TASK 210:

SUBSURFACE SITE INVESTIGATION REPORT

Southington Maintenance Facility
Southington, Connecticut

ConnDOT Assignment No. 214-5199
ConnDOT Project No. 0131-0205

Prepared for:

State of Connecticut
Department of Transportation
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1.0 INTRODUCTION

On behalf of the Connecticut Department of Transportation (ConnDOT), CDR Group Inc. (CDRG) conducted a Task 210 – Subsurface Site Investigation Report (SSIR) in association with ConnDOT Project 0131-0205, Southington Maintenance Facility Renovation in Southington, Connecticut, herein referred to as the "Site" (See Figure 1 – Site Location Plan).

The ConnDOT is proposing renovations at the Southington Maintenance Facility which include; construction of an addition and renovations to the existing building; site improvements consisting of additional parking, modifications/improvements to site drainage, repaving the entire site, site lighting, sewer and utility improvements; and removal of existing underground storage tanks (USTs) and fuel island, to be replaced with new above ground storage tanks (ASTs). This Task 210 - SSIR was conducted in areas of anticipated construction activities for the proposed Site renovations. Figure 1 depicts the project area.

The purpose of this Task 210 – Subsurface Site Investigation Report is to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts to be encountered during construction of the proposed maintenance facility renovations at the Site. It is anticipated that Task 310 – Plans, Specifications and Estimate will subsequently be prepared to assess construction related activities (i.e. proper storage, classification, transport and disposal of contaminated materials), in relationship to the environmental conditions prevalent within the project limits, as well as to specify remedial work to be included in the Contract Bid Documents.

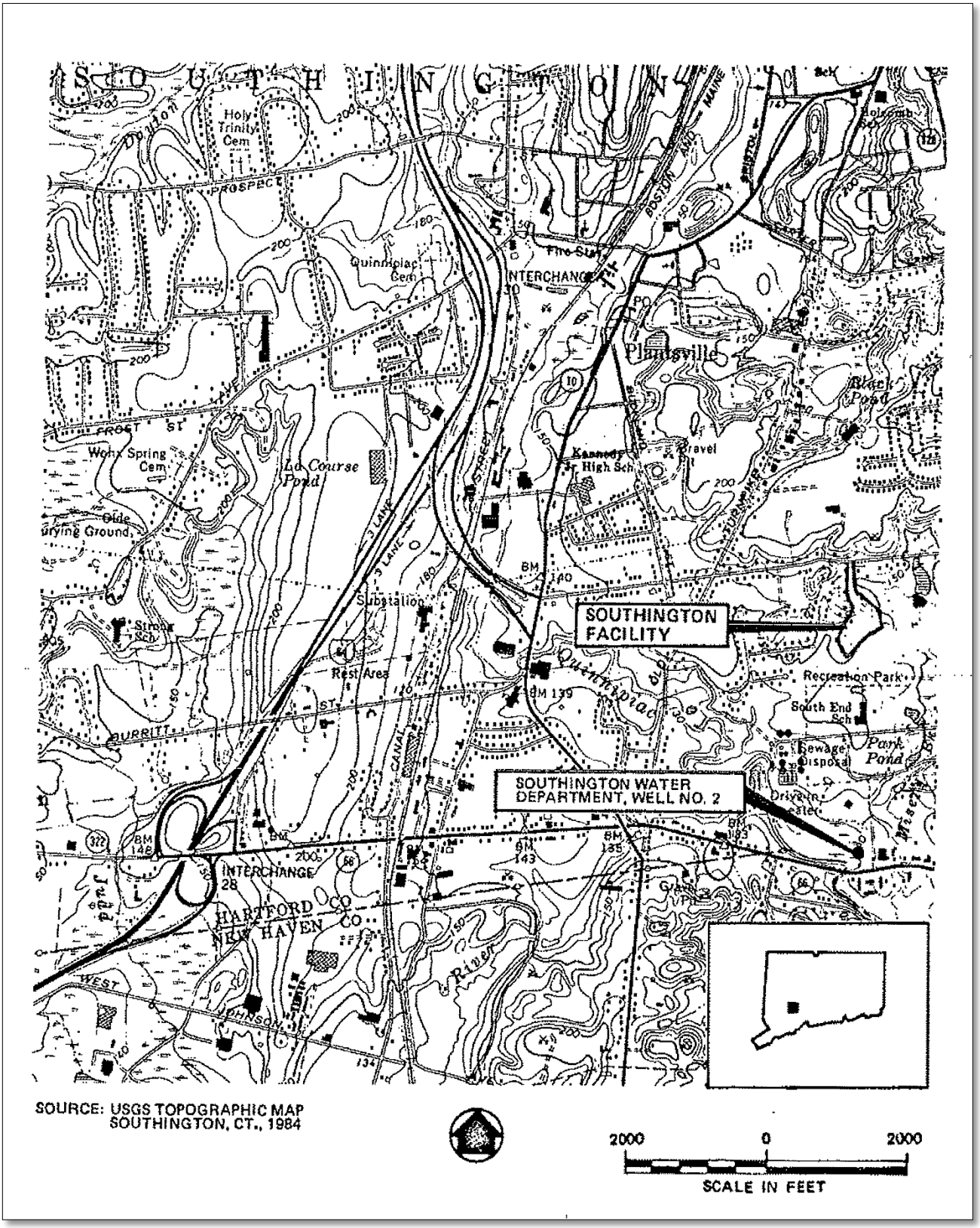

FIGURE 1 - SITE LOCATION PLAN
Southington Maintenance Facility
467 Mulberry Street
Southington, Connecticut

2.0 SITE DESCRIPTION

2.1 Background

ConnDOT is proposing renovations to the Southington Maintenance Facility located at 467 Mulberry Street in Southington, CT. The proposed activities at the Site will include construction of an addition onto the maintenance building near the fuel island and site improvements which include additional parking spaces; new fencing and gates; drainage and utility improvements; removal of the existing gasoline and diesel underground storage tanks (USTs), fuel island and associated piping; and removal/replacement of the oil/water separator. The USTs will be replaced with two (2) above ground storage tanks (ASTs). The existing heating oil UST will also be removed from the Site and will not be replaced since natural gas is available on Mulberry Street. This Task 210 - Subsurface Site Investigation was conducted in areas of anticipated construction activities for the proposed renovations at the Site.

Properties adjacent to the Site include residential and commercial properties. The site area and boring locations are shown on Figure 2 - Task 210: Subsurface Site Investigation Report, Boring Location Plan included at the end of this Report.

3.0 LOCAL ENVIRONMENT & RECEPTORS

3.1 Geology

The Bedrock Geological Map of Connecticut compiled by John Rodgers in 1985 indicates that the Site is underlain by the New Haven Arkose, conglomeratic arkose and siltstone. The CTDEEP's August 2009 Surficial Materials Glacial and Postglacial Deposits, Southington, Connecticut map indicates that the soil underlying the Site consists of stratified drift, sand and gravel with trace silt.

3.2 Hydrogeology

The November 2015 CTDEEP's Water Quality Classifications map for Southington indicates that the groundwater beneath the project area has a GA classification. This classification indicates that groundwater is suitable for direct human consumption without treatment. The State's goal is to maintain the groundwater quality. The project area is located within the Quinnipiac River Basin within the Quinnipiac Regional Basin within the South Central Coast Major Drainage Basin. There are no surface water bodies located on the Site.

4.0 SUBSURFACE INVESTIGATION

Based upon the proposed renovation/construction activities at the Southington Maintenance Facility, a comprehensive sampling program was conducted at the Site. The following subsections detail the investigation that was conducted on December 17 and December 18, 2015.

4.1 Geoprobe® Soil Borings & Soil Sample Analyses

Eighteen (18) borings, GP-1 to GP-18, were advanced to a depth of 4-feet or 10-feet or refusal within the project limits, utilizing a Geoprobe direct push unit. The Geoprobe® borings were advanced by Logical Environmental Solutions, LLC under the direction of CDRG and laboratory analyses were conducted by Phoenix Environmental Laboratories, Inc.

The boring locations GP-1 to GP-18 are depicted on Figure 2 at the end of this Report. Soil samples were collected continuously to 4-feet or 10-feet below grade utilizing a 4-foot long 2-inch diameter Macro Core Sampler with dedicated acetate liners. Groundwater samples were collected according to the procedures detailed in Section 4.2 of this Report.

The soil samples were visually inspected in the field for staining, and were described as to physical characteristics and soil type. Soil boring logs were generated in the field by the on-site qualified technician. In addition, the soil samples were screened in the field for total volatile organic compounds using a Photovac photoionization detector (PID). Copies of the boring logs are included at the end of this report in Appendix A.

Based upon field screening results and visual observations, one (1) soil sample from each boring was placed in laboratory-supplied glassware and stored in an ice-filled cooler. If visual screening did not indicate contamination, the subsurface sample, directly above the water table or 8 to 10-feet below grade, was collected from borings GP-1 to GP-8 adjacent the Site USTs, and the surficial soil sample, 2 to 4-feet below grade, was collected for laboratory analyses from borings GP-9 to GP-18.

All soil samples collected as part of this Task 210-SSIR were analyzed for the following parameters:

- Extractable Total Petroleum Hydrocarbons – CT-ETPH Method
- Volatile Organic Compounds – EPA Method 8260
- Semi-Volatile Organic Compounds - EPA Method 8270
- Total and TCLP RCRA 8 metals – EPA Method SW846

Field sampling protocols were performed in accordance with the CTDEEP's Guidance for Collecting & Preserving Soil & Sediment Samples for Laboratory Determination of Volatile Organic Compounds document dated March 1, 2006.

All Geoprobe® soil borings were backfilled upon completion utilizing clean sand and/or hydrated bentonite. Borings located within paved areas were completed with cold patch following backfilling. All down-hole sampling equipment was decontaminated in the field between each use utilizing an Alconox and water bath and de-ionized rinse.

4.2 Groundwater Sample Collection & Analyses

Two (2) groundwater grab samples, GW-1 and GW-2, were collected from two existing monitor wells on the site. The groundwater grab samples were collected by inserting one-half inch diameter, schedule 40, 10-slot, PVC well screen and riser casing into the borehole. The well screen was temporarily installed approximately 4 feet into the observed water table depth. Dedicated polyethylene tubing was placed into the temporary well and the groundwater grab sample was drawn through the tubing using a low-flow peristaltic pump.

The groundwater samples were analyzed for VOCs (EPA Method 8260) and ETPH (CT-ETPH Method) only due to poor groundwater recharge on-site.

4.3 Project Quality Assurance/Quality Control Practices

The CTDEEP's Quality Assurance and Quality Control (QA/QC) Guidance was used to ensure that the analytical results generated during the investigation are of known and appropriate quality. Specifically, the Laboratory Quality Assurance Control Reasonable Confidence Protocols (RCPs) were utilized for all laboratory analytical methods. The Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation (DQA/DUE) Guidance were utilized to ensure that the analytical data used are of known and sufficient level of quality for the intended purpose. See Section 5.4 of this report for a discussion of the QA/QC procedures and data usability evaluation.

5.0 DISCUSSION OF SAMPLE RESULTS

5.1 Regulatory Criteria

The CTDEEP has amended the Remediation Standard Regulations (Regulations of Connecticut State Agencies, Section 22a-133k-1 to 3 and 22a-133q-1) effective June 27, 2013. The Remediation Standard Regulations (RSRs) apply to any action which is required pursuant to Chapter 445, 446k or section 22a-208(c)(2) of the General Statutes, including but not limited to any such action required to be taken or verified by a licensed environmental professional. The Regulations also outline the processes for establishing alternative site-specific numerical standards for certain sites and criterion for additional polluting substances not specified in the RSRs, upon approval by the CTDEEP. When a contaminant at a site is not one of the 88 substances listed in the RSRs or a different numeric criteria other than listed in the RSRs is believed to be appropriate for a site, a request for approval of an "Additional Polluting Substance (APS) criteria or Alternative Criteria (AC) must be submitted to the CTDEEP on Form "DEEP-REM-FASTAPS".

The RSRs criteria applicable to the soil and groundwater sampled during this investigation are summarized below. The application of these RSRs to the results of the laboratory analyses from this investigation are discussed in subsections 5.2 and 5.3 of this section.

Soils Criteria: The RSRs are organized into two sets of criteria: the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC). The DEC and PMC are briefly explained in the following sub-sections, in relation to how they would be applicable to the types of analyses conducted on the soil samples collected for this investigation. Please refer to the RSRs for a complete explanation of the Regulations.

Direct Exposure Criteria

The purpose of the Direct Exposure Criteria (DEC) is to protect human health from risks associated with the direct contact with or ingestion of various common soil contaminants. The DEC are applicable to soil within approximately fifteen (15) feet of the ground surface. Concentrations of contaminants are evaluated based upon mass-based analyses and different criteria are established for residential and industrial/commercial properties. The use of the less

stringent commercial/industrial standards requires the placement of an environmental land use restriction on the property.

The DEC for substances other than PCBs do not apply to "inaccessible" soil at a release area provided that such soil is less than 15-feet below the ground surface and an Environmental Land Use Restriction (ELUR) is in effect with respect to the subject parcel or to the portion of such parcel containing such release area.

Public Act No. 13-308 allows for the placement of Notice of Activity and Use Limitation (Notice AUL), also known as a "Deed Notice" to reach a site cleanup endpoint in lieu of the more cumbersome ELUR.

The DEC do not apply to metals, petroleum hydrocarbons or semi-volatile substances in soil provided such pollution is the result of: an incidental release due to the normal operation of motor vehicles, not including refueling, repair or maintenance of a motor vehicle; or normal paving and maintenance of a consolidated bituminous concrete surface provided such bituminous concrete surface has been maintained for its intended purpose.

Pollutant Mobility Criteria

The purpose of the Pollutant Mobility Criteria (PMC) is to evaluate the potential for contaminants to leach from the soil in concentrations that may degrade groundwater quality.

The PMC do not apply to "environmentally isolated" soil at a release area provided that an Environmental Land Use Restriction (ELUR) is in effect with respect to the subject parcel or to the portion of such parcel containing such release area. The PMC do not apply to polluted fill on a parcel if the fill meets the requirements of section 22a-133k-2(c)(4)(B)(i) through (vi). The PMC do not apply to substances, other than volatile substances, in soil at a release area provided that the release area meets the requirements of section 22a-133k-2(c)(4)(C)(i) through (v).

The PMC do not apply to metals, petroleum hydrocarbons or semi-volatile substances in soil provided such pollution is the result of: an incidental release due to the normal operation of motor

vehicles, not including refueling, repair or maintenance of a motor vehicle; or normal paving and maintenance of a consolidated bituminous concrete surface provided such bituminous concrete surface has been maintained for its intended purpose.

Different numerical criteria are established for GA and GAA groundwater areas, versus GB groundwater areas. Since the project borings were advanced in a GA groundwater area, the more stringent criteria applies to the project.

Groundwater Criteria: Contaminants in the groundwater are compared either to background quality or the Groundwater Protection Criteria (GWPC), the Volatilization Criteria (VC), as well as the Surface Water Protection Criteria (SWPC). However, ConnDOT has had numerous discussions with CTDEEP staff with regard to groundwater encountered during "Construction Projects" and the applicability of the RSRs to these situations. Based on the guidance provided by CTDEEP, groundwater samples collected for "Construction Projects" were compared to the effluent limits for the ***"General Permit for the Discharge of Groundwater Remediation Wastewater Directly to Surface Water"*** (GP to Surface Water) and the ***"General Permit for the Discharge of Groundwater Remediation Wastewater Directly to Sanitary Sewer"*** (GP to Sanitary Sewer) to determine if Groundwater Areas of Environmental Concern (GW AOECs) exist within the project limits.

5.2 Results of Soil Sample Analyses

Extractable Total Petroleum Hydrocarbons (ETPH)

ETPH was detected above analytical detection limits in two (2) of the eighteen (18) soil samples collected as part of this Task 210 – SSIR. ETPH was detected in soil sample GP-17 2-4 FT at a concentration of 1,200 mg/kg which exceeds the RDEC and GA-PMC of 500 mg/kg for ETPH but is below the I/C-DEC of 2,500 mg/kg. The concentration of ETPH present in soil sample GP-10 2-4 FT (190 mg/kg) does not exceed any applicable RSR criteria. ETPH was not present at concentrations above analytical detection limits (ND) in any other soil samples collected as part of this Task 210.

Volatile Organic Compounds (VOCs)

No VOCs were detected above analytical detection limits in any of the eighteen (18) soil samples collected as part of this Task 210 – SSIR.

Semi-Volatile Organic Compounds (SVOCs)

Various SVOCs were detected above analytical detection limits but below any applicable RSR criteria in soil samples collected from borings GP-14 2-4 FT, GP-15 2-4 FT and GP-18 2-4 FT. No SVOCs were detected above analytical detection limits in any of the remaining fifteen (15) soil samples collected as part of this Task 210 – SSIR.

RCRA Metals

Various total metals were detected in the soil samples at concentrations above analytical detection limits but below the applicable RSR criteria. No total metals were present in the soil samples at concentrations above the applicable RSR criteria.

Leachable barium was detected at various levels in all of the soil samples at concentrations above analytical detection limits but below the applicable RSR criteria. Leachable chromium was detected in soil samples GP-10 2-4 FT at a concentration of 0.023 mg/L which is below the GA PMC of 0.05 mg/L. Leachable lead was detected in soil sample GP-14 2-4 FT at a concentration of 0.046 mg/L which exceeds the GA PMC of 0.015 mg/L. No other leachable metals were present in the soil samples at concentrations above the laboratory detection limits.

5.3 Results of Groundwater Sample Analyses

The results of the laboratory analyses of groundwater sample GW-1 indicated the presence of Toluene at a concentration of 1.3 ug/L and Total Xylenes at a concentration of 1.4 ug/L. The results of the laboratory analyses of groundwater sample GW-2 indicated the presence of Toluene at a concentration of 3.6 ug/L and Total Xylenes at a concentration of 4.8 ug/L. An effluent limit has not been established by the DEEP for Toluene or Total Xylenes. The total VOCs detected in

the groundwater samples were below the GP to surface and sanitary sewer effluent limits. No other VOCs were detected in the groundwater samples GW-1 and GW-2 at concentrations above analytical detection limits. ETPH was not detected above analytical detection limits (ND) in groundwater samples GW-1 and GW-2.

5.4 Data Quality Assessment and Data Usability Evalualtion (DQA/DUE)

Eighteen (18) soil samples and two (2) groundwater samples were collected from within the project limits and submitted to a state-certified analytical laboratory for analyses using the CTDEEP Reasonable Confidence Protocols (RCPs) established for VOCs, SVOCs, ETPH, and metals. The samples were collected to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts to be encountered during the construction activities for ConnDOT Project 0131-0205, Southington Maintenance Facility Renovation in Southington, Connecticut.

A data quality assessment and a data usability evaluation was performed for the data generated in accordance with DEEP guidance and noted the following quality control non-conformances. Copies of the DQA and DUE worksheets are included in Appendix C.

Non-conformances related to LCS/LCSD RPD, MS/MSD surrogates and method blanks do not have significant bearing on the accuracy and usability of the data for its intended uses. In all cases the non-conformances had no impact on the data usability and the data is of sufficient quality and precision for its intended use based on multiple lines of evidence.

Based on the above findings from the DQA and DUE, the analytical data is of adequate quality and of sufficient accuracy, precision and sensitivity to confirm that contaminants of concern are present in the soil at concentrations exceeding the DEEP RSRs. Task 310 Plans, Specifications and Estimate will be required to assess construction related activities (i.e. proper storage, classification, transport and disposal of contaminated materials), in relationship to the environmental conditions prevalent within the project limits, as well as to specify remedial work to be included in the Contract Bid Documents.

6.0 DISCUSSION OF AFFECTED RESOURCES

Based upon the results of the laboratory analyses performed on soil and groundwater samples for this Task 210 investigation, two (2) locations within the project limits have been designated Areas of Environmental Concern (AOECs) for soil where ETPH and leachable lead were detected at concentrations exceeding the applicable RSR criteria. In addition, three (3) Low Level Areas of Environmental Concern (LLAOECs) for soil have been designated within the project limits where contaminants are present at concentrations above analytical detection limits but below the applicable criteria. No groundwater areas of environmental concern (GW-AOEC) have been designated within the project limits.

6.1 Areas of Environmental Concern (AOECs)

AOEC-1, Boring GP-14 2-4 FT

Analytical results from the soil sample collected from boring GP-14 2-4 FT indicated the presence of leachable lead in soil at a concentration above the applicable CTDEEP RSR criteria. In addition, the analytical results indicated the presence of SVOCs in soil at concentrations above analytical detection limit but below the applicable CTDEEP RSR criteria. The contaminants were detected in the soil sample collected at a depth of 2 to 4-feet below grade.

AOEC-2, Boring GP-17 2-4 FT

Analytical results from the soil sample collected from boring GP-17 2-4 FT indicated the presence of ETPH in soil at a concentration above the applicable CTDEEP RSR criteria. The contaminant was detected in the soil sample collected at a depth of 2 to 4-feet below grade.

6.2 Low Level Areas of Environmental Concern (LLAOECs)

LLAOEC-A, Boring GP-10 2-4 FT

Analytical results from the soil sample collected from boring GP-10 2-4 FT indicated the presence of ETPH in soil at a concentration above analytical detection limit but below the applicable CTDEEP RSR criteria. The contaminant was detected in the soil sample collected at a depth of 2 to 4-feet below grade.

LLAOEC-B, Boring GP-15 2-4 FT

Analytical results from the soil sample collected from boring GP-15 2-4 FT indicated the presence of SVOCs in soil at concentrations above analytical detection limit but below the applicable CTDEEP RSR criteria. The contaminants were detected in the soil sample collected at a depth of 2 to 4-feet below grade.

LLAOEC-C, Boring GP-18 2-4 FT

Analytical results from the soil sample collected from boring GP-18 2-4 FT indicated the presence of SVOCs in soil at concentrations above analytical detection limit but below the applicable CTDEEP RSR criteria. The contaminants were detected in the soil sample collected at a depth of 2 to 4-feet below grade.

7.0 RECOMMENDATIONS

The results of the Task 210 – Subsurface Site Investigation Report prepared in association with construction activities for ConnDOT Project 0131-0205, Southington Maintenance Facility Renovation in Southington, Connecticut indicated the presence of ETPH and leachable lead at concentrations exceeding the applicable RSR criteria in soils at locations within the project limits. Two (2) Areas of Environmental Concern (AOECs) for soil have been designated within the project limits. In addition, three (3) Low Level Areas of Environmental Concern (LLAOECs) for soil have been designated within the project limits where contaminants are present at concentrations above analytical detection limits but below the applicable criteria.

Special considerations for the management, storage, and disposal of contaminated soil, and worker health and safety must be given to construction activities within the project limits in order to ensure compliance with all applicable local, State and Federal laws, regulations and guidance. Task 310 Plans, Specifications, and Estimate are therefore, recommended for the project for the management and disposal of controlled materials and worker health and safety.

8.0 LIMITATIONS

All work product and reports provided by CDR Group Inc. in connection with the performance of this Task 210 - Subsurface Site Investigation Report are subject to the following limitations:

1. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services provided to ConnDOT.

2. In preparing this report, CDR Group has relied on certain information provided by State and local officials and information and representations made by other parties referenced therein, and on information contained in the files of State and/or local agencies made available to CDR Group at the time of this investigation. To the extent that such files are missing, incomplete or not provided to CDR Group, CDR Group is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, CDR Group did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this investigation.

3. The conclusions and recommendations contained in this report are based in part upon the data from subsurface explorations. The nature and extent of variations between these explorations may not become evident until further explorations are completed. If variations or other latent conditions become evident, it will be necessary to re-evaluate the conclusions and recommendations of this report.

4. The water level readings made for this investigation were made at the times and conditions stated on the boring logs. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, passage of time and other factors. Should additional data become available in the future, these data should be reviewed by CDR Group, and the conclusions and recommendations presented herein modified accordingly.

5. Where quantitative laboratory analyses have been conducted by an outside certified laboratory, CDR Group has relied upon the data provided, and has evaluated the data in accordance with CTDEEP DQA/DUE Guidance, but has not conducted an independent evaluation of the reliability of these tests.

6. If the conclusions and recommendations contained in this report are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data have been reviewed and interpretations made in the report. It should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by CDR Group and the conclusions and recommendations presented herein modified accordingly.

7. Chemical analyses were performed for specific parameters during the course of this investigation, as described in the text. However, it should be noted that testing for all known chemical constituents was not performed. The conclusions and recommendations contained in this report are based only upon the chemical constituents for which testing was accomplished.

The following qualifications apply to the undersigned's opinion:

The activities described and opinions included herein are based on information gathered during this subsurface site investigation, which was limited in scope in adherence to the terms of our agreement. The professional opinion provided herein is based on the information described in this report.

The information contained herein was prepared for the use of ConnDOT solely in conjunction with the task descriptions for this assignment. The conclusions and recommendations set forth in this report are based on site conditions at the time of the investigation. Future studies and findings could change the contents of this report. The professional opinions presented in this report have been developed by using that degree of care and skill ordinarily exercised, under similar

circumstances, by reputable environmental engineering consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional opinions included in this report.

Prepared by:	Reviewed by:	Approved by:
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FIGURES

Southington Maintenance Facility
Task 210 - Subsurface Site Investigation Report
Figure 2 - Boring Location Plan

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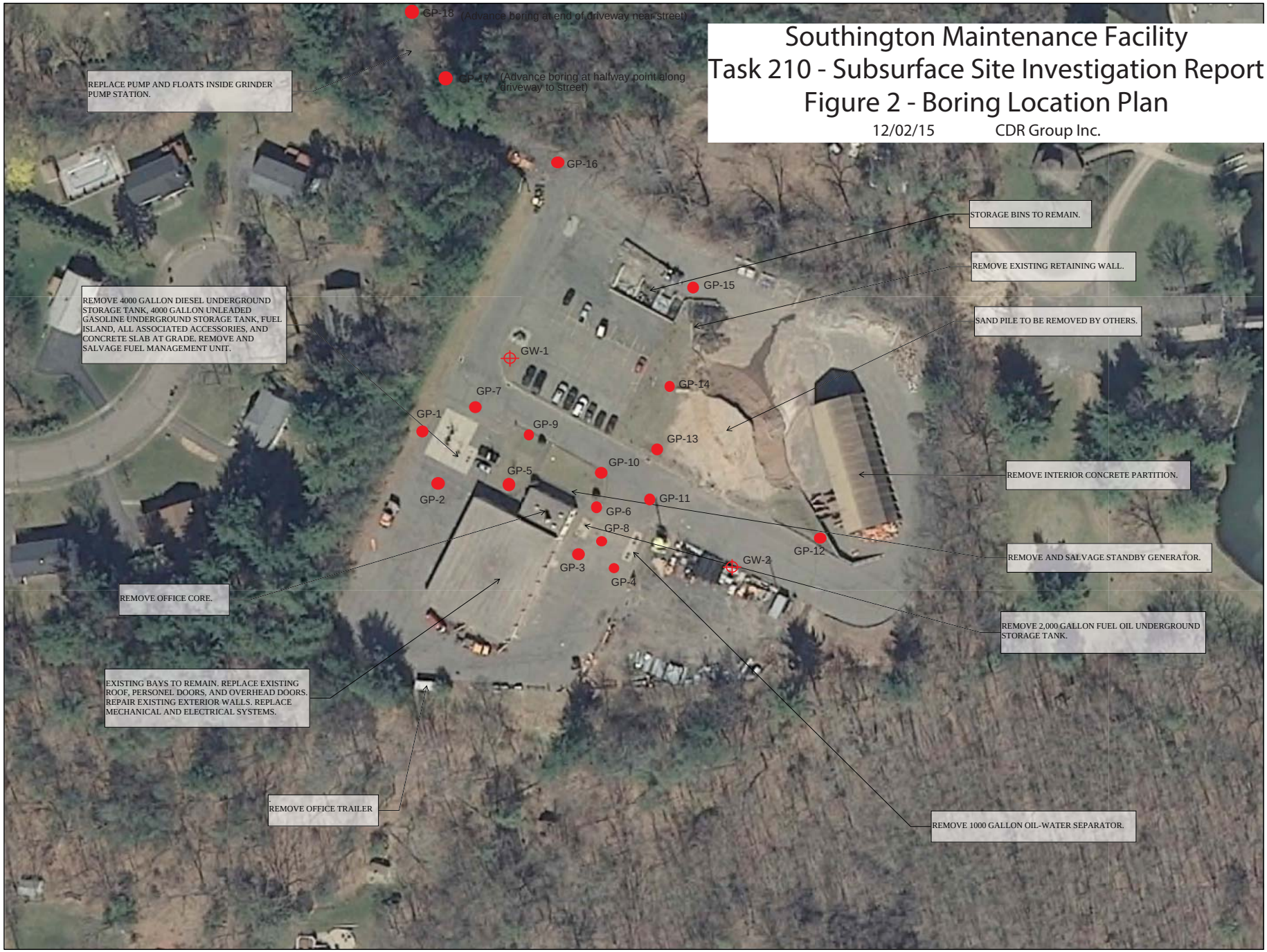

TABLES

TABLE 1(a) - Results of Geoprobe® Boring Soil Sample Analyses
Southington Maintenance Facility Renovation
Southington, Connecticut

Boring I.D.: Sample Depth: Sample Date:	GP-1 8-10 FT 8'-10' 12/18/15	GP-2 8-10 FT 8'-10' 12/18/15	GP-3 8-10 FT 8'-10' 12/17/15	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
CT ETPH - (mg/kg)	ND	ND	ND	500 mg/kg	500/2,500 mg/kg
VOCs - Method 8260 (mg/kg)	ND	ND	ND	Varies	Varies
SVOCs - Method 8270 (mg/kg	ND	ND	ND	Varies	Varies
Total RCRA 8 Metals - (mg/kg)				Not Applicable	
Arsenic	<1.0	1.0	<0.9		10/10 mg/kg
Barium	27.9	33.2	29.5		4,700/140,000 mg/kg
Cadmium	<0.48	<0.45	<0.45		34/1,000 mg/kg
Chromium	9.28	8.91	8.27		3,900/51,000 mg/kg
Lead	5.46	5.07	3.50		400/1,000 mg/kg
Mercury	<0.03	<0.03	<0.03		20/610 mg/kg
Selenium	<1.9	<1.8	<1.8		340/10,000 mg/kg
Silver	<0.48	<0.45	<0.45		340/10,000 mg/kg
TCLP RCRA 8 Metals - (mg/L)					Not Applicable
Arsenic	<0.01	<0.01	<0.01	0.05 mg/L	
Barium	0.29	0.39	0.21	1.0 mg/L	
Cadmium	<0.005	<0.005	<0.005	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	<0.010	<0.010	<0.010	0.015 mg/L	
Mercury	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.01	<0.01	<0.01	0.05 mg/L	
Silver	<0.010	<0.010	<0.010	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(b) - Results of Geoprobe® Boring Soil Sample Analyses
Southington Maintenance Facility Renovation
Southington, Connecticut

Boring I.D.: Sample Depth: Sample Date:	GP-4 8-10 FT 8'-10' 12/17/15	GP-5 2-4 FT 2'-4' 12/18/15	GP-6 8-10 FT 8'-10' 12/17/15	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
CT ETPH - (mg/kg)	ND	ND	ND	500 mg/kg	500/2,500 mg/kg
VOCs - Method 8260 (mg/kg)	ND	ND	ND	Varies	Varies
SVOCs - Method 8270 (mg/kg)	ND	ND	ND	Varies	Varies
Total RCRA 8 Metals - (mg/kg)				Not Applicable	
Arsenic	<1.0	1.4	<1.0		10/10 mg/kg
Barium	29.7	41.6	25.3		4,700/140,000 mg/kg
Cadmium	<0.52	<0.50	<0.48		34/1,000 mg/kg
Chromium	10.1	12.7	8.33		3,900/51,000 mg/kg
Lead	4.17	5.25	4.54		400/1,000 mg/kg
Mercury	<0.03	<0.03	<0.03		20/610 mg/kg
Selenium	<2.1	<2.0	<1.9		340/10,000 mg/kg
Silver	<0.52	<0.50	<0.48		340/10,000 mg/kg
TCLP RCRA 8 Metals - (mg/L)					Not Applicable
Arsenic	<0.01	<0.01	<0.01	0.05 mg/L	
Barium	0.21	0.34	0.20	1.0 mg/L	
Cadmium	<0.005	<0.005	<0.005	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	<0.010	<0.010	<0.010	0.015 mg/L	
Mercury	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.01	<0.01	<0.01	0.05 mg/L	
Silver	<0.010	<0.010	<0.010	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(c) - Results of Geoprobe® Boring Soil Sample Analyses
Southington Maintenance Facility Renovation
Southington, Connecticut

Boring I.D.: Sample Depth: Sample Date:	GP-7 8-10 FT 8'-10' 12/18/15	GP-8 8-10 FT 8'-10' 12/17/15	GP-9 2-4 FT 2'-4' 12/18/15	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
CT ETPH - (mg/kg)	ND	ND	ND	500 mg/kg	500/2,500 mg/kg
VOCs - Method 8260 (mg/kg)	ND	ND	ND	Varies	Varies
SVOCs - Method 8270 (mg/kg)	ND	ND	ND	Varies	Varies
Total RCRA 8 Metals - (mg/kg)				Not Applicable	
Arsenic	1.4	<1.1	<1.0		10/10 mg/kg
Barium	34.7	31.5	26.5		4,700/140,000 mg/kg
Cadmium	<0.46	<0.55	<0.49		34/1,000 mg/kg
Chromium	12.1	9.32	9.77		3,900/51,000 mg/kg
Lead	5.76	3.89	5.47		400/1,000 mg/kg
Mercury	<0.03	<0.03	<0.03		20/610 mg/kg
Selenium	<1.8	<2.2	<2.0		340/10,000 mg/kg
Silver	<0.46	<0.55	<0.49		340/10,000 mg/kg
TCLP RCRA 8 Metals - (mg/L)					Not Applicable
Arsenic	<0.01	<0.01	<0.01	0.05 mg/L	
Barium	0.26	0.30	0.26	1.0 mg/L	
Cadmium	<0.005	<0.005	<0.005	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	<0.010	<0.010	<0.010	0.015 mg/L	
Mercury	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.01	<0.01	<0.01	0.05 mg/L	
Silver	<0.010	<0.010	<0.010	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(d) - Results of Geoprobe® Boring Soil Sample Analyses
Southington Maintenance Facility Renovation
Southington, Connecticut

Boring I.D.: Sample Depth: Sample Date:	GP-10 2-4 FT 2'-4' 12/17/15	GP-11 2-4 FT 2'-4' 12/18/15	GP-12 2-4 FT 2'-4' 12/17/15	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
CT ETPH - (mg/kg)	190	ND	ND	500 mg/kg	500/2,500 mg/kg
VOCs - Method 8260 (mg/kg)	ND	ND	ND	Varies	Varies
SVOCs - Method 8270 (mg/kg)	ND	ND	ND	Varies	Varies
Total RCRA 8 Metals - (mg/kg)				Not Applicable	
Arsenic	<0.9	<1.0	<1.0		10/10 mg/kg
Barium	57.6	23.8	17.3		4,700/140,000 mg/kg
Cadmium	<0.47	<0.49	<0.48		34/1,000 mg/kg
Chromium	15.1	8.78	6.55		3,900/51,000 mg/kg
Lead	5.56	4.19	2.69		400/1,000 mg/kg
Mercury	<0.03	<0.03	<0.03		20/610 mg/kg
Selenium	<1.9	<2.0	<1.9		340/10,000 mg/kg
Silver	<0.47	<0.49	<0.48		340/10,000 mg/kg
TCLP RCRA 8 Metals - (mg/L)					Not Applicable
Arsenic	<0.01	<0.01	<0.01	0.05 mg/L	
Barium	0.70	0.27	0.19	1.0 mg/L	
Cadmium	<0.005	<0.005	<0.005	0.005 mg/L	
Chromium	0.023	<0.010	<0.010	0.05 mg/L	
Lead	<0.010	<0.010	<0.010	0.015 mg/L	
Mercury	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.01	<0.01	<0.01	0.05 mg/L	
Silver	<0.010	<0.010	<0.010	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(e) - Results of Geoprobe® Boring Soil Sample Analyses
Southington Maintenance Facility Renovation
Southington, Connecticut

Boring I.D.: Sample Depth: Sample Date:	GP-13 2-4 FT 2'-4' 12/17/15	GP-14 2-4 FT 2'-4' 12/17/15	GP-15 2-4 FT 2'-4' 12/18/15	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
CT ETPH - (mg/kg)	ND	ND	ND	500 mg/kg	500/2,500 mg/kg
VOCs - Method 8260 (mg/kg)	ND	ND	ND	Varies	Varies
SVOCs - Method 8270 (mg/kg)					
Benz(a)anthracene	ND	0.31	ND	1 mg/kg	1/7.8 mg/kg
Benzo(a)pyrene	ND	0.37	0.28	1 mg/kg	1/1 mg/kg
Benzo(b)fluoranthene	ND	0.34	0.28	1 mg/kg	1/7.8 mg/kg
Benzo(k)fluoranthene	ND	0.36	0.33	1 mg/kg	8.4/78 mg/kg
Chrysene	ND	0.41	0.29	1 mg/kg	84/780 mg/kg
Fluoranthene	ND	0.55	0.43	5.6 mg/kg	1,000/2,500 mg/kg
Pyrene	ND	0.54	0.41	4 mg/kg	1,000/2,500 mg/kg
Total SVOCs	ND	2.88	2.02		
Total RCRA 8 Metals - (mg/kg)				Not Applicable	
Arsenic	<1.0	1.7	1.0		10/10 mg/kg
Barium	19.9	25.1	24.4		4,700/140,000 mg/kg
Cadmium	<0.50	<0.37	<0.46		34/1,000 mg/kg
Chromium	9.65	9.41	9.34		3,900/51,000 mg/kg
Lead	16.6	24.9	8.47		400/1,000 mg/kg
Mercury	0.04	<0.03	<0.03		20/610 mg/kg
Selenium	<2.0	<1.5	<1.8		340/10,000 mg/kg
Silver	<0.50	<0.37	<0.46		340/10,000 mg/kg
TCLP RCRA 8 Metals - (mg/L)					Not Applicable
Arsenic	<0.01	<0.01	<0.01	0.05 mg/L	
Barium	0.13	0.18	0.18	1.0 mg/L	
Cadmium	<0.005	<0.005	<0.005	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	<0.010	***0.046***	<0.010	***0.015 mg/L***	
Mercury	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.01	<0.01	<0.01	0.05 mg/L	
Silver	<0.010	<0.010	<0.010	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(f) - Results of Geoprobe® Boring Soil Sample Analyses
Southington Maintenance Facility Renovation
Southington, Connecticut

Boring I.D.: Sample Depth: Sample Date:	GP-16 2-4 FT 2'-4' 12/18/15	GP-17 2-4 FT 2'-4' 12/18/15	GP-18 2-4 FT 2'-4' 12/18/15	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
CT ETPH - (mg/kg)	ND	***1,200***	ND	***500 mg/kg***	***500***/2,500 ***mg/kg***
VOCs - Method 8260 (mg/kg)	ND	ND	ND	Varies	Varies
SVOCs - Method 8270 (mg/kg)					
Fluoranthene	ND	ND	0.34	5.6 mg/kg	1,000/2,500 mg/kg
Pyrene	ND	ND	0.34	4 mg/kg	1,000/2,500 mg/kg
Total SVOCs	ND	ND	0.68		
Total RCRA 8 Metals - (mg/kg)				Not Applicable	
Arsenic	<0.9	1.9	<1.0		10/10 mg/kg
Barium	9.78	21.3	27.8		4,700/140,000 mg/kg
Cadmium	<0.44	<0.72	0.51		34/1,000 mg/kg
Chromium	8.24	18.8	12.8		3,900/51,000 mg/kg
Lead	4.62	14.1	26.7		400/1,000 mg/kg
Mercury	<0.03	<0.04	0.06		20/610 mg/kg
Selenium	<1.8	<2.9	<1.9		340/10,000 mg/kg
Silver	<0.44	<0.72	<0.48		340/10,000 mg/kg
TCLP RCRA 8 Metals - (mg/L)					Not Applicable
Arsenic	<0.01	<0.01	<0.01	0.05 mg/L	
Barium	0.09	0.13	0.13	1.0 mg/L	
Cadmium	<0.005	<0.005	<0.005	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	<0.010	<0.010	<0.010	0.015 mg/L	
Mercury	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.01	<0.01	<0.01	0.05 mg/L	
Silver	<0.010	<0.010	<0.010	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2 - Results of Groundwater Grab Sample Analyses
Southington Maintenance Facility Renovation
Southington, Connecticut

Sample I.D.: Depth to GW (ft. below grade) Sample Date:	GW-1 20' 12/18/15	GW-2 20' 12/18/15	CTDEEP GP to "A" Surface Water Effluent Limits	CTDEEP GP to Sanitary Sewer Effluent Limits
CT ETPH (mg/L)	ND	ND	5 mg/L	100 mg/L
VOCs - Method 8260 (ug/L)				
Toluene	1.4	3.6	NE	NE
Total Xylenes	1.3	4.8	NE	NE
Total VOCs	2.7	8.4	10 ug/L	5,000 ug/L

ND – Not Detected (see laboratory reports for compound specific detection limits)

NE – None Established

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 3(a) - Results of QA/QC Sample Ana lyses
Trip Blank Sample
Southington Maintenance Facility Renovation
Southington, Connecticut

Sample I.D.:	TB-LOW	TB-HIGH	TB
Matrix:	Soil	Soil	Water
Sample Date:	12/17/15	12/17/15	12/18/15
VOCs – EPA Method 8260	ND	ND	ND

TABLE 3(b) - Results of QA/QC Sample Analyses
Field Blank Sample
Southington Maintenance Facility Renovation
Southington, Connecticut

Sample I.D.:	FB-1
Matrix:	Water
Sample Date:	12/17/15
CT ETPH (ug/L)	ND
VOCs - Method 8260 (ug/L)	ND
SVOCs - Method 8270 (ug/L)	ND
Total RCRA 8 Metals –mg/L	ND
Dissolved RCRA 8 Metals –mg/L	ND

ND - Not Detected at a concentration exceeding the laboratory's detection limit (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

APPENDIX A – BORING LOGS

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-1
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown SILT, trace fine Sand & Organics	-0.3		
1.0					
2.0				0	Macro Core 0'-5'
3.0					
4.0					
5.0		Red-Brown fine SAND, little Silt			
6.0					
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0			-10.0		
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-2
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 3"	-0.3		
		Red-Brown fine to medium SAND, little Cobble	-1.0		
1.0, 2.0, 3.0, 4.0		Red-Brown fine SAND, little Silt	-5.0	0	Macro Core 0'-5'
5.0		Gray-Brown fine GRAVEL (PEASTONE)	-6.0		
6.0, 7.0, 8.0, 9.0		Red-Brown fine SAND, little Silt	-10.0	0	Macro Core 5'-10'
10.0, 11.0, 12.0		End of Boring at 10'			

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-3
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 10"	-0.8		
1.0					
2.0				0	Macro Core 0'-5'
3.0					
4.0					
5.0		Red-Brown fine to medium SAND, trace Silt with seams of Silty Sand			
6.0					
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0			-10.0		
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-4
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 10"	-0.8		
1.0					
2.0				0	Macro Core 0'-5'
3.0					
4.0					
5.0		Red-Brown fine to medium SAND, trace Silt with seams of Silty Sand			
6.0					
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0			-10.0		
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-5
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown SILT, trace fine Sand & Organics	-0.3		
1.0		Red-Brown fine SAND, trace Silt			
2.0				0.2	Macro Core 0'-5'
3.0			-3.0		
		Red-Brown Silty SAND			
4.0			-4.0		
5.0					
6.0					
7.0		Red-Brown fine SAND, trace Silt			
8.0				0	Macro Core 5'-10'
9.0					
10.0			-10.0		
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility	**Boring:** GP-6
Location: Mulberry Street, Southington, CT	**Inspector:** P. Griswold
Client: CDR Group Inc.	**Date:** 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		ASPHALT - 3"	-0.3		
1.0		Gray medium to coarse BASALT			
2.0			-2.0		
3.0				0	Macro Core 0'-5'
4.0					
5.0					
6.0		Red-Brown fine to medium SAND, little fine to coarse Gravel, trace Silt			
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0			-10.0		
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight	**Depth to Water:** Dry	**Boring Dia.:** 2"
Rig: Geoprobe 540U	**Boring Depth:** 10'	**Page:** 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-7
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 4"	-0.3		
		Red-Brown fine to medium SAND	-1.0		
1.0					
2.0					
				0	Macro Core 0'-5'
3.0					
4.0					
		Red-Brown fine to medium SAND, little Silt			
5.0					
6.0					
7.0					
				0	Macro Core 5'-10'
8.0			-8.5		
9.0		Red-Brown SILT, trace fine Sand			
10.0			-10.0		
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-8
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 10"	-0.8		
1.0		Red-Brown fine to medium SAND, trace Silt with seams of Silty Sand	-2.0		
2.0				0	Macro Core 0'-5'
3.0		Gray-Brown fine GRAVEL (PEASTONE)			
4.0			-5.0		
5.0					
6.0					
7.0		Red-Brown fine to medium SAND, trace Silt with seams of Silty Sand		0	Macro Core 5'-10'
8.0					
9.0			-10.0		
10.0					
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-9
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown SILT, trace fine Sand & Organics	-0.3		
		ASPHALT Fragments	-0.7		
1.0					
2.0				0	Macro Core 0'-5'
3.0					
4.0					
5.0		Red-Brown fine to coarse SAND, trace Silt			
6.0					
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0			-10.0		
11.0		End of Boring at 10'			
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-10
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		ASPHALT - 3"	-0.3		
1.0		Gray medium to coarse BASALT			
2.0			-2.0		
3.0		Red-Brown fine to medium SAND, little fine to coarse Gravel, trace Silt		0	Macro Core 0'-5'
4.0					
5.0			-5.0		
6.0					
7.0		End of Boring at 5'			
8.0					
9.0					
10.0					
11.0					
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-11
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 3"	-0.3		
1.0 2.0 3.0 4.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	-5.0	0	Macro Core 0'-5'
5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0		End of Boring at 5'			

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-12
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		ASPHALT - 10"	-0.8		
1.0		Gray fine to medium GRAVEL mixed with fine Sand, trace Silt (ROAD BASE)	-1.5		
2.0				0	Macro Core 0'-5'
3.0		Red-Brown fine SAND, trace Silt & fine Gravel			
4.0					
5.0			-5.0		
6.0					
7.0		End of Boring at 5'			
8.0					
9.0					
10.0					
11.0					
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-13
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown fine to medium SAND, little Silt, trace Organics	-0.3		
1.0, 2.0, 3.0, 4.0, 5.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	-5.0	0	Macro Core 0'-5'
6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0		End of Boring at 5'			

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-14
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-17-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown fine SAND, little Silt, trace Organics	-0.4		
1.0 2.0 3.0 4.0		Red-Brown fine SAND, trace Silt & fine Gravel	-5.0	0	Macro Core 0'-5'
5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0		End of Boring at 5'			

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-15
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Brown fine to medium SAND & GRAVEL, trace Silt	-0.5		
1.0 2.0 3.0 4.0 5.0		Red-Brown fine to medium SAND, little Silt, trace fine Gravel	-5.0	0	Macro Core 0'-5'
6.0 7.0 8.0 9.0 10.0 11.0 12.0		End of Boring at 5'			

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-16
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown fine SAND, little Silt, trace Organics	-0.3		
1.0 2.0 3.0 4.0		Red-Brown fine SAND, trace Silt & medium to coarse Sand	-5.0	0	Macro Core 0'-5'
5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0		End of Boring at 5'			

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-17
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown fine SAND, little Silt, trace Organics	-0.3		
		ASPHALT	-0.6		
1.0		Gray medium to coarse GRAVEL (ROADBASE)			
2.0			-2.0		
3.0		Red-Brown fine SAND, little Silt		0	Macro Core 0'-5'
4.0					
5.0			-5.0		
6.0		End of Boring at 5'			
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: CTDOT Maintenance Facility
Boring: GP-18
Location: Mulberry Street, Southington, CT
Inspector: P. Griswold
Client: CDR Group Inc.
Date: 12-18-15

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown fine SAND, little Silt, trace Organics	-0.3		
		Red-Brown fine SAND, little Silt	-1.0		
1.0					
2.0					
3.0		Red-Brown fine to coarse SAND, trace fine to coarse Gravel & Cobble		0	Macro Core 0'-5'
4.0					
5.0			-5.0		
6.0		End of Boring at 5'			
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

Driller: C. Knight
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

APPENDIX B – LABORATORY REPORTS

PHOENIX
Environmental Laboratories, Inc.

Thursday, December 24, 2015

Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Sample ID#s: BK41407 - BK41419

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

December 24, 2015

SDG I.D.: GBK41407

Volatile 8260 analysis:
The reporting level for Acrylonitrile is above the GWP criteria.
1,2-Dibromoethane does not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	7:15
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41407

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-18 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	1	12/19/15	LK	SW6010C
Arsenic	< 1.0	1.0	mg/Kg	1	12/19/15	LK	SW6010C
Barium	27.8	0.48	mg/Kg	1	12/19/15	LK	SW6010C
Cadmium	0.51	0.48	mg/Kg	1	12/19/15	LK	SW6010C
Chromium	12.8	0.48	mg/Kg	1	12/19/15	LK	SW6010C
Mercury	0.06	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	26.7	0.48	mg/Kg	1	12/19/15	LK	SW6010C
Selenium	< 1.9	1.9	mg/Kg	1	12/19/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	LK	SW6010C
TCLP Barium	0.13	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	89		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	55	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-18 2-4 FT

Phoenix I.D.: BK41407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	90		%	1	12/21/15	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	90		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-18 2-4 FT

Phoenix I.D.: BK41407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	750	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	340	260	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-18 2-4 FT

Phoenix I.D.: BK41407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	340	260	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	76		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	45		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	56		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	61		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	7:30
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41408

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-17 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.72	0.72	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	1.9	1.4	mg/Kg	1	12/21/15	LK	SW6010C
Barium	21.3	0.72	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.72	0.72	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	18.8	0.72	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.04	0.04	mg/Kg	1	12/22/15	RS	SW7471B
Lead	14.1	0.72	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 2.9	2.9	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Barium	0.13	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	62		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	1200	400	mg/Kg	5	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-17 2-4 FT

Phoenix I.D.: BK41408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	**		mg/Kg	5	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	88		%	5	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	7.8	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	65	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	65	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	650	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	7.8	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	78	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	13	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	89		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	370	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-17 2-4 FT

Phoenix I.D.: BK41408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	850	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	1100	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-17 2-4 FT

Phoenix I.D.: BK41408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	530	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	58		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	51		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	40		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	54		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	48		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	46		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C26 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	7:45
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41409

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-16 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	< 0.9	0.9	mg/Kg	1	12/21/15	LK	SW6010C
Barium	9.78	0.44	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.44	0.44	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	8.24	0.44	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	4.62	0.44	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	LK	SW6010C
TCLP Barium	0.09	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	91		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	55	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-16 2-4 FT

Phoenix I.D.: BK41409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	91		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-16 2-4 FT

Phoenix I.D.: BK41409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	710	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-16 2-4 FT

Phoenix I.D.: BK41409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	77		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	52		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	65		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	68		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	8:00
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41410

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-15 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.46	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	1.0	0.9	mg/Kg	1	12/21/15	LK	SW6010C
Barium	24.4	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.46	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	9.34	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	8.47	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Barium	0.18	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	87		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	56	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-15 2-4 FT

Phoenix I.D.: BK41410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	39	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	39	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	390	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	47	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	7.9	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	90		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-15 2-4 FT

Phoenix I.D.: BK41410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	280	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	280	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	330	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	750	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	290	260	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	430	260	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-15 2-4 FT

Phoenix I.D.: BK41410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	410	260	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	49		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	61		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	65		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	7:05
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41411

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-11 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.49	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	< 1.0	1.0	mg/Kg	1	12/21/15	LK	SW6010C
Barium	23.8	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.49	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	8.78	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	4.19	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Barium	0.27	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	94		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	53	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-11 2-4 FT

Phoenix I.D.: BK41411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	12/21/15	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	22	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	220	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	2.6	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.8	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	8.8	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.8	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.8	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	4.4	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	90		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-11 2-4 FT

Phoenix I.D.: BK41411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	700	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-11 2-4 FT

Phoenix I.D.: BK41411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	240	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	73		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	52		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	63		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	71		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	8:30
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41412

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-9 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.49	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	< 1.0	1.0	mg/Kg	1	12/21/15	LK	SW6010C
Barium	26.5	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.49	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	9.77	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	5.47	0.49	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Barium	0.26	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	93		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	53	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-9 2-4 FT

Phoenix I.D.: BK41412

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-9 2-4 FT

Phoenix I.D.: BK41412

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	700	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-9 2-4 FT

Phoenix I.D.: BK41412

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	65		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	52		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	38		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	51		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	46		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	62		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	9:00
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41413

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-7 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.46	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	1.4	0.9	mg/Kg	1	12/21/15	LK	SW6010C
Barium	34.7	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.46	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	12.1	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	5.76	0.46	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Barium	0.26	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	89		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	56	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-7 8-10 FT

Phoenix I.D.: BK41413

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	36	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	36	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	360	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	43	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	7.2	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-7 8-10 FT

Phoenix I.D.: BK41413

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	750	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-7 8-10 FT

Phoenix I.D.: BK41413

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	66		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	49		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	59		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	71		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	9:30
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41414

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-5 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	1.4	1.0	mg/Kg	1	12/21/15	LK	SW6010C
Barium	41.6	0.50	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.50	0.50	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	12.7	0.50	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	5.25	0.50	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Barium	0.34	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	w/W	SW3005A
Percent Solid	85		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	57	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-5 2-4 FT

Phoenix I.D.: BK41414

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.7	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	37	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	6.2	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	101		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-5 2-4 FT

Phoenix I.D.: BK41414

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	780	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-5 2-4 FT

Phoenix I.D.: BK41414

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	390	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	78		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	51		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	63		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	77		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	10:05
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41415

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-2 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	1.0	0.9	mg/Kg	1	12/21/15	LK	SW6010C
Barium	33.2	0.45	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.45	0.45	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	8.91	0.45	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	5.07	0.45	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Barium	0.39	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	91		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	54	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-2 8-10 FT

Phoenix I.D.: BK41415

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	61		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	101		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-2 8-10 FT

Phoenix I.D.: BK41415

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	710	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-2 8-10 FT

Phoenix I.D.: BK41415

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	360	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	66		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	42		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	58		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	53		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	64		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		12/18/15	11:00
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41416

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-1 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	1	12/21/15	LK	SW6010C
Arsenic	< 1.0	1.0	mg/Kg	1	12/21/15	LK	SW6010C
Barium	27.9	0.48	mg/Kg	1	12/21/15	LK	SW6010C
Cadmium	< 0.48	0.48	mg/Kg	1	12/21/15	LK	SW6010C
Chromium	9.28	0.48	mg/Kg	1	12/21/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	12/22/15	RS	SW7471B
Lead	5.46	0.48	mg/Kg	1	12/21/15	LK	SW6010C
Selenium	< 1.9	1.9	mg/Kg	1	12/21/15	LK	SW6010C
TCLP Silver	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/21/15	LK	SW6010C
TCLP Barium	0.29	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/21/15	EK	SW6010C
TCLP Chromium	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/21/15	MA	SW7470A
TCLP Lead	< 0.010	0.010	mg/L	1	12/21/15	EK	SW6010C
TCLP Selenium	< 0.01	0.01	mg/L	1	12/21/15	EK	SW6010C
TCLP Metals Digestion	Completed				12/21/15	W/W	SW3005A
Percent Solid	94		%		12/18/15	LK	SW846-%Solid
Soil Extraction for SVOA	Completed				12/18/15	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/18/15	BC/K	SW3545A
Mercury Digestion	Completed				12/21/15	W/W	SW7471B
TCLP Digestion Mercury	Completed				12/21/15	W/W	SW7470A
TCLP Extraction for Metals	Completed				12/18/15	W	SW1311
Total Metals Digest	Completed				12/18/15	G/G/AG	SW3050B
Field Extraction	Completed				12/18/15		SW5035A

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	52	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-1 8-10 FT

Phoenix I.D.: BK41416

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	58		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	21	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	21	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	210	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	2.6	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.5	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	8.5	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.5	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.5	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	4.3	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-1 8-10 FT

Phoenix I.D.: BK41416

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	12/19/15	DD	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Aniline	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzidine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Benzoic acid	ND	700	ug/Kg	1	12/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Carbazole	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	12/19/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-1 8-10 FT

Phoenix I.D.: BK41416

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	12/19/15	DD	SW8270D
Pyridine	ND	350	ug/Kg	1	12/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	50		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	51		%	1	12/19/15	DD	30 - 130 %
% 2-Fluorophenol	48		%	1	12/19/15	DD	30 - 130 %
% Nitrobenzene-d5	51		%	1	12/19/15	DD	30 - 130 %
% Phenol-d5	49		%	1	12/19/15	DD	30 - 130 %
% Terphenyl-d14	64		%	1	12/19/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/15	11:45
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41417

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GW-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				12/18/15	T	SW3510C/SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	12/19/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	12/19/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GW-1

Phoenix I.D.: BK41417

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Acetone	ND	25	ug/L	1	12/19/15	MH	SW8260C
Acrylonitrile	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Benzene	ND	0.70	ug/L	1	12/19/15	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
m&p-Xylene	1.3	1.0	ug/L	1	12/19/15	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Styrene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/19/15	MH	SW8260C
Toluene	1.4	1.0	ug/L	1	12/19/15	MH	SW8260C
Total Xylenes	1.3	1.0	ug/L	1	12/19/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GW-1

Phoenix I.D.: BK41417

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	12/19/15	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	12/19/15	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	12/19/15	MH	70 - 130 %
% Toluene-d8	100		%	1	12/19/15	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/18/15	12:00
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41418

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GW-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				12/18/15	T	SW3510C/SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	12/19/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	104		%	1	12/19/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GW-2

Phoenix I.D.: BK41418

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Acetone	ND	25	ug/L	1	12/19/15	MH	SW8260C
Acrylonitrile	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Benzene	ND	0.70	ug/L	1	12/19/15	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
m&p-Xylene	3.4	1.0	ug/L	1	12/19/15	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
o-Xylene	1.4	1.0	ug/L	1	12/19/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Styrene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/19/15	MH	SW8260C
Toluene	3.6	1.0	ug/L	1	12/19/15	MH	SW8260C
Total Xylenes	4.8	1.0	ug/L	1	12/19/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GW-2

Phoenix I.D.: BK41418

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	12/19/15	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	12/19/15	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	12/19/15	MH	70 - 130 %
% Toluene-d8	98		%	1	12/19/15	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 24, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 24, 2015

FOR: Attn: Jane Witherelll
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/18/15	
Location Code:	MAGU-DAS	Received by:	SW	12/18/15	12:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK41407
Phoenix ID: BK41419

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: TB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	12/19/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: TB

Phoenix I.D.: BK41419

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	12/19/15	MH	SW8260C
Acrylonitrile	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Benzene	ND	0.70	ug/L	1	12/19/15	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	12/19/15	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Styrene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/19/15	MH	SW8260C
Toluene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/19/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/19/15	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	12/19/15	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	12/19/15	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	12/19/15	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	12/19/15	MH	70 - 130 %

Project ID: SOUTHINGTON MAINTENANCE FACILITY

Client ID: TB

Phoenix I.D.: BK41419

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99		%	1	12/19/15	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

December 24, 2015

Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 24, 2015

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 330144 (mg/L), QC Sample No: BK40693 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	102	104	1.9	102	103	1.0	70 - 130	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 330081 (mg/kg), QC Sample No: BK41407 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)													
ICP Metals - Soil													
Arsenic	BRL	0.87	<1.0	<0.98	NC	78.8	82.1	4.1	94.3	75.8	21.8	75 - 125	30
Barium	BRL	0.43	27.8	26.1	6.30	85.1	86.6	1.7	87.9	88.1	0.2	75 - 125	30
Cadmium	BRL	0.43	0.51	0.50	NC	79.4	79.7	0.4	78.4	80.1	2.1	75 - 125	30
Chromium	BRL	0.43	12.8	11.8	8.10	87.0	90.8	4.3	86.9	89.4	2.8	75 - 125	30
Lead	BRL	0.7	26.7	28.5	6.50	84.1	85.9	2.1	80.5	82.4	2.3	75 - 125	30
Selenium	BRL	1.7	<1.9	<2.0	NC	93.7	106	12.3	95.1	88.6	7.1	75 - 125	30
Silver	BRL	0.43	<0.48	<0.49	NC	86.2	89.8	4.1	86.6	87.7	1.3	75 - 125	30
QA/QC Batch 330139 (mg/L), QC Sample No: BK41407 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415)													
ICP Metals - TCLP Extraction													
Arsenic	BRL	0.01	0.01	<0.01	NC	108	110	1.8	108	108	0.0	75 - 125	20
Barium	BRL	0.01	0.13	0.12	8.00	96.0	97.9	2.0	93.9	94.1	0.2	75 - 125	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	100	101	1.0	101	99.9	1.1	75 - 125	20
Chromium	BRL	0.010	<0.010	<0.010	NC	100	101	1.0	99.4	98.8	0.6	75 - 125	20
Lead	BRL	0.010	<0.010	<0.010	NC	99.1	101	1.9	99.7	99.2	0.5	75 - 125	20
Selenium	BRL	0.01	<0.01	<0.01	NC	113	115	1.8	114	114	0.0	75 - 125	20
Silver	BRL	0.010	<0.010	<0.010	NC	108	110	1.8	106	105	0.9	75 - 125	20
QA/QC Batch 330189 (mg/kg), QC Sample No: BK41407 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)													
Mercury - Soil	BRL	0.06	0.06	0.06	NC	99.1	95.9	3.3	98.2	94.2	4.2	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 330140 (mg/L), QC Sample No: BK41416 (BK41416)													
ICP Metals - TCLP Extraction													
Arsenic	BRL	0.01	0.01	<0.01	NC	109	106	2.8	106	108	1.9	75 - 125	20
Barium	BRL	0.01	0.29	0.30	3.40	96.8	95.7	1.1	94.2	96.4	2.3	75 - 125	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	99.1	96.5	2.7	98.3	98.2	0.1	75 - 125	20
Chromium	BRL	0.010	<0.010	<0.010	NC	100	97.5	2.5	99.1	99.1	0.0	75 - 125	20
Lead	BRL	0.010	<0.010	<0.010	NC	99.0	96.7	2.4	97.6	98.4	0.8	75 - 125	20
Selenium	BRL	0.01	<0.01	<0.01	NC	115	112	2.6	112	113	0.9	75 - 125	20
Silver	BRL	0.010	<0.010	<0.010	NC	110	107	2.8	108	109	0.9	75 - 125	20
QA/QC Batch 330145 (mg/L), QC Sample No: BK41473 (BK41416)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	103	102	1.0	106	104	1.9	70 - 130	20

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

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QA/QC Report

December 24, 2015

QA/QC Data

SDG I.D.: GBK41407

QA/QC Batch 330205 (ug/L), QC Sample No: BK41330 (BK41417, BK41418, BK41419)

Volatiles - Ground Water

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	1.0	105	109	3.7				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	104	110	5.6				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	97	105	7.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	104	110	5.6				70 - 130	30
1,1-Dichloroethane	ND	1.0	96	103	7.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	113	119	5.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	105	110	4.7				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	105	110	4.7				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	100	103	3.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	104	110	5.6				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	96	102	6.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	105	112	6.5				70 - 130	30
1,2-Dibromoethane	ND	1.0	107	113	5.5				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	97	102	5.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	106	109	2.8				70 - 130	30
1,2-Dichloropropane	ND	1.0	102	108	5.7				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	96	101	5.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	97	102	5.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	101	105	3.9				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	95	101	6.1				70 - 130	30
2,2-Dichloropropane	ND	1.0	90	94	4.3				70 - 130	30
2-Chlorotoluene	ND	1.0	94	99	5.2				70 - 130	30
2-Hexanone	ND	5.0	91	97	6.4				70 - 130	30
2-Isopropyltoluene	ND	1.0	98	103	5.0				70 - 130	30
4-Chlorotoluene	ND	1.0	92	97	5.3				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	102	109	6.6				70 - 130	30
Acetone	ND	5.0	100	114	13.1				70 - 130	30
Acrylonitrile	ND	5.0	113	120	6.0				70 - 130	30
Benzene	ND	0.70	99	105	5.9				70 - 130	30
Bromobenzene	ND	1.0	97	101	4.0				70 - 130	30
Bromochloromethane	ND	1.0	104	109	4.7				70 - 130	30
Bromodichloromethane	ND	0.50	107	115	7.2				70 - 130	30
Bromoform	ND	1.0	113	119	5.2				70 - 130	30
Bromomethane	ND	1.0	107	114	6.3				70 - 130	30
Carbon Disulfide	ND	1.0	105	110	4.7				70 - 130	30
Carbon tetrachloride	ND	1.0	104	112	7.4				70 - 130	30
Chlorobenzene	ND	1.0	100	103	3.0				70 - 130	30
Chloroethane	ND	1.0	102	109	6.6				70 - 130	30
Chloroform	ND	1.0	98	104	5.9				70 - 130	30
Chloromethane	ND	1.0	95	98	3.1				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	99	105	5.9				70 - 130	30

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	0.40	103	107	3.8				70 - 130	30
Dibromochloromethane	ND	0.50	114	115	0.9				70 - 130	30
Dibromomethane	ND	1.0	104	109	4.7				70 - 130	30
Dichlorodifluoromethane	ND	1.0	121	128	5.6				70 - 130	30
Ethylbenzene	ND	1.0	99	104	4.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	102	108	5.7				70 - 130	30
Isopropylbenzene	ND	1.0	93	98	5.2				70 - 130	30
m&p-Xylene	ND	1.0	98	102	4.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	101	111	9.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	105	112	6.5				70 - 130	30
Methylene chloride	ND	1.0	125	129	3.1				70 - 130	30
Naphthalene	ND	1.0	107	120	11.5				70 - 130	30
n-Butylbenzene	ND	1.0	96	101	5.1				70 - 130	30
n-Propylbenzene	ND	1.0	91	96	5.3				70 - 130	30
o-Xylene	ND	1.0	99	104	4.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	98	104	5.9				70 - 130	30
sec-Butylbenzene	ND	1.0	97	102	5.0				70 - 130	30
Styrene	ND	1.0	103	108	4.7				70 - 130	30
tert-Butylbenzene	ND	1.0	94	100	6.2				70 - 130	30
Tetrachloroethene	ND	1.0	99	105	5.9				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	97	108	10.7				70 - 130	30
Toluene	ND	1.0	98	104	5.9				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	100	105	4.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	106	110	3.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	93	101	8.2				70 - 130	30
Trichloroethene	ND	1.0	100	106	5.8				70 - 130	30
Trichlorofluoromethane	ND	1.0	100	106	5.8				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	111	117	5.3				70 - 130	30
Vinyl chloride	ND	1.0	109	114	4.5				70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	100	100	0.0				70 - 130	30
% Bromofluorobenzene	97	%	104	103	1.0				70 - 130	30
% Dibromofluoromethane	99	%	98	98	0.0				70 - 130	30
% Toluene-d8	100	%	99	99	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 330583 (ug/kg), QC Sample No: BK41411 (BK41407, BK41408, BK41409, BK41410, BK41411)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	104	103	1.0	97	96	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	104	101	2.9	95	96	1.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	99	98	1.0	91	91	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	101	102	1.0	97	97	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	105	104	1.0	98	98	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	106	105	0.9	97	98	1.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	109	108	0.9	105	103	1.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	94	112	17.5	82	83	1.2	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	89	88	1.1	83	81	2.4	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	87	108	21.5	80	80	0.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	107	4.8	95	96	1.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	98	101	3.0	90	91	1.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	99	100	1.0	95	93	2.1	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	98	104	5.9	88	89	1.1	70 - 130	30

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloroethane	ND	5.0	98	100	2.0	92	88	4.4	70 - 130	30	
1,2-Dichloropropane	ND	5.0	108	108	0.0	102	100	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	104	107	2.8	97	98	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	94	103	9.1	87	88	1.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	97	99	2.0	93	91	2.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	96	104	8.0	87	88	1.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	101	103	2.0	93	93	0.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	102	105	2.9	96	97	1.0	70 - 130	30	
2-Hexanone	ND	25	91	91	0.0	82	79	3.7	70 - 130	30	
2-Isopropyltoluene	ND	5.0	106	107	0.9	95	95	0.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	97	101	4.0	89	89	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	95	96	1.0	91	86	5.6	70 - 130	30	
Acetone	ND	10	81	84	3.6	70	69	1.4	70 - 130	30	m
Acrylonitrile	ND	5.0	97	97	0.0	89	86	3.4	70 - 130	30	
Benzene	ND	1.0	107	106	0.9	103	102	1.0	70 - 130	30	
Bromobenzene	ND	5.0	101	103	2.0	95	94	1.1	70 - 130	30	
Bromochloromethane	ND	5.0	101	101	0.0	96	94	2.1	70 - 130	30	
Bromodichloromethane	ND	5.0	106	107	0.9	98	96	2.1	70 - 130	30	
Bromoform	ND	5.0	102	100	2.0	89	89	0.0	70 - 130	30	
Bromomethane	ND	5.0	110	107	2.8	98	100	2.0	70 - 130	30	
Carbon Disulfide	ND	5.0	104	103	1.0	95	96	1.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	105	104	1.0	95	96	1.0	70 - 130	30	
Chlorobenzene	ND	5.0	102	103	1.0	96	96	0.0	70 - 130	30	
Chloroethane	ND	5.0	111	110	0.9	101	101	0.0	70 - 130	30	
Chloroform	ND	5.0	97	97	0.0	91	91	0.0	70 - 130	30	
Chloromethane	ND	5.0	121	124	2.4	117	115	1.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	106	106	0.0	100	100	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	103	107	3.8	97	95	2.1	70 - 130	30	
Dibromochloromethane	ND	3.0	107	107	0.0	97	95	2.1	70 - 130	30	
Dibromomethane	ND	5.0	102	103	1.0	96	93	3.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	152	155	2.0	151	151	0.0	70 - 130	30	l,m
Ethylbenzene	ND	1.0	104	105	1.0	100	99	1.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	111	8.5	84	76	10.0	70 - 130	30	
Isopropylbenzene	ND	1.0	106	105	0.9	99	99	0.0	70 - 130	30	
m&p-Xylene	ND	2.0	101	104	2.9	98	97	1.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	88	89	1.1	77	74	4.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	92	93	1.1	85	84	1.2	70 - 130	30	
Methylene chloride	ND	5.0	101	102	1.0	99	98	1.0	70 - 130	30	
Naphthalene	ND	5.0	106	118	10.7	100	98	2.0	70 - 130	30	
n-Butylbenzene	ND	1.0	102	112	9.3	93	91	2.2	70 - 130	30	
n-Propylbenzene	ND	1.0	104	105	1.0	96	96	0.0	70 - 130	30	
o-Xylene	ND	2.0	104	105	1.0	99	98	1.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	107	112	4.6	98	97	1.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	109	110	0.9	98	97	1.0	70 - 130	30	
Styrene	ND	5.0	101	103	2.0	94	93	1.1	70 - 130	30	
tert-Butylbenzene	ND	1.0	107	106	0.9	97	97	0.0	70 - 130	30	
Tetrachloroethene	ND	5.0	108	110	1.8	106	104	1.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	90	90	0.0	88	84	4.7	70 - 130	30	
Toluene	ND	1.0	108	107	0.9	103	102	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	110	113	2.7	109	110	0.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	100	103	3.0	91	90	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	98	103	5.0	88	87	1.1	70 - 130	30	
Trichloroethene	ND	5.0	106	106	0.0	103	102	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichlorofluoromethane	ND	5.0	108	107	0.9	98	97	1.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	107	106	0.9	97	97	0.0	70 - 130	30
Vinyl chloride	ND	5.0	123	123	0.0	113	115	1.8	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	101	102	1.0	70 - 130	30
% Bromofluorobenzene	96	%	98	98	0.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	103	%	99	104	4.9	102	103	1.0	70 - 130	30
% Toluene-d8	91	%	103	103	0.0	104	103	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 330586 (ug/kg), QC Sample No: BK41413 (BK41412, BK41413, BK41414, BK41415, BK41416)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	102	111	8.5	97	96	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	99	107	7.8	99	96	3.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	111	121	8.6	109	103	5.7	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	100	112	11.3	100	98	2.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	98	107	8.8	98	95	3.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	98	106	7.8	102	98	4.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	105	114	8.2	107	106	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	99	106	6.8	98	95	3.1	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	105	117	10.8	105	101	3.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	96	101	5.1	98	93	5.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	103	111	7.5	104	100	3.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	107	123	13.9	98	95	3.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	108	118	8.8	104	100	3.9	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	101	109	7.6	101	96	5.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	102	112	9.3	99	97	2.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	101	110	8.5	100	98	2.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	105	112	6.5	105	101	3.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	99	108	8.7	101	96	5.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	104	115	10.0	102	97	5.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	100	107	6.8	100	96	4.1	70 - 130	30
2,2-Dichloropropane	ND	5.0	92	104	12.2	93	91	2.2	70 - 130	30
2-Chlorotoluene	ND	5.0	104	114	9.2	107	103	3.8	70 - 130	30
2-Hexanone	ND	25	98	107	8.8	92	90	2.2	70 - 130	30
2-Isopropyltoluene	ND	5.0	107	116	8.1	108	104	3.8	70 - 130	30
4-Chlorotoluene	ND	5.0	100	109	8.6	103	98	5.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	99	112	12.3	96	95	1.0	70 - 130	30
Acetone	ND	10	78	85	8.6	94	93	1.1	70 - 130	30
Acrylonitrile	ND	5.0	102	110	7.5	96	92	4.3	70 - 130	30
Benzene	ND	1.0	103	112	8.4	103	103	0.0	70 - 130	30
Bromobenzene	ND	5.0	110	115	4.4	107	99	7.8	70 - 130	30
Bromochloromethane	ND	5.0	103	111	7.5	100	95	5.1	70 - 130	30
Bromodichloromethane	ND	5.0	103	114	10.1	98	97	1.0	70 - 130	30
Bromoform	ND	5.0	100	112	11.3	85	87	2.3	70 - 130	30
Bromomethane	ND	5.0	93	96	3.2	90	87	3.4	70 - 130	30
Carbon Disulfide	ND	5.0	99	106	6.8	100	99	1.0	70 - 130	30
Carbon tetrachloride	ND	5.0	93	103	10.2	90	92	2.2	70 - 130	30
Chlorobenzene	ND	5.0	101	111	9.4	103	97	6.0	70 - 130	30
Chloroethane	ND	5.0	99	102	3.0	93	96	3.2	70 - 130	30
Chloroform	ND	5.0	98	107	8.8	99	95	4.1	70 - 130	30
Chloromethane	ND	5.0	99	103	4.0	97	96	1.0	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	101	109	7.6	101	97	4.0	70 - 130	30

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	5.0	98	108	9.7	95	94	1.1	70 - 130	30	
Dibromochloromethane	ND	3.0	104	116	10.9	96	93	3.2	70 - 130	30	
Dibromomethane	ND	5.0	102	111	8.5	101	97	4.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	97	103	6.0	110	108	1.8	70 - 130	30	
Ethylbenzene	ND	1.0	103	111	7.5	104	102	1.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	111	8.5	102	99	3.0	70 - 130	30	
Isopropylbenzene	ND	1.0	105	116	10.0	108	103	4.7	70 - 130	30	
m&p-Xylene	ND	2.0	102	111	8.5	103	99	4.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	93	101	8.2	95	88	7.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	101	112	10.3	101	97	4.0	70 - 130	30	
Methylene chloride	ND	5.0	96	102	6.1	134	120	11.0	70 - 130	30	m
Naphthalene	ND	5.0	112	123	9.4	110	104	5.6	70 - 130	30	
n-Butylbenzene	ND	1.0	99	107	7.8	103	100	3.0	70 - 130	30	
n-Propylbenzene	ND	1.0	101	110	8.5	104	100	3.9	70 - 130	30	
o-Xylene	ND	2.0	103	111	7.5	103	99	4.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	105	114	8.2	106	103	2.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	108	117	8.0	110	106	3.7	70 - 130	30	
Styrene	ND	5.0	105	113	7.3	104	99	4.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	107	115	7.2	107	103	3.8	70 - 130	30	
Tetrachloroethene	ND	5.0	99	108	8.7	101	100	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	100	111	10.4	101	97	4.0	70 - 130	30	
Toluene	ND	1.0	100	110	9.5	103	100	3.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	99	109	9.6	102	99	3.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	101	110	8.5	96	95	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	106	117	9.9	99	95	4.1	70 - 130	30	
Trichloroethene	ND	5.0	101	111	9.4	102	103	1.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	95	100	5.1	96	97	1.0	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	93	102	9.2	97	97	0.0	70 - 130	30	
Vinyl chloride	ND	5.0	98	103	5.0	101	99	2.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	100	101	1.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	98	%	98	99	1.0	100	99	1.0	70 - 130	30	
% Dibromofluoromethane	98	%	100	102	2.0	101	102	1.0	70 - 130	30	
% Toluene-d8	100	%	100	101	1.0	99	100	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 330065 (mg/Kg), QC Sample No: BK41416 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

TPH by GC (Extractable Products) - Solid

Unidentified	ND	50	64			76	66	14.1	60 - 120	30
% n-Pentacosane	73	%	75			87	78	10.9	50 - 150	30

QA/QC Batch 330062 (ug/Kg), QC Sample No: BK41416 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

Semivolatiles - Solid

1,2,4,5-Tetrachlorobenzene	ND	230	69	71	2.9	68			30 - 130	30
1,2,4-Trichlorobenzene	ND	230	67	68	1.5	73			30 - 130	30
1,2-Dichlorobenzene	ND	180	53	55	3.7	55			30 - 130	30
1,2-Diphenylhydrazine	ND	230	71	80	11.9	72			30 - 130	30
1,3-Dichlorobenzene	ND	230	55	54	1.8	54			30 - 130	30
1,4-Dichlorobenzene	ND	230	52	53	1.9	52			30 - 130	30
2,4,5-Trichlorophenol	ND	230	78	83	6.2	78			30 - 130	30
2,4,6-Trichlorophenol	ND	130	73	77	5.3	77			30 - 130	30
2,4-Dichlorophenol	ND	130	75	79	5.2	76			30 - 130	30

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4-Dimethylphenol	ND	230	64	70	9.0	65			30 - 130	30	
2,4-Dinitrophenol	ND	230	11	<10	NC	39			30 - 130	30	l
2,4-Dinitrotoluene	ND	130	73	77	5.3	72			30 - 130	30	
2,6-Dinitrotoluene	ND	130	77	80	3.8	72			30 - 130	30	
2-Chloronaphthalene	ND	230	68	73	7.1	72			30 - 130	30	
2-Chlorophenol	ND	230	68	67	1.5	66			30 - 130	30	
2-Methylnaphthalene	ND	230	65	69	6.0	66			30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	67	68	1.5	63			30 - 130	30	
2-Nitroaniline	ND	330	72	79	9.3	79			30 - 130	30	
2-Nitrophenol	ND	230	70	73	4.2	76			30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	68	75	9.8	65			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	69	80	14.8	71			30 - 130	30	
3-Nitroaniline	ND	330	66	72	8.7	67			30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	25	38	41.3	59			30 - 130	30	l,r
4-Bromophenyl phenyl ether	ND	230	74	79	6.5	74			30 - 130	30	
4-Chloro-3-methylphenol	ND	230	73	79	7.9	70			30 - 130	30	
4-Chloroaniline	ND	230	62	68	9.2	63			30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	76	83	8.8	75			30 - 130	30	
4-Nitroaniline	ND	230	69	79	13.5	71			30 - 130	30	
4-Nitrophenol	ND	230	69	75	8.3	66			30 - 130	30	
Acenaphthene	ND	230	70	74	5.6	70			30 - 130	30	
Acenaphthylene	ND	130	69	73	5.6	70			30 - 130	30	
Acetophenone	ND	230	60	64	6.5	61			30 - 130	30	
Aniline	ND	330	53	55	3.7	43			30 - 130	30	
Anthracene	ND	230	74	79	6.5	72			30 - 130	30	
Benz(a)anthracene	ND	230	74	81	9.0	72			30 - 130	30	
Benzidine	ND	330	31	47	41.0	<10			30 - 130	30	m,r
Benzo(a)pyrene	ND	130	75	78	3.9	72			30 - 130	30	
Benzo(b)fluoranthene	ND	160	78	82	5.0	77			30 - 130	30	
Benzo(ghi)perylene	ND	230	76	81	6.4	75			30 - 130	30	
Benzo(k)fluoranthene	ND	230	76	81	6.4	76			30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	14			30 - 130	30	l,m
Benzyl butyl phthalate	ND	230	72	80	10.5	72			30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	62	68	9.2	68			30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	50	51	2.0	57			30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	43	54	22.7	49			30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	74	83	11.5	81			30 - 130	30	
Carbazole	ND	330	72	76	5.4	71			30 - 130	30	
Chrysene	ND	230	79	86	8.5	78			30 - 130	30	
Dibenz(a,h)anthracene	ND	130	72	79	9.3	72			30 - 130	30	
Dibenzofuran	ND	230	69	75	8.3	70			30 - 130	30	
Diethyl phthalate	ND	230	73	77	5.3	72			30 - 130	30	
Dimethylphthalate	ND	230	71	76	6.8	72			30 - 130	30	
Di-n-butylphthalate	ND	230	74	77	4.0	70			30 - 130	30	
Di-n-octylphthalate	ND	230	77	82	6.3	74			30 - 130	30	
Fluoranthene	ND	230	79	81	2.5	75			30 - 130	30	
Fluorene	ND	230	75	79	5.2	72			30 - 130	30	
Hexachlorobenzene	ND	130	71	78	9.4	74			30 - 130	30	
Hexachlorobutadiene	ND	230	62	64	3.2	69			30 - 130	30	
Hexachlorocyclopentadiene	ND	230	64	68	6.1	69			30 - 130	30	
Hexachloroethane	ND	130	55	57	3.6	53			30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	76	80	5.1	74			30 - 130	30	
Isophorone	ND	130	60	68	12.5	65			30 - 130	30	

QA/QC Data

SDG I.D.: GBK41407

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Naphthalene	ND	230	63	65	3.1	65			30 - 130	30	
Nitrobenzene	ND	130	62	66	6.3	65			30 - 130	30	
N-Nitrosodimethylamine	ND	230	47	50	6.2	51			30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	59	68	14.2	62			30 - 130	30	
N-Nitrosodiphenylamine	ND	130	73	75	2.7	71			30 - 130	30	
Pentachloronitrobenzene	ND	230	76	75	1.3	74			30 - 130	30	
Pentachlorophenol	ND	230	59	37	45.8	64			30 - 130	30	r
Phenanthrene	ND	130	73	77	5.3	72			30 - 130	30	
Phenol	ND	230	70	70	0.0	66			30 - 130	30	
Pyrene	ND	230	81	81	0.0	76			30 - 130	30	
Pyridine	ND	230	36	32	11.8	21			30 - 130	30	m
% 2,4,6-Tribromophenol	49	%	69	77	11.0	70			30 - 130	30	
% 2-Fluorobiphenyl	61	%	66	69	4.4	68			30 - 130	30	
% 2-Fluorophenol	50	%	62	62	0.0	62			30 - 130	30	
% Nitrobenzene-d5	49	%	59	64	8.1	64			30 - 130	30	
% Phenol-d5	53	%	66	67	1.5	65			30 - 130	30	
% Terphenyl-d14	72	%	78	76	2.6	70			30 - 130	30	

Comment:

MSD not reported for this batch.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 330117 (mg/L), QC Sample No: BK41417 (BK41417, BK41418)

TPH by GC (Extractable Products) - Ground Water

Unidentified	ND	0.070	93	86	7.8				60 - 120	30
% n-Pentacosane	71	%	87	82	5.9				50 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
December 24, 2015

Sample Criteria Exceedences Report

GBK41407 - MAGU-DAS

Criteria: CT: GAM, GWP, RC, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK41408	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	1200	400	500	500	mg/Kg
BK41408	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1200	400	500	500	mg/Kg
BK41417	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (ug/L)	ND	5.0	0.5	0.5	ug/L
BK41417	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (ug/L)	ND	1.0	0.05	0.05	ug/L
BK41418	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (ug/L)	ND	5.0	0.5	0.5	ug/L
BK41418	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (ug/L)	ND	1.0	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** CDR Group Inc.

Project Location: SOUTHINGTON MAINTENANCE **Project Number:**

Laboratory Sample ID(s): BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416, BK41417, BK41418, BK41419

Sampling Date(s): 12/18/2015

RCP Methods Used:

☑ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☑ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1a.	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: SVOA Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Thursday, December 24, 2015

Printed Name: Ethan Lee

Position: Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

RCP Certification Report

December 24, 2015

SDG I.D.: GBK41407

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-fid1 12/21/15-1 (BK41416)

The initial calibration (ETPHD21I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D21A021_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/21/2015

Instrument: Au-fid11 12/21/15-2 (BK41407)

The initial calibration (ETPHD16I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D21A016_1) and contained the following outliers:
C36 (20.6%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BK41407
Preceding CC D21A016 - None.
Succeeding CC D21A023 - DRO (C10-C28) (99.4%L), ETPH (C9-C36) (99.2%L), Pentacosane (100%L)
A low "1A" standard was run to demonstrate capability to detect these compounds at the indicated RL. All reported samples were ND for these compounds.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/21/2015

Instrument: Au-fid84 12/19/15-1 (BK41417)

Initial Calibration (FID84 - ETPH_413) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

The initial calibration (ETPHN17I) RSD for the compound list was less than 30% except for the following compounds: None.

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RCP Certification Report

December 24, 2015

SDG I.D.: GBK41407

As per section 7.2.3, a discrimination check standard was run (D19A003_2) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/19/2015

Instrument: Au-fid84 12/19/15-2 (BK41417, BK41418)

Initial Calibration (FID84 - ETPH_413) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

The initial calibration (ETPHN17I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D19A016_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/19/2015

Instrument: Au-fid84 12/21/15-2 (BK41408)

Initial Calibration (FID84 - ETPH_413) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

The initial calibration (ETPHN17I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D21A016_1) and contained the following outliers:
C36 (49.5%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BK41408
Preceding CC D21A016 - None.
Succeeding CC D21A027 - ETPH (C9-C36) (31%H)

Printed Name Jeff Bucko
Position: Chemist
Date: 12/21/2015

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

RCP Certification Report

December 24, 2015

SDG I.D.: GBK41407

Instrument: Au-xl1 12/21/15-1 (BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

The initial calibration (ETPHD14I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D21A003A_1) and contained the following outliers:
C36 (75.7%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/21/2015

QC Comments: QC Batch 330117 12/18/15 (BK41417, BK41418)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

---------- Sample No: BK41416, QA/QC Batch: 330065 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

---------- Sample No: BK41417, QA/QC Batch: 330117 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Mercury Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Merlin 12/21/15-1 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and

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December 24, 2015

SDG I.D.: GBK41407

no further action is taken.

Printed Name Mike Arsenault
Position: Chemist
Date: 12/21/2015

Instrument: Merlin 12/22/15-1 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 12/22/2015

QC (Batch Specific)

---------- Sample No: BK40693, QA/QC Batch: 330144 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BK41407, QA/QC Batch: 330189 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK41473, QA/QC Batch: 330145 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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SDG I.D.: GBK41407

ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Arcos 12/19/15-1 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/19/2015

Instrument: Arcos 12/20/15-1 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/20/2015

Instrument: Arcos 12/21/15-1 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/21/2015

PHOENIX

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RCP Certification Report

December 24, 2015

SDG I.D.: GBK41407

QC (Batch Specific)

---------- Sample No: BK41407, QA/QC Batch: 330081 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK41407, QA/QC Batch: 330139 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BK41416, QA/QC Batch: 330140 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 330062 (Samples: BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416): -----

The QC recoveries are below method criteria. A low bias is possible. (Benzoic Acid)

The LCS and/or LCSD recoveries for one or more analytes is below the method criteria. A low bias for these analytes is possible. (2,4-Dinitrophenol)

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (4,6-Dinitro-2-methylphenol)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (4,6-Dinitro-2-methylphenol, Benzidine, Pentachlorophenol)

Instrument: Chem05 12/18/15-2 (BK41416)

Initial Calibration Verification (CHEM05/SV_1123):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane (.288)[0.3]
The following compounds did not meet a minimum response factors: None.

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Continuing Calibration Verification (CHEM05/1218_26-SV_1123):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 12/18/2015

Instrument: Chem06 12/18/15-2 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration Verification (CHEM06/SV_1208):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,1-Biphenyl (22%), 2,4-Dinitrophenol (34%), 4,6-Dinitro-2-methylphenol (30%), Benzidine (21%), Benzoic Acid (28%)
The following compounds did not meet recommended response factors: 2-Nitrophenol (.071)[0.1], Hexachlorobenzene (.093)[0.1]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/1218_33A-SV_1208):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.081)[0.1], Hexachlorobenzene (.094)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 12/18/2015

QC Comments: QC Batch 330062 12/18/15 (BK41407, BK41408, BK41409, BK41410, BK41411, BK41412, BK41413, BK41414, BK41415, BK41416)

MSD not reported for this batch.

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December 24, 2015

SDG I.D.: GBK41407

QC (Batch Specific)

---------- Sample No: BK41416, QA/QC Batch: 330062 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(11%), 4,6-Dinitro-2-methylphenol(25%), Benzoic Acid(<10%)

All LCSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<10%), Benzoic Acid(<10%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: 4,6-Dinitro-2-methylphenol(41.3%), Benzidine(41.0%), Pentachlorophenol(45.8%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 330583 (Samples: BK41407, BK41408, BK41409, BK41410, BK41411): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane)

Instrument: Chem02 12/18/15-2 (BK41417, BK41418, BK41419)

Initial Calibration Verification (CHEM02/VT-P1210):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-Chloropropane (22%), 1,4-Dioxane (22%), Chloroethane (23%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-Chloropropane (.028)[0.05], 2-Hexanone (.080)[0.1], 4-Methyl-2-Pentanone (.096)[0.1], Acetone (.049)[0.1], Acrolein (.030)[0.05], Bromoform (.072)[0.1], Methyl Ethyl Ketone (.074)[0.1]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/1218P31-VT-P1210):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-dibromo-3-chloropropane (.026)[0.05], Acrolein (.028)[0.05], Bromoform (.069)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Michael Hahn
Position: Chemist
Date: 12/18/2015

Instrument: Chem18 12/23/15-2 (BK41407, BK41408, BK41409, BK41410, BK41411)

Initial Calibration Verification (CHEM18/VT-M1223):

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SDG I.D.: GBK41407

99% of target compounds met criteria.
The following compounds had %RSDs >20%: Naphthalene (27%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/1223M45-VT-M1223):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Jane Li
Position: Chemist
Date: 12/23/2015

Instrument: Chem26 12/23/15-2 (BK41412, BK41413, BK41414, BK41415, BK41416)

Initial Calibration Verification (CHEM26/VT-1216):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (35%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM26/1223_37-VT-1216):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Dichlorodifluoromethane (33%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Jane Li
Position: Chemist
Date: 12/23/2015

QC Comments: QC Batch 330205 12/18/15 (BK41417, BK41418, BK41419)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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December 24, 2015

SDG I.D.: GBK41407

QC (Batch Specific)

---------- Sample No: BK41330, QA/QC Batch: 330205 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK41411, QA/QC Batch: 330583 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(152%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(155%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK41413, QA/QC Batch: 330586 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 4C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 4 °C Pg 1 of 2

Contact Options:
[ ] Fax:
[X] Phone: 860 563 3158
[X] Email: jane.witherell@cdrgroup-inc.com

Customer: CDR Group Inc.
Address: 2080 Silas Deane Hwy
Rocky Hill CT 06067

Project: Southington Maintenance Facility
Report to: Jane Witherell - CDR
Invoice to: PAS Contract - CTDOT c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 12/18/15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	SVOCs 8270	CT EPH	Total RCRA 8 Metals	TCLP RCRA 8 Metals	Dissolved RCRA 8 Metals	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8)oz	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [1] HCl	GL Amber 1000ml [1] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
41407	GP-18 2'-4'	S	12/18/15	7:15	X	X	X	X	X			1/2	1							
41408	GP-17 2'-4'			7:30																
41409	GP-16 2'-4'			7:45																
41410	GP-15 2'-4'			8:00																
41411	GP-11 2'-4'			7:05																
41412	GP-9 2'-4'			8:30																
41413	GP-7 8'-10'			9:00																
41414	GP-5 2'-4'			9:30																
41415	GP-2 8'-10'			10:05																
41416	GP-1 8'-10'			11:00																
41417	GW-1	GW		11:45	X		X							3	1					
41418	GW-2	GW		12:00	X		X							3	1					

Relinquished by:	Accepted by:	Date:	Time:
[signature]	TFCuuuu	12/18	12:50

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[ ] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: CT

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]

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CHAIN OF CUSTODY RECORD

Temp 4 °C Pg 2 of 2

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Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[✓] Phone: 860 563 3158
[✓] Email: jane.witherell@cdrgroup-inc.com

Customer: CDR Group Inc
Address: 2080 Silas Deane
Rocky Hill CT 06067

Project: Southington Maintenance Facility
Report to: Jane Witherell
Invoice to: DAS Contract - CTDOT c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 12/18/15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [✓] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
41419	TB-Aq.	GW	12/18/15	-	X				2						

Relinquished by:	Accepted by:	Date:	Time:
[signature]	TFCuuu	12/18	12:50

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[✓] RCP Cert
[✓] GW Protection
[✓] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[ ] Excel
[✓] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[✓] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Thursday, December 31, 2015

Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Sample ID#s: BK40702 - BK40712

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

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Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	10:45
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40702

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-3 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.45	0.45	mg/Kg	1	12/18/15	EK	SW6010C	
Arsenic	< 0.9	0.9	mg/Kg	1	12/18/15	EK	SW6010C	
Barium	29.5	0.45	mg/Kg	1	12/18/15	EK	SW6010C	
Cadmium	< 0.45	0.45	mg/Kg	1	12/18/15	EK	SW6010C	
Chromium	8.27	0.45	mg/Kg	1	12/18/15	EK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	12/18/15	RS	SW7471B	
Lead	3.50	0.45	mg/Kg	1	12/20/15	LK	SW6010C	B*
Selenium	< 1.8	1.8	mg/Kg	1	12/18/15	EK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.21	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	92		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BJ/V	SW3545A	
Mercury Digestion	Completed				12/18/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	54	mg/Kg	1	12/19/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-3 8-10 FT

Phoenix I.D.: BK40702

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/19/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	56		%	1	12/19/15	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloropropene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromoethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloroethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloropropane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichloropropane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
2,2-Dichloropropane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
2-Chlorotoluene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
2-Hexanone	ND	23	ug/Kg	1	12/23/15	JLI	SW8260C
2-Isopropyltoluene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
4-Chlorotoluene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	12/23/15	JLI	SW8260C
Acetone	ND	230	ug/Kg	1	12/23/15	JLI	SW8260C
Acrylonitrile	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Benzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromobenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromochloromethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromodichloromethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromoform	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromomethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon Disulfide	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon tetrachloride	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chlorobenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroform	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chloromethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromomethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Hexachlorobutadiene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Isopropylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
m&p-Xylene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	12/23/15	JLI	SW8260C
Methylene chloride	ND	9.2	ug/Kg	1	12/23/15	JLI	SW8260C
Naphthalene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
n-Butylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
n-Propylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
o-Xylene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
p-Isopropyltoluene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
sec-Butylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Styrene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
tert-Butylbenzene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrachloroethene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	12/23/15	JLI	SW8260C
Toluene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Total Xylenes	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.2	ug/Kg	1	12/23/15	JLI	SW8260C
Trichloroethene	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorofluoromethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
Vinyl chloride	ND	4.6	ug/Kg	1	12/23/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	12/23/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	12/23/15	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	12/23/15	JLI	70 - 130 %
% Toluene-d8	101		%	1	12/23/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dinitrophenol	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	12/17/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-3 8-10 FT

Phoenix I.D.: BK40702

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
3-Nitroaniline	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	12/17/15	DD	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Aniline	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Benzidine	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Benzoic acid	ND	720	ug/Kg	1	12/17/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Carbazole	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	12/17/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-3 8-10 FT

Phoenix I.D.: BK40702

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
Pentachloronitrobenzene	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	12/17/15	DD	SW8270D
Pyridine	ND	360	ug/Kg	1	12/17/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	69		%	1	12/17/15	DD	30 - 130 %
% 2-Fluorobiphenyl	55		%	1	12/17/15	DD	30 - 130 %
% 2-Fluorophenol	42		%	1	12/17/15	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	12/17/15	DD	30 - 130 %
% Phenol-d5	49		%	1	12/17/15	DD	30 - 130 %
% Terphenyl-d14	71		%	1	12/17/15	DD	30 - 130 %

B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	10:00
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40703

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-4 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.52	0.52	mg/Kg	1	12/18/15	EK	SW6010C	
Arsenic	< 1.0	1.0	mg/Kg	1	12/18/15	EK	SW6010C	
Barium	29.7	0.52	mg/Kg	1	12/18/15	EK	SW6010C	
Cadmium	< 0.52	0.52	mg/Kg	1	12/18/15	EK	SW6010C	
Chromium	10.1	0.52	mg/Kg	1	12/18/15	EK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	12/18/15	RS	SW7471B	
Lead	4.17	0.52	mg/Kg	1	12/20/15	LK	SW6010C	B*
Selenium	< 2.1	2.1	mg/Kg	1	12/18/15	EK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.21	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	85		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BJ/V	SW3545A	
Mercury Digestion	Completed				12/18/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	57	mg/Kg	1	12/19/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-4 8-10 FT

Phoenix I.D.: BK40703

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/19/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	12/19/15	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dinitrophenol	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	12/17/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-4 8-10 FT

Phoenix I.D.: BK40703

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
3-Nitroaniline	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	12/17/15	DD	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Acetophenone	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Aniline	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Benzidine	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Benzoic acid	ND	770	ug/Kg	1	12/17/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Carbazole	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Di-n-butylphthalate	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Isophorone	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	1	12/17/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-4 8-10 FT

Phoenix I.D.: BK40703

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Phenol	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	12/17/15	DD	SW8270D
Pyridine	ND	380	ug/Kg	1	12/17/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	84		%	1	12/17/15	DD	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	12/17/15	DD	30 - 130 %
% 2-Fluorophenol	50		%	1	12/17/15	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	12/17/15	DD	30 - 130 %
% Phenol-d5	63		%	1	12/17/15	DD	30 - 130 %
% Terphenyl-d14	78		%	1	12/17/15	DD	30 - 130 %

B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	8:10
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40704

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-6 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.48	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Arsenic	< 1.0	1.0	mg/Kg	1	12/18/15	EK	SW6010C	
Barium	25.3	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Cadmium	< 0.48	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Chromium	8.33	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	12/18/15	RS	SW7471B	
Lead	4.54	0.48	mg/Kg	1	12/20/15	LK	SW6010C	B*
Selenium	< 1.9	1.9	mg/Kg	1	12/18/15	EK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.20	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	93		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BC/V	SW3545A	
Mercury Digestion	Completed				12/18/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	53	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-6 8-10 FT

Phoenix I.D.: BK40704

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	99		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-6 8-10 FT

Phoenix I.D.: BK40704

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
3-Nitroaniline	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Aniline	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzidine	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzoic acid	ND	720	ug/Kg	1	12/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Carbazole	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-6 8-10 FT

Phoenix I.D.: BK40704

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Pyridine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	77		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorophenol	48		%	1	12/18/15	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	12/18/15	DD	30 - 130 %
% Phenol-d5	64		%	1	12/18/15	DD	30 - 130 %
% Terphenyl-d14	77		%	1	12/18/15	DD	30 - 130 %

B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	11:15
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40705

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-8 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.55	0.55	mg/Kg	1	12/18/15	EK	SW6010C	
Arsenic	< 1.1	1.1	mg/Kg	1	12/18/15	EK	SW6010C	
Barium	31.5	0.55	mg/Kg	1	12/18/15	EK	SW6010C	
Cadmium	< 0.55	0.55	mg/Kg	1	12/18/15	EK	SW6010C	
Chromium	9.32	0.55	mg/Kg	1	12/18/15	EK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	12/18/15	RS	SW7471B	
Lead	3.89	0.55	mg/Kg	1	12/20/15	LK	SW6010C	B*
Selenium	< 2.2	2.2	mg/Kg	1	12/18/15	EK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.30	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	87		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BC/V	SW3545A	
Mercury Digestion	Completed				12/18/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	57	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-8 8-10 FT

Phoenix I.D.: BK40705

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-8 8-10 FT

Phoenix I.D.: BK40705

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
3-Nitroaniline	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Aniline	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzidine	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzoic acid	ND	750	ug/Kg	1	12/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Carbazole	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-8 8-10 FT

Phoenix I.D.: BK40705

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorophenol	53		%	1	12/18/15	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	12/18/15	DD	30 - 130 %
% Phenol-d5	67		%	1	12/18/15	DD	30 - 130 %
% Terphenyl-d14	81		%	1	12/18/15	DD	30 - 130 %

B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	8:50
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40706

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-10 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.47	0.47	mg/Kg	1	12/18/15	EK	SW6010C	
Arsenic	< 0.9	0.9	mg/Kg	1	12/18/15	EK	SW6010C	
Barium	57.6	0.47	mg/Kg	1	12/18/15	EK	SW6010C	
Cadmium	< 0.47	0.47	mg/Kg	1	12/18/15	EK	SW6010C	
Chromium	15.1	0.47	mg/Kg	1	12/18/15	EK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	12/18/15	RS	SW7471B	
Lead	5.56	0.47	mg/Kg	1	12/20/15	LK	SW6010C	B*
Selenium	< 1.9	1.9	mg/Kg	1	12/18/15	EK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.70	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	0.023	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	95		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BC/V	SW3545A	
Mercury Digestion	Completed				12/18/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	190	52	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-10 2-4 FT

Phoenix I.D.: BK40706

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	**		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloropropene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromoethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloroethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloropropane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichloropropane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
2,2-Dichloropropane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
2-Chlorotoluene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
2-Hexanone	ND	19	ug/Kg	1	12/23/15	JLI	SW8260C
2-Isopropyltoluene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
4-Chlorotoluene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	19	ug/Kg	1	12/23/15	JLI	SW8260C
Acetone	ND	190	ug/Kg	1	12/23/15	JLI	SW8260C
Acrylonitrile	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Benzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Bromobenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Bromochloromethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Bromodichloromethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Bromoform	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Bromomethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon Disulfide	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon tetrachloride	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Chlorobenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroform	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Chloromethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromochloromethane	ND	2.2	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromomethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Dichlorodifluoromethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Hexachlorobutadiene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Isopropylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
m&p-Xylene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	22	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.5	ug/Kg	1	12/23/15	JLI	SW8260C
Methylene chloride	ND	7.5	ug/Kg	1	12/23/15	JLI	SW8260C
Naphthalene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
n-Butylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
n-Propylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
o-Xylene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
p-Isopropyltoluene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
sec-Butylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Styrene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
tert-Butylbenzene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrachloroethene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.5	ug/Kg	1	12/23/15	JLI	SW8260C
Toluene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Total Xylenes	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.5	ug/Kg	1	12/23/15	JLI	SW8260C
Trichloroethene	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorofluoromethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
Vinyl chloride	ND	3.7	ug/Kg	1	12/23/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	12/23/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	12/23/15	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	12/23/15	JLI	70 - 130 %
% Toluene-d8	97		%	1	12/23/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-10 2-4 FT

Phoenix I.D.: BK40706

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloroaniline	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitroaniline	ND	550	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Acetophenone	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Aniline	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Benzidine	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Benzoic acid	ND	690	ug/Kg	1	12/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Carbazole	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
Chrysene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Dibenzofuran	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-butylphthalate	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Fluoranthene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Isophorone	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Nitrobenzene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-10 2-4 FT

Phoenix I.D.: BK40706

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
Phenanthrene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Phenol	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Pyrene	ND	240	ug/Kg	1	12/18/15	DD	SW8270D
Pyridine	ND	350	ug/Kg	1	12/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	66		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	61		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorophenol	44		%	1	12/18/15	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	12/18/15	DD	30 - 130 %
% Phenol-d5	57		%	1	12/18/15	DD	30 - 130 %
% Terphenyl-d14	56		%	1	12/18/15	DD	30 - 130 %

B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C26 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	12:10
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40707

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-12 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.48	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Arsenic	< 1.0	1.0	mg/Kg	1	12/18/15	EK	SW6010C	
Barium	17.3	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Cadmium	< 0.48	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Chromium	6.55	0.48	mg/Kg	1	12/18/15	EK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	12/21/15	RS	SW7471B	
Lead	2.69	0.48	mg/Kg	1	12/20/15	LK	SW6010C	B*
Selenium	< 1.9	1.9	mg/Kg	1	12/18/15	EK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.19	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	97		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BC/V	SW3545A	
Mercury Digestion	Completed				12/21/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	51	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-12 2-4 FT

Phoenix I.D.: BK40707

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	12/23/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	12/23/15	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	12/23/15	JLI	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Benzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromoform	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroform	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	12/23/15	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	12/23/15	JLI	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Styrene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	12/23/15	JLI	SW8260C
Toluene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	12/23/15	JLI	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	12/23/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	12/23/15	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	12/23/15	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	12/23/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/23/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dinitrophenol	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	12/17/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-12 2-4 FT

Phoenix I.D.: BK40707

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
3-Nitroaniline	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
4-Chloroaniline	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
4-Nitroaniline	ND	540	ug/Kg	1	12/17/15	DD	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Acetophenone	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Aniline	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Benzidine	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Benzoic acid	ND	680	ug/Kg	1	12/17/15	DD	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Carbazole	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
Chrysene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Dibenzofuran	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Di-n-butylphthalate	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Fluoranthene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Isophorone	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
Nitrobenzene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D
N-Nitrosodimethylamine	ND	340	ug/Kg	1	12/17/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	1	12/17/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-12 2-4 FT

Phoenix I.D.: BK40707

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	12/17/15	DD	SW8270D	
Pentachloronitrobenzene	ND	340	ug/Kg	1	12/17/15	DD	SW8270D	
Pentachlorophenol	ND	340	ug/Kg	1	12/17/15	DD	SW8270D	
Phenanthrene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D	
Phenol	ND	240	ug/Kg	1	12/17/15	DD	SW8270D	
Pyrene	ND	240	ug/Kg	1	12/17/15	DD	SW8270D	
Pyridine	ND	340	ug/Kg	1	12/17/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	39		%	1	12/17/15	DD	30 - 130 %	
% 2-Fluorobiphenyl	42		%	1	12/17/15	DD	30 - 130 %	
% 2-Fluorophenol	28		%	1	12/17/15	DD	30 - 130 %	3
% Nitrobenzene-d5	39		%	1	12/17/15	DD	30 - 130 %	
% Phenol-d5	36		%	1	12/17/15	DD	30 - 130 %	
% Terphenyl-d14	43		%	1	12/17/15	DD	30 - 130 %	

3 = This parameter exceeds laboratory specified limits.
B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	9:10
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40708

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-13 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.50	0.50	mg/Kg	1	12/18/15	EK	SW6010C	
Arsenic	< 1.0	1.0	mg/Kg	1	12/18/15	EK	SW6010C	
Barium	19.9	0.50	mg/Kg	1	12/18/15	EK	SW6010C	
Cadmium	< 0.50	0.50	mg/Kg	1	12/18/15	EK	SW6010C	
Chromium	9.65	0.50	mg/Kg	1	12/18/15	EK	SW6010C	
Mercury	0.04	0.03	mg/Kg	1	12/21/15	RS	SW7471B	
Lead	16.6	0.50	mg/Kg	1	12/18/15	EK	SW6010C	B
Selenium	< 2.0	2.0	mg/Kg	1	12/18/15	EK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.13	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	89		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BC/V	SW3545A	
Mercury Digestion	Completed				12/21/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	55	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-13 2-4 FT

Phoenix I.D.: BK40708

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	12/21/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	12/23/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloroethene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,1-Dichloropropene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dibromoethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloroethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,2-Dichloropropane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,3-Dichloropropane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
2,2-Dichloropropane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
2-Chlorotoluene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
2-Hexanone	ND	22	ug/Kg	1	12/23/15	JLI	SW8260C
2-Isopropyltoluene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
4-Chlorotoluene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	12/23/15	JLI	SW8260C
Acetone	ND	220	ug/Kg	1	12/23/15	JLI	SW8260C
Acrylonitrile	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Benzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Bromobenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Bromochloromethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Bromodichloromethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Bromoform	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Bromomethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon Disulfide	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Carbon tetrachloride	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Chlorobenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Chloroform	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Chloromethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromochloromethane	ND	2.7	ug/Kg	1	12/23/15	JLI	SW8260C
Dibromomethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Dichlorodifluoromethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Hexachlorobutadiene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Isopropylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
m&p-Xylene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	27	ug/Kg	1	12/23/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.0	ug/Kg	1	12/23/15	JLI	SW8260C
Methylene chloride	ND	9.0	ug/Kg	1	12/23/15	JLI	SW8260C
Naphthalene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
n-Butylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
n-Propylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
o-Xylene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
p-Isopropyltoluene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
sec-Butylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Styrene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
tert-Butylbenzene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrachloroethene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.0	ug/Kg	1	12/23/15	JLI	SW8260C
Toluene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Total Xylenes	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.0	ug/Kg	1	12/23/15	JLI	SW8260C
Trichloroethene	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorofluoromethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
Vinyl chloride	ND	4.5	ug/Kg	1	12/23/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	12/23/15	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	12/23/15	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	12/23/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/23/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-13 2-4 FT

Phoenix I.D.: BK40708

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
3-Nitroaniline	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Aniline	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzidine	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Benzoic acid	ND	740	ug/Kg	1	12/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Carbazole	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-13 2-4 FT

Phoenix I.D.: BK40708

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	12/18/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	12/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorophenol	42		%	1	12/18/15	DD	30 - 130 %
% Nitrobenzene-d5	79		%	1	12/18/15	DD	30 - 130 %
% Phenol-d5	66		%	1	12/18/15	DD	30 - 130 %
% Terphenyl-d14	67		%	1	12/18/15	DD	30 - 130 %

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	12:45
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40709

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-14 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	1	12/18/15	LK	SW6010C	
Arsenic	1.7	0.7	mg/Kg	1	12/18/15	LK	SW6010C	
Barium	25.1	0.37	mg/Kg	1	12/18/15	LK	SW6010C	
Cadmium	< 0.37	0.37	mg/Kg	1	12/18/15	LK	SW6010C	
Chromium	9.41	0.37	mg/Kg	1	12/18/15	LK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	12/21/15	RS	SW7471B	
Lead	24.9	0.37	mg/Kg	1	12/21/15	LK	SW6010C	B
Selenium	< 1.5	1.5	mg/Kg	1	12/18/15	LK	SW6010C	
TCLP Silver	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Arsenic	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Barium	0.18	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Cadmium	< 0.005	0.005	mg/L	1	12/20/15	LK	SW6010C	
TCLP Chromium	< 0.010	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A	
TCLP Lead	0.046	0.010	mg/L	1	12/20/15	LK	SW6010C	
TCLP Selenium	< 0.01	0.01	mg/L	1	12/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed				12/18/15	W/W	SW3005A	
Percent Solid	90		%		12/17/15	W	SW846-%Solid	
Soil Extraction for SVOA	Completed				12/17/15	BJ/CKV	SW3545A	
Extraction of CT ETPH	Completed				12/17/15	BC/V	SW3545A	
Mercury Digestion	Completed				12/21/15	W/W	SW7471B	
TCLP Digestion Mercury	Completed				12/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed				12/17/15	W	SW1311	
Total Metals Digest	Completed				12/17/15	G/AG	SW3050B	
Field Extraction	Completed				12/17/15		SW5035A	

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	55	mg/Kg	1	12/21/15	JRB	CTETPH 8015D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-14 2-4 FT

Phoenix I.D.: BK40709

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	12/21/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	12/21/15	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	12/24/15	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	90		%	1	12/24/15	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-14 2-4 FT

Phoenix I.D.: BK40709

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitroaniline	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
3-Nitroaniline	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	12/18/15	DD	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Aniline	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benz(a)anthracene	310	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzidine	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(a)pyrene	370	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(b)fluoranthene	340	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzo(k)fluoranthene	360	250	ug/Kg	1	12/18/15	DD	SW8270D
Benzoic acid	ND	720	ug/Kg	1	12/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Carbazole	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Chrysene	410	250	ug/Kg	1	12/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Fluoranthene	550	250	ug/Kg	1	12/18/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	12/18/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: GP-14 2-4 FT

Phoenix I.D.: BK40709

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	12/18/15	DD	SW8270D
Pyrene	540	250	ug/Kg	1	12/18/15	DD	SW8270D
Pyridine	ND	360	ug/Kg	1	12/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	12/18/15	DD	30 - 130 %
% 2-Fluorophenol	39		%	1	12/18/15	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	12/18/15	DD	30 - 130 %
% Phenol-d5	59		%	1	12/18/15	DD	30 - 130 %
% Terphenyl-d14	63		%	1	12/18/15	DD	30 - 130 %

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 31, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	0:05
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40710

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: TB LOW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				12/17/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: TB LOW

Phoenix I.D.: BK40710

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	12/24/15	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	12/24/15	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	12/24/15	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	12/24/15	JLI	70 - 130 %

Project ID: SOUTHINGTON MAINTENANCE FACILITY

Client ID: TB LOW

Phoenix I.D.: BK40710

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	102		%	1	12/24/15	JLI	70 - 130 %
% Toluene-d8	90		%	1	12/24/15	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

December 31, 2015

Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	CK	12/17/15	
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40711

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: TB HIGH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				12/17/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2-Dichloroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	12/24/15	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
4-Chlorotoluene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: TB HIGH

Phoenix I.D.: BK40711

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	12/24/15	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	12/24/15	JLI	SW8260C
Acrylonitrile	ND	500	ug/Kg	50	12/24/15	JLI	SW8260C
Benzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Bromodichloromethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Dibromochloromethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	12/24/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	12/24/15	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	12/24/15	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	12/24/15	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	12/24/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	50	12/24/15	JLI	70 - 130 %
% Bromofluorobenzene	97		%	50	12/24/15	JLI	70 - 130 %

Project ID: SOUTHINGTON MAINTENANCE FACILITY

Client ID: TB HIGH

Phoenix I.D.: BK40711

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	50	12/24/15	JLI	70 - 130 %
% Toluene-d8	91		%	50	12/24/15	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

December 31, 2015

Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 31, 2015

FOR: Attn: Ms Jane Witherell
CDR Group Inc.
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	CK	12/17/15	13:00
Location Code:	MAGU-DAS	Received by:	LK	12/17/15	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK40702
Phoenix ID: BK40712

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: FB-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	12/18/15	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	12/18/15	LK	SW6010C
Barium	< 0.002	0.002	mg/L	1	12/18/15	LK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	12/18/15	LK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	12/18/15	LK	SW6010C
Silver (Dissolved)	< 0.001	0.001	mg/L	1	12/18/15	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	12/18/15	LK	SW6010C
Barium (Dissolved)	< 0.002	0.002	mg/L	1	12/18/15	LK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	12/18/15	LK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	12/18/15	LK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	12/22/15	RS	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	12/18/15	LK	SW6010C
Selenium (Dissolved)	< 0.002	0.002	mg/L	1	12/29/15	RS	E200.9/SM3113B-10
Mercury	< 0.0002	0.0002	mg/L	1	12/18/15	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	12/18/15	LK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	12/18/15	LK	SW6010C
Extraction of CT ETPH	Completed				12/18/15	T	SW3510C/SW3520C
Mercury Dissolved Digestion	Completed				12/21/15	W/W	SW7470A
Mercury Digestion	Completed				12/18/15	W/W	SW7470A
Semi-Volatile Extraction	Completed				12/17/15	E/D/K	SW3520C
Dissolved Metals Preparation	Completed				12/17/15	AG	SW3005A
Total Metals Digestion	Completed				12/17/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	12/19/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	12/19/15	JRB	50 - 150 %

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: FB-1

Phoenix I.D.: BK40712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	12/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	12/24/15	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/24/15	MH	SW8260C
Acetone	ND	25	ug/L	1	12/24/15	MH	SW8260C
Acrylonitrile	ND	5.0	ug/L	1	12/24/15	MH	SW8260C
Benzene	ND	0.70	ug/L	1	12/24/15	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	12/24/15	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	12/24/15	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/24/15	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	12/24/15	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	12/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: FB-1

Phoenix I.D.: BK40712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	12/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Styrene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/24/15	MH	SW8260C
Toluene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/24/15	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/24/15	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	12/24/15	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	12/24/15	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	12/24/15	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	12/24/15	MH	70 - 130 %
% Toluene-d8	100		%	1	12/24/15	MH	70 - 130 %

Semivolatiles (SIM)

1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	12/21/15	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0	ug/L	1	12/21/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50	ug/L	1	12/21/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	12/21/15	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/21/15	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	12/21/15	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	ug/L	1	12/21/15	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50	ug/L	1	12/21/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	12/21/15	DD	SW8270D (SIM)

Project ID: SOUTHINGTON MAINTENANCE FACILITY
Client ID: FB-1

Phoenix I.D.: BK40712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	0.10	ug/L	1	12/21/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	12/21/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	ug/L	1	12/21/15	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	12/21/15	DD	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	12/21/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	101		%	1	12/21/15	DD	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	12/21/15	DD	30 - 130 %
% 2-Fluorophenol	68		%	1	12/21/15	DD	15 - 110 %
% Nitrobenzene-d5	80		%	1	12/21/15	DD	30 - 130 %
% Phenol-d5	73		%	1	12/21/15	DD	15 - 110 %
% Terphenyl-d14	124		%	1	12/21/15	DD	30 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	12/22/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	12/22/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	12/22/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
2-Chlorophenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
2-Nitrophenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	12/22/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
4-Nitrophenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
Acetophenone	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Aniline	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Benzidine	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Benzoic acid	ND	50	ug/L	1	12/22/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	12/22/15	DD	SW8270D

Project ID: SOUTHINGTON MAINTENANCE FACILITY

Client ID: FB-1

Phoenix I.D.: BK40712

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbazole	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Dibenzofuran	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Diethyl phthalate	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Isophorone	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
N-Nitrosodimethylamine	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	12/22/15	DD	SW8270D
Phenol	ND	1.0	ug/L	1	12/22/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	53		%	1	12/22/15	DD	15 - 110 %
% 2-Fluorobiphenyl	59		%	1	12/22/15	DD	30 - 130 %
% 2-Fluorophenol	58		%	1	12/22/15	DD	15 - 110 %
% Nitrobenzene-d5	58		%	1	12/22/15	DD	30 - 130 %
% Phenol-d5	61		%	1	12/22/15	DD	15 - 110 %
% Terphenyl-d14	82		%	1	12/22/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

December 31, 2015

Reviewed and Released by: Ethan Lee, Project Manager

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QA/QC Report

December 31, 2015

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 329969 (mg/kg), QC Sample No: BK40387 (BK40702, BK40703, BK40704, BK40705, BK40706)														
Mercury - Soil	BRL	0.06	0.04	0.08	NC	100	100	0.0	108	134	21.5	70 - 130	30	m
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 329974 (mg/L), QC Sample No: BK40472 (BK40712)														
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0003	NC	93.8	96.6	2.9	86.8	87.3	0.6	70 - 130	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 329914 (mg/kg), QC Sample No: BK40503 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708)														
ICP Metals - Soil														
Arsenic	BRL	0.89	34.9	33.8	3.20	102	103	1.0	94.2	89.4	5.2	75 - 125	30	
Barium	BRL	0.44	255	220	14.7	96.5	97.6	1.1	58.7	45.7	24.9	75 - 125	30	m
Cadmium	BRL	0.44	9.40	9.59	2.00	93.3	94.9	1.7	92.3	88.8	3.9	75 - 125	30	
Chromium	BRL	0.44	375	464	21.2	99.7	98.8	0.9	>130	>130	NC	75 - 125	30	m
Lead	0.80	0.44	486	607	22.1	100	101	1.0	101	90.4	11.1	75 - 125	30	
Selenium	BRL	1.8	<2.0	<1.9	NC	110	110	0.0	86.7	85.7	1.2	75 - 125	30	
Silver	BRL	0.44	<0.49	<0.48	NC	96.4	96.5	0.1	95.9	91.4	4.8	75 - 125	30	
QA/QC Batch 329972 (mg/L), QC Sample No: BK40532 (BK40702, BK40703, BK40704)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	100	99.1	0.9	98.5	103	4.5	70 - 130	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 329933 (mg/L), QC Sample No: BK40537 (BK40712)														
ICP Metals - Aqueous														
Arsenic	BRL	0.004	<0.004	<0.004	NC	97.2	94.9	2.4	99.4	99.6	0.2	75 - 125	20	
Barium	BRL	0.002	0.027	0.028	3.60	109	104	4.7	104	104	0.0	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	96.7	93.0	3.9	92.8	91.9	1.0	75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	98.0	94.2	4.0	94.6	94.2	0.4	75 - 125	20	
Lead	BRL	0.002	0.002	0.002	NC	97.6	95.3	2.4	96.8	97.2	0.4	75 - 125	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	97.8	94.9	3.0	98.4	98.2	0.2	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	99.1	96.3	2.9	99.5	99.8	0.3	75 - 125	20	
QA/QC Batch 329971 (mg/L), QC Sample No: BK40702 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709)														
ICP Metals - TCLP Extraction														
Arsenic	BRL	0.01	<0.01	<0.01	NC	114	114	0.0	111	116	4.4	75 - 125	20	
Barium	BRL	0.01	0.21	0.20	4.90	98.3	97.2	1.1	94.0	99.7	5.9	75 - 125	20	
Cadmium	BRL	0.005	<0.005	<0.005	NC	105	104	1.0	99.1	104	4.8	75 - 125	20	
Chromium	BRL	0.010	<0.010	<0.010	NC	102	101	1.0	97.1	102	4.9	75 - 125	20	
Lead	BRL	0.010	<0.010	<0.010	NC	97.2	96.7	0.5	93.4	96.6	3.4	75 - 125	20	
Selenium	BRL	0.01	<0.01	<0.01	NC	120	121	0.8	117	122	4.2	75 - 125	20	
Silver	BRL	0.010	<0.010	<0.010	NC	109	107	1.9	104	110	5.6	75 - 125	20	

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 329973 (mg/L), QC Sample No: BK40705 (BK40705, BK40706, BK40707, BK40708, BK40709, BK40712)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	103	102	1.0	97.6	97.2	0.4	70 - 130	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 330142 (mg/kg), QC Sample No: BK40707 (BK40707, BK40708, BK40709)														
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	110	106	3.7	95.4	102	6.7	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 329935 (mg/kg), QC Sample No: BK40709 (BK40709)														
ICP Metals - Soil														
Arsenic	BRL	0.67	1.7	0.82	NC	99.4	103	3.6	90.4	90.6	0.2	75 - 125	30	
Barium	BRL	0.33	25.1	21.5	15.5	103	108	4.7	103	103	0.0	75 - 125	30	
Cadmium	BRL	0.33	<0.37	<0.33	NC	91.2	98.8	8.0	93.4	93.3	0.1	75 - 125	30	
Chromium	BRL	0.33	9.41	7.84	18.2	102	105	2.9	100	99.5	0.5	75 - 125	30	
Lead	0.37	0.33	14.8	8.03	59.3	97.9	103	5.1	91.5	93.1	1.7	75 - 125	30	r
Selenium	BRL	1.3	<1.5	<1.3	NC	90.7	94.1	3.7	76.4	76.5	0.1	75 - 125	30	
Silver	BRL	0.33	<0.37	<0.33	NC	102	104	1.9	97.0	96.6	0.4	75 - 125	30	
QA/QC Batch 329954 (mg/L), QC Sample No: BK40712 (BK40712)														
ICP Metals - Dissolved														
Arsenic	BRL	0.004	<0.004	<0.004	NC	86.7	87.1	0.5	87.9	88.4	0.6	75 - 125	20	
Barium	BRL	0.002	<0.002	<0.002	NC	94.8	95.1	0.3	98.4	96.0	2.5	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	88.3	87.8	0.6	90.7	94.8	4.4	75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	88.4	87.9	0.6	90.8	92.6	2.0	75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	90.3	90.0	0.3	92.0	93.9	2.0	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	88.4	88.4	0.0	90.5	90.9	0.4	75 - 125	20	
QA/QC Batch 330536 (mg/L), QC Sample No: BK43848 (BK40712)														
Selenium (Dissolved)	BRL	0.002	<0.004	0.004	NC	109	109	0.0	108	110	1.8	75 - 125	20	

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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QA/QC Report

December 31, 2015

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 329656 (mg/L), QC Sample No: BK39278 (BK40712)										
TPH by GC (Extractable Products) - Ground Water										
Unidentified	ND	0.070	73	68	7.1				60 - 120	30
% n-Pentacosane	71	%	78	74	5.3				50 - 150	20
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
QA/QC Batch 329896 (mg/Kg), QC Sample No: BK40264 (BK40702, BK40703)										
TPH by GC (Extractable Products) - Solid										
Unidentified	ND	50	75	65	14.3	55			60 - 120	30
% n-Pentacosane	75	%	74	72	2.7	61			50 - 150	30
QA/QC Batch 330574 (ug/kg), QC Sample No: BK40702 (BK40702, BK40706, BK40707, BK40708)										
Volatiles - Solid										
1,1,1,2-Tetrachloroethane	ND	5.0	111	107	3.7	94	96	2.1	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	110	104	5.6	95	96	1.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	121	109	10.4	102	101	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	107	102	4.8	99	98	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	110	101	8.5	93	95	2.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	110	103	6.6	95	98	3.1	70 - 130	30
1,1-Dichloropropene	ND	5.0	108	108	0.0	105	104	1.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	106	107	0.9	96	97	1.0	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	116	105	10.0	100	99	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	103	110	6.6	97	98	1.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	109	110	0.9	102	103	1.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	118	104	12.6	96	102	6.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	114	105	8.2	102	101	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	105	105	0.0	97	97	0.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	109	103	5.7	98	97	1.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	104	101	2.9	99	97	2.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	110	110	0.0	103	103	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	107	106	0.9	100	99	1.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	112	105	6.5	98	99	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	106	105	0.9	99	100	1.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	107	104	2.8	88	92	4.4	70 - 130	30
2-Chlorotoluene	ND	5.0	110	111	0.9	104	104	0.0	70 - 130	30
2-Hexanone	ND	25	109	91	18.0	92	94	2.2	70 - 130	30
2-Isopropyltoluene	ND	5.0	113	112	0.9	105	104	1.0	70 - 130	30
4-Chlorotoluene	ND	5.0	106	107	0.9	100	100	0.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	111	96	14.5	95	96	1.0	70 - 130	30
Acetone	ND	10	93	75	21.4	93	95	2.1	70 - 130	30
Acrylonitrile	ND	5.0	116	96	18.9	92	93	1.1	70 - 130	30
Benzene	ND	1.0	108	105	2.8	100	101	1.0	70 - 130	30
Bromobenzene	ND	5.0	111	108	2.7	102	103	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromochloromethane	ND	5.0	112	103	8.4	98	99	1.0	70 - 130	30
Bromodichloromethane	ND	5.0	110	108	1.8	96	98	2.1	70 - 130	30
Bromoform	ND	5.0	120	113	6.0	84	88	4.7	70 - 130	30
Bromomethane	ND	5.0	95	95	0.0	84	89	5.8	70 - 130	30
Carbon Disulfide	ND	5.0	109	103	5.7	96	97	1.0	70 - 130	30
Carbon tetrachloride	ND	5.0	109	105	3.7	86	90	4.5	70 - 130	30
Chlorobenzene	ND	5.0	107	105	1.9	97	99	2.0	70 - 130	30
Chloroethane	ND	5.0	107	101	5.8	88	93	5.5	70 - 130	30
Chloroform	ND	5.0	106	100	5.8	93	95	2.1	70 - 130	30
Chloromethane	ND	5.0	107	102	4.8	92	94	2.2	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	109	102	6.6	97	98	1.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	105	102	2.9	96	94	2.1	70 - 130	30
Dibromochloromethane	ND	3.0	118	111	6.1	92	94	2.2	70 - 130	30
Dibromomethane	ND	5.0	109	104	4.7	96	98	2.1	70 - 130	30
Dichlorodifluoromethane	ND	5.0	110	111	0.9	99	99	0.0	70 - 130	30
Ethylbenzene	ND	1.0	108	105	2.8	100	100	0.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	105	108	2.8	99	101	2.0	70 - 130	30
Isopropylbenzene	ND	1.0	111	111	0.0	104	104	0.0	70 - 130	30
m&p-Xylene	ND	2.0	107	106	0.9	99	101	2.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	106	90	16.3	86	88	2.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	115	104	10.0	99	100	1.0	70 - 130	30
Methylene chloride	ND	5.0	103	95	8.1	118	105	11.7	70 - 130	30
Naphthalene	ND	5.0	120	114	5.1	106	107	0.9	70 - 130	30
n-Butylbenzene	ND	1.0	107	110	2.8	101	101	0.0	70 - 130	30
n-Propylbenzene	ND	1.0	107	107	0.0	99	102	3.0	70 - 130	30
o-Xylene	ND	2.0	109	106	2.8	100	100	0.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	109	111	1.8	104	104	0.0	70 - 130	30
sec-Butylbenzene	ND	1.0	114	112	1.8	106	106	0.0	70 - 130	30
Styrene	ND	5.0	109	107	1.9	101	103	2.0	70 - 130	30
tert-Butylbenzene	ND	1.0	112	108	3.6	104	103	1.0	70 - 130	30
Tetrachloroethene	ND	5.0	102	104	1.9	101	100	1.0	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	117	96	19.7	94	97	3.1	70 - 130	30
Toluene	ND	1.0	105	105	0.0	100	100	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	107	105	1.9	97	98	1.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	109	104	4.7	97	98	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	125	112	11.0	97	97	0.0	70 - 130	30
Trichloroethene	ND	5.0	106	105	0.9	101	101	0.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	107	102	4.8	91	94	3.2	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	104	102	1.9	93	94	1.1	70 - 130	30
Vinyl chloride	ND	5.0	105	100	4.9	93	96	3.2	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	101	99	2.0	101	99	2.0	70 - 130	30
% Bromofluorobenzene	97	%	99	100	1.0	99	98	1.0	70 - 130	30
% Dibromofluoromethane	96	%	102	101	1.0	98	101	3.0	70 - 130	30
% Toluene-d8	100	%	98	99	1.0	100	100	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 329894 (ug/Kg), QC Sample No: BK40702 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709)

Semivolatiles - Solid

1,2,4,5-Tetrachlorobenzene	ND	230	71	74	4.1	66			30 - 130	30
1,2,4-Trichlorobenzene	ND	230	69	67	2.9	64			30 - 130	30
1,2-Dichlorobenzene	ND	180	67	64	4.6	62			30 - 130	30

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Diphenylhydrazine	ND	230	89	93	4.4	71			30 - 130	30	
1,3-Dichlorobenzene	ND	230	64	61	4.8	58			30 - 130	30	
1,4-Dichlorobenzene	ND	230	62	59	5.0	57			30 - 130	30	
2,4,5-Trichlorophenol	ND	230	83	87	4.7	74			30 - 130	30	
2,4,6-Trichlorophenol	ND	130	80	87	8.4	74			30 - 130	30	
2,4-Dichlorophenol	ND	130	73	74	1.4	67			30 - 130	30	
2,4-Dimethylphenol	ND	230	75	75	0.0	66			30 - 130	30	
2,4-Dinitrophenol	ND	230	13	17	26.7	40			30 - 130	30	l
2,4-Dinitrotoluene	ND	130	83	90	8.1	74			30 - 130	30	
2,6-Dinitrotoluene	ND	130	79	84	6.1	71			30 - 130	30	
2-Chloronaphthalene	ND	230	74	75	1.3	70			30 - 130	30	
2-Chlorophenol	ND	230	75	74	1.3	73			30 - 130	30	
2-Methylnaphthalene	ND	230	75	78	3.9	68			30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	73	74	1.4	71			30 - 130	30	
2-Nitroaniline	ND	330	78	87	10.9	79			30 - 130	30	
2-Nitrophenol	ND	230	81	78	3.8	74			30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	79	80	1.3	77			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	76	81	6.4	66			30 - 130	30	
3-Nitroaniline	ND	330	72	78	8.0	65			30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	26	32	20.7	65			30 - 130	30	l
4-Bromophenyl phenyl ether	ND	230	81	88	8.3	75			30 - 130	30	
4-Chloro-3-methylphenol	ND	230	84	86	2.4	76			30 - 130	30	
4-Chloroaniline	ND	230	79	83	4.9	69			30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	80	83	3.7	72			30 - 130	30	
4-Nitroaniline	ND	230	86	93	7.8	76			30 - 130	30	
4-Nitrophenol	ND	230	85	91	6.8	79			30 - 130	30	
Acenaphthene	ND	230	79	81	2.5	72			30 - 130	30	
Acenaphthylene	ND	130	76	77	1.3	68			30 - 130	30	
Acetophenone	ND	230	73	70	4.2	71			30 - 130	30	
Aniline	ND	330	69	65	6.0	74			30 - 130	30	
Anthracene	ND	230	82	88	7.1	76			30 - 130	30	
Benz(a)anthracene	ND	230	82	89	8.2	75			30 - 130	30	
Benzidine	ND	330	29	26	10.9	23			30 - 130	30	l,m
Benzo(a)pyrene	ND	130	80	86	7.2	71			30 - 130	30	
Benzo(b)fluoranthene	ND	160	80	89	10.7	72			30 - 130	30	
Benzo(ghi)perylene	ND	230	83	89	7.0	73			30 - 130	30	
Benzo(k)fluoranthene	ND	230	87	93	6.7	75			30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	34			30 - 130	30	l
Benzyl butyl phthalate	ND	230	86	92	6.7	76			30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	74	75	1.3	66			30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	64	63	1.6	62			30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	55	52	5.6	50			30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	83	91	9.2	74			30 - 130	30	
Carbazole	ND	330	85	89	4.6	74			30 - 130	30	
Chrysene	ND	230	86	92	6.7	78			30 - 130	30	
Dibenz(a,h)anthracene	ND	130	87	91	4.5	71			30 - 130	30	
Dibenzofuran	ND	230	80	83	3.7	70			30 - 130	30	
Diethyl phthalate	ND	230	85	89	4.6	77			30 - 130	30	
Dimethylphthalate	ND	230	81	85	4.8	73			30 - 130	30	
Di-n-butylphthalate	ND	230	89	95	6.5	81			30 - 130	30	
Di-n-octylphthalate	ND	230	85	92	7.9	77			30 - 130	30	
Fluoranthene	ND	230	86	91	5.6	77			30 - 130	30	
Fluorene	ND	230	82	86	4.8	73			30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Hexachlorobenzene	ND	130	85	92	7.9	77			30 - 130	30
Hexachlorobutadiene	ND	230	70	70	0.0	63			30 - 130	30
Hexachlorocyclopentadiene	ND	230	74	75	1.3	66			30 - 130	30
Hexachloroethane	ND	130	64	58	9.8	57			30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	82	86	4.8	70			30 - 130	30
Isophorone	ND	130	74	74	0.0	66			30 - 130	30
Naphthalene	ND	230	70	70	0.0	65			30 - 130	30
Nitrobenzene	ND	130	78	77	1.3	73			30 - 130	30
N-Nitrosodimethylamine	ND	230	65	61	6.3	66			30 - 130	30
N-Nitrosodi-n-propylamine	ND	130	81	76	6.4	76			30 - 130	30
N-Nitrosodiphenylamine	ND	130	83	88	5.8	75			30 - 130	30
Pentachloronitrobenzene	ND	230	90	90	0.0	83			30 - 130	30
Pentachlorophenol	ND	230	65	69	6.0	74			30 - 130	30
Phenanthrene	ND	130	83	88	5.8	75			30 - 130	30
Phenol	ND	230	79	78	1.3	75			30 - 130	30
Pyrene	ND	230	86	93	7.8	80			30 - 130	30
Pyridine	ND	230	47	44	6.6	50			30 - 130	30
% 2,4,6-Tribromophenol	79	%	85	90	5.7	80			30 - 130	30
% 2-Fluorobiphenyl	77	%	72	75	4.1	67			30 - 130	30
% 2-Fluorophenol	61	%	70	68	2.9	56			30 - 130	30
% Nitrobenzene-d5	73	%	74	73	1.4	71			30 - 130	30
% Phenol-d5	70	%	79	76	3.9	70			30 - 130	30
% Terphenyl-d14	84	%	83	89	7.0	75			30 - 130	30

Comment:

MSD not reported for this batch.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 329897 (mg/Kg), QC Sample No: BK40709 (BK40704, BK40705, BK40706, BK40707, BK40708, BK40709)

TPH by GC (Extractable Products) - Solid

Unidentified	ND	50	71	68	4.3	129	99	26.3	60 - 120	30
% n-Pentacosane	30	%	83	76	8.8	101	85	17.2	50 - 150	30

QA/QC Batch 329927 (ug/L), QC Sample No: BK40712 (BK40712)

Semivolatiles (SIM) - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	0.50	80	75	6.5				30 - 130	20
2-Methylnaphthalene	ND	0.02	109	105	3.7				30 - 130	20
Acenaphthene	ND	0.02	95	91	4.3				30 - 130	20
Acenaphthylene	ND	0.02	95	91	4.3				30 - 130	20
Anthracene	ND	0.02	103	100	3.0				30 - 130	20
Benz(a)anthracene	ND	0.02	90	88	2.2				30 - 130	20
Benzo(a)pyrene	ND	0.02	93	89	4.4				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	100	104	3.9				30 - 130	20
Benzo(ghi)perylene	ND	0.02	74	78	5.3				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	106	102	3.8				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	0.10	113	102	10.2				30 - 130	20
Chrysene	ND	0.02	93	91	2.2				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	79	84	6.1				30 - 130	20
Fluoranthene	ND	0.02	100	102	2.0				30 - 130	20
Fluorene	ND	0.02	95	95	0.0				30 - 130	20
Hexachlorobenzene	ND	0.02	106	102	3.8				30 - 130	20
Hexachlorobutadiene	ND	0.05	66	58	12.9				30 - 130	20
Hexachloroethane	ND	0.05	58	47	21.0				30 - 130	20

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Indeno(1,2,3-cd)pyrene	ND	0.02	57	61	6.8				30 - 130	20	
Naphthalene	ND	0.02	69	61	12.3				30 - 130	20	
Nitrobenzene	ND	0.05	80	68	16.2				30 - 130	20	
Pentachloronitrobenzene	ND	0.10	113	111	1.8				30 - 130	20	
Pentachlorophenol	ND	0.20	130	153	16.3				30 - 130	20	l
Phenanthrene	ND	0.02	96	93	3.2				30 - 130	20	
Pyrene	ND	0.02	100	101	1.0				30 - 130	20	
Pyridine	ND	0.50	38	28	30.3				30 - 130	20	l,r
% 2,4,6-Tribromophenol	79	%	109	116	6.2				15 - 110	20	l
% 2-Fluorobiphenyl	64	%	85	78	8.6				30 - 130	20	
% 2-Fluorophenol	48	%	50	41	19.8				15 - 110	20	
% Nitrobenzene-d5	66	%	74	64	14.5				30 - 130	20	
% Phenol-d5	56	%	58	58	0.0				15 - 110	20	
% Terphenyl-d14	92	%	102	102	0.0				30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 329927 (ug/L), QC Sample No: BK40712 (BK40712)

Semivolatiles - Ground Water

1,2,4-Trichlorobenzene	ND	3.5	62	54	13.8				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	58	43	29.7				30 - 130	20	r
1,2-Diphenylhydrazine	ND	1.6	84	85	1.2				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	51	39	26.7				30 - 130	20	r
1,4-Dichlorobenzene	ND	1.0	59	44	29.1				30 - 130	20	r
2,4,5-Trichlorophenol	ND	1.0	92	95	3.2				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	90	89	1.1				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	82	74	10.3				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	66	58	12.9				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	135	131	3.0				30 - 130	20	l
2,4-Dinitrotoluene	ND	3.5	90	89	1.1				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	87	87	0.0				30 - 130	20	
2-Chloronaphthalene	ND	3.5	88	84	4.7				30 - 130	20	
2-Chlorophenol	ND	1.0	55	43	24.5				30 - 130	20	r
2-Methylphenol (o-cresol)	ND	1.0	67	57	16.1				30 - 130	20	
2-Nitroaniline	ND	3.5	99	95	4.1				30 - 130	20	
2-Nitrophenol	ND	1.0	87	70	21.7				30 - 130	20	r
3&4-Methylphenol (m&p-cresol)	ND	1.0	72	65	10.2				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	57	46	21.4				30 - 130	20	r
3-Nitroaniline	ND	5.0	80	76	5.1				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	128	129	0.8				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	100	95	5.1				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	92	85	7.9				30 - 130	20	
4-Chloroaniline	ND	3.5	74	64	14.5				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	95	92	3.2				30 - 130	20	
4-Nitroaniline	ND	5.0	90	86	4.5				30 - 130	20	
4-Nitrophenol	ND	1.0	104	105	1.0				15 - 130	20	
Acetophenone	ND	3.5	67	54	21.5				30 - 130	20	r
Aniline	ND	3.5	54	37	37.4				30 - 130	20	r
Benzidine	ND	4.5	22	<10	NC				30 - 130	20	l
Benzoic acid	ND	10	97	89	8.6				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	83	80	3.7				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	72	63	13.3				30 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bis(2-chloroethyl)ether	ND	1.0	55	42	26.8				30 - 130	20	r
Bis(2-chloroisopropyl)ether	ND	1.0	56	41	30.9				30 - 130	20	r
Carbazole	ND	5.0	93	92	1.1				30 - 130	20	
Dibenzofuran	ND	3.5	90	87	3.4				30 - 130	20	
Diethyl phthalate	ND	1.5	86	86	0.0				30 - 130	20	
Dimethylphthalate	ND	1.5	83	83	0.0				30 - 130	20	
Di-n-butylphthalate	ND	1.5	96	93	3.2				30 - 130	20	
Di-n-octylphthalate	ND	1.5	80	78	2.5				30 - 130	20	
Hexachlorocyclopentadiene	ND	3.5	59	43	31.4				30 - 130	20	r
Isophorone	ND	3.5	73	66	10.1				30 - 130	20	
N-Nitrosodimethylamine	ND	1.0	39	28	32.8				30 - 130	20	l,r
N-Nitrosodi-n-propylamine	ND	3.5	76	65	15.6				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	85	82	3.6				30 - 130	20	
Phenol	ND	1.0	53	48	9.9				15 - 130	20	
% 2,4,6-Tribromophenol	61	%	99	94	5.2				15 - 110	20	
% 2-Fluorobiphenyl	60	%	78	74	5.3				30 - 130	20	
% 2-Fluorophenol	38	%	41	32	24.7				15 - 110	20	r
% Nitrobenzene-d5	55	%	67	53	23.3				30 - 130	20	r
% Phenol-d5	40	%	50	47	6.2				15 - 110	20	
% Terphenyl-d14	87	%	105	104	1.0				30 - 130	20	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 330583 (ug/kg), QC Sample No: BK41411 (BK40709, BK40710, BK40711 (50X))

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	104	103	1.0	97	96	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	104	101	2.9	95	96	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	99	98	1.0	91	91	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	101	102	1.0	97	97	0.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	105	104	1.0	98	98	0.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	106	105	0.9	97	98	1.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	109	108	0.9	105	103	1.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	94	112	17.5	82	83	1.2	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	89	88	1.1	83	81	2.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	87	108	21.5	80	80	0.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	102	107	4.8	95	96	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	98	101	3.0	90	91	1.1	70 - 130	30	
1,2-Dibromoethane	ND	5.0	99	100	1.0	95	93	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	98	104	5.9	88	89	1.1	70 - 130	30	
1,2-Dichloroethane	ND	5.0	98	100	2.0	92	88	4.4	70 - 130	30	
1,2-Dichloropropane	ND	5.0	108	108	0.0	102	100	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	104	107	2.8	97	98	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	94	103	9.1	87	88	1.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	97	99	2.0	93	91	2.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	96	104	8.0	87	88	1.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	101	103	2.0	93	93	0.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	102	105	2.9	96	97	1.0	70 - 130	30	
2-Hexanone	ND	25	91	91	0.0	82	79	3.7	70 - 130	30	
2-Isopropyltoluene	ND	5.0	106	107	0.9	95	95	0.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	97	101	4.0	89	89	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	95	96	1.0	91	86	5.6	70 - 130	30	
Acetone	ND	10	81	84	3.6	70	69	1.4	70 - 130	30	m

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acrylonitrile	ND	5.0	97	97	0.0	89	86	3.4	70 - 130	30	
Benzene	ND	1.0	107	106	0.9	103	102	1.0	70 - 130	30	
Bromobenzene	ND	5.0	101	103	2.0	95	94	1.1	70 - 130	30	
Bromochloromethane	ND	5.0	101	101	0.0	96	94	2.1	70 - 130	30	
Bromodichloromethane	ND	5.0	106	107	0.9	98	96	2.1	70 - 130	30	
Bromoform	ND	5.0	102	100	2.0	89	89	0.0	70 - 130	30	
Bromomethane	ND	5.0	110	107	2.8	98	100	2.0	70 - 130	30	
Carbon Disulfide	ND	5.0	104	103	1.0	95	96	1.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	105	104	1.0	95	96	1.0	70 - 130	30	
Chlorobenzene	ND	5.0	102	103	1.0	96	96	0.0	70 - 130	30	
Chloroethane	ND	5.0	111	110	0.9	101	101	0.0	70 - 130	30	
Chloroform	ND	5.0	97	97	0.0	91	91	0.0	70 - 130	30	
Chloromethane	ND	5.0	121	124	2.4	117	115	1.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	106	106	0.0	100	100	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	103	107	3.8	97	95	2.1	70 - 130	30	
Dibromochloromethane	ND	3.0	107	107	0.0	97	95	2.1	70 - 130	30	
Dibromomethane	ND	5.0	102	103	1.0	96	93	3.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	152	155	2.0	151	151	0.0	70 - 130	30	l,m
Ethylbenzene	ND	1.0	104	105	1.0	100	99	1.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	111	8.5	84	76	10.0	70 - 130	30	
Isopropylbenzene	ND	1.0	106	105	0.9	99	99	0.0	70 - 130	30	
m&p-Xylene	ND	2.0	101	104	2.9	98	97	1.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	88	89	1.1	77	74	4.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	92	93	1.1	85	84	1.2	70 - 130	30	
Methylene chloride	ND	5.0	101	102	1.0	99	98	1.0	70 - 130	30	
Naphthalene	ND	5.0	106	118	10.7	100	98	2.0	70 - 130	30	
n-Butylbenzene	ND	1.0	102	112	9.3	93	91	2.2	70 - 130	30	
n-Propylbenzene	ND	1.0	104	105	1.0	96	96	0.0	70 - 130	30	
o-Xylene	ND	2.0	104	105	1.0	99	98	1.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	107	112	4.6	98	97	1.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	109	110	0.9	98	97	1.0	70 - 130	30	
Styrene	ND	5.0	101	103	2.0	94	93	1.1	70 - 130	30	
tert-Butylbenzene	ND	1.0	107	106	0.9	97	97	0.0	70 - 130	30	
Tetrachloroethene	ND	5.0	108	110	1.8	106	104	1.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	90	90	0.0	88	84	4.7	70 - 130	30	
Toluene	ND	1.0	108	107	0.9	103	102	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	110	113	2.7	109	110	0.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	100	103	3.0	91	90	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	98	103	5.0	88	87	1.1	70 - 130	30	
Trichloroethene	ND	5.0	106	106	0.0	103	102	1.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	108	107	0.9	98	97	1.0	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	107	106	0.9	97	97	0.0	70 - 130	30	
Vinyl chloride	ND	5.0	123	123	0.0	113	115	1.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	101	102	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	98	98	0.0	98	98	0.0	70 - 130	30	
% Dibromofluoromethane	103	%	99	104	4.9	102	103	1.0	70 - 130	30	
% Toluene-d8	91	%	103	103	0.0	104	103	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 330586 (ug/kg), QC Sample No: BK41413 (BK40703, BK40704, BK40705)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	102	111	8.5	97	96	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1-Trichloroethane	ND	5.0	99	107	7.8	99	96	3.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	111	121	8.6	109	103	5.7	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	100	112	11.3	100	98	2.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	98	107	8.8	98	95	3.1	70 - 130	30	
1,1-Dichloroethene	ND	5.0	98	106	7.8	102	98	4.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	105	114	8.2	107	106	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	99	106	6.8	98	95	3.1	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	105	117	10.8	105	101	3.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	96	101	5.1	98	93	5.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	103	111	7.5	104	100	3.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	107	123	13.9	98	95	3.1	70 - 130	30	
1,2-Dibromoethane	ND	5.0	108	118	8.8	104	100	3.9	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	101	109	7.6	101	96	5.1	70 - 130	30	
1,2-Dichloroethane	ND	5.0	102	112	9.3	99	97	2.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	101	110	8.5	100	98	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	105	112	6.5	105	101	3.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	99	108	8.7	101	96	5.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	104	115	10.0	102	97	5.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	100	107	6.8	100	96	4.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	92	104	12.2	93	91	2.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	104	114	9.2	107	103	3.8	70 - 130	30	
2-Hexanone	ND	25	98	107	8.8	92	90	2.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	107	116	8.1	108	104	3.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	100	109	8.6	103	98	5.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	99	112	12.3	96	95	1.0	70 - 130	30	
Acetone	ND	10	78	85	8.6	94	93	1.1	70 - 130	30	
Acrylonitrile	ND	5.0	102	110	7.5	96	92	4.3	70 - 130	30	
Benzene	ND	1.0	103	112	8.4	103	103	0.0	70 - 130	30	
Bromobenzene	ND	5.0	110	115	4.4	107	99	7.8	70 - 130	30	
Bromochloromethane	ND	5.0	103	111	7.5	100	95	5.1	70 - 130	30	
Bromodichloromethane	ND	5.0	103	114	10.1	98	97	1.0	70 - 130	30	
Bromoform	ND	5.0	100	112	11.3	85	87	2.3	70 - 130	30	
Bromomethane	ND	5.0	93	96	3.2	90	87	3.4	70 - 130	30	
Carbon Disulfide	ND	5.0	99	106	6.8	100	99	1.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	93	103	10.2	90	92	2.2	70 - 130	30	
Chlorobenzene	ND	5.0	101	111	9.4	103	97	6.0	70 - 130	30	
Chloroethane	ND	5.0	99	102	3.0	93	96	3.2	70 - 130	30	
Chloroform	ND	5.0	98	107	8.8	99	95	4.1	70 - 130	30	
Chloromethane	ND	5.0	99	103	4.0	97	96	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	101	109	7.6	101	97	4.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	98	108	9.7	95	94	1.1	70 - 130	30	
Dibromochloromethane	ND	3.0	104	116	10.9	96	93	3.2	70 - 130	30	
Dibromomethane	ND	5.0	102	111	8.5	101	97	4.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	97	103	6.0	110	108	1.8	70 - 130	30	
Ethylbenzene	ND	1.0	103	111	7.5	104	102	1.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	111	8.5	102	99	3.0	70 - 130	30	
Isopropylbenzene	ND	1.0	105	116	10.0	108	103	4.7	70 - 130	30	
m&p-Xylene	ND	2.0	102	111	8.5	103	99	4.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	93	101	8.2	95	88	7.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	101	112	10.3	101	97	4.0	70 - 130	30	
Methylene chloride	ND	5.0	96	102	6.1	134	120	11.0	70 - 130	30	m
Naphthalene	ND	5.0	112	123	9.4	110	104	5.6	70 - 130	30	
n-Butylbenzene	ND	1.0	99	107	7.8	103	100	3.0	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
n-Propylbenzene	ND	1.0	101	110	8.5	104	100	3.9	70 - 130	30	
o-Xylene	ND	2.0	103	111	7.5	103	99	4.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	105	114	8.2	106	103	2.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	108	117	8.0	110	106	3.7	70 - 130	30	
Styrene	ND	5.0	105	113	7.3	104	99	4.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	107	115	7.2	107	103	3.8	70 - 130	30	
Tetrachloroethene	ND	5.0	99	108	8.7	101	100	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	100	111	10.4	101	97	4.0	70 - 130	30	
Toluene	ND	1.0	100	110	9.5	103	100	3.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	99	109	9.6	102	99	3.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	101	110	8.5	96	95	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	106	117	9.9	99	95	4.1	70 - 130	30	
Trichloroethene	ND	5.0	101	111	9.4	102	103	1.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	95	100	5.1	96	97	1.0	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	93	102	9.2	97	97	0.0	70 - 130	30	
Vinyl chloride	ND	5.0	98	103	5.0	101	99	2.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	100	101	1.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	98	%	98	99	1.0	100	99	1.0	70 - 130	30	
% Dibromofluoromethane	98	%	100	102	2.0	101	102	1.0	70 - 130	30	
% Toluene-d8	100	%	100	101	1.0	99	100	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 330646 (ug/L), QC Sample No: BK43848 (BK40712)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	101	105	3.9	94	81	14.9	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	96	103	7.0	99	79	22.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	100	103	3.0	104	99	4.9	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	98	98	0.0	95	85	11.1	70 - 130	30	
1,1-Dichloroethane	ND	1.0	96	101	5.1	97	80	19.2	70 - 130	30	
1,1-Dichloroethene	ND	1.0	97	101	4.0	101	80	23.2	70 - 130	30	
1,1-Dichloropropene	ND	1.0	100	104	3.9	103	83	21.5	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	110	105	4.7	89	87	2.3	70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	101	105	3.9	94	88	6.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	111	105	5.6	96	90	6.5	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	102	107	4.8	96	83	14.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	110	98	11.5	95	96	1.0	70 - 130	30	
1,2-Dibromoethane	ND	1.0	102	103	1.0	97	87	10.9	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	100	102	2.0	92	83	10.3	70 - 130	30	
1,2-Dichloroethane	ND	1.0	95	98	3.1	91	80	12.9	70 - 130	30	
1,2-Dichloropropane	ND	1.0	98	102	4.0	96	81	16.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	102	109	6.6	97	85	13.2	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	101	105	3.9	92	82	11.5	70 - 130	30	
1,3-Dichloropropane	ND	1.0	100	101	1.0	93	84	10.2	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	99	104	4.9	93	82	12.6	70 - 130	30	
2,2-Dichloropropane	ND	1.0	107	110	2.8	89	70	23.9	70 - 130	30	
2-Chlorotoluene	ND	1.0	101	110	8.5	97	84	14.4	70 - 130	30	
2-Hexanone	ND	5.0	96	97	1.0	96	88	8.7	70 - 130	30	
2-Isopropyltoluene	ND	1.0	103	109	5.7	99	87	12.9	70 - 130	30	
4-Chlorotoluene	ND	1.0	99	105	5.9	94	80	16.1	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	95	95	0.0	97	88	9.7	70 - 130	30	
Acetone	ND	5.0	96	101	5.1	68	53	24.8	70 - 130	30	m
Acrylonitrile	ND	5.0	99	102	3.0	92	88	4.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzene	ND	0.70	99	104	4.9	99	82	18.8	70 - 130	30	
Bromobenzene	ND	1.0	101	106	4.8	95	84	12.3	70 - 130	30	
Bromochloromethane	ND	1.0	99	100	1.0	95	81	15.9	70 - 130	30	
Bromodichloromethane	ND	0.50	101	107	5.8	95	83	13.5	70 - 130	30	
Bromoform	ND	1.0	106	106	0.0	89	83	7.0	70 - 130	30	
Bromomethane	ND	1.0	116	127	9.1	81	81	0.0	70 - 130	30	
Carbon Disulfide	ND	1.0	105	107	1.9	107	86	21.8	70 - 130	30	
Carbon tetrachloride	ND	1.0	97	102	5.0	97	78	21.7	70 - 130	30	
Chlorobenzene	ND	1.0	98	102	4.0	94	80	16.1	70 - 130	30	
Chloroethane	ND	1.0	98	109	10.6	103	84	20.3	70 - 130	30	
Chloroform	ND	1.0	96	100	4.1	94	78	18.6	70 - 130	30	
Chloromethane	ND	1.0	111	116	4.4	108	88	20.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	97	102	5.0	96	79	19.4	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	100	102	2.0	91	79	14.1	70 - 130	30	
Dibromochloromethane	ND	0.50	105	106	0.9	94	83	12.4	70 - 130	30	
Dibromomethane	ND	1.0	95	94	1.1	91	79	14.1	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	128	132	3.1	136	103	27.6	70 - 130	30	l,m
Ethylbenzene	ND	1.0	102	107	4.8	99	83	17.6	70 - 130	30	
Hexachlorobutadiene	ND	0.40	112	107	4.6	94	86	8.9	70 - 130	30	
Isopropylbenzene	ND	1.0	101	108	6.7	98	86	13.0	70 - 130	30	
m&p-Xylene	ND	1.0	102	107	4.8	98	83	16.6	70 - 130	30	
Methyl ethyl ketone	ND	5.0	100	94	6.2	95	96	1.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	99	99	0.0	99	87	12.9	70 - 130	30	
Methylene chloride	ND	1.0	96	108	11.8	101	84	18.4	70 - 130	30	
Naphthalene	ND	1.0	116	108	7.1	102	103	1.0	70 - 130	30	
n-Butylbenzene	ND	1.0	105	111	5.6	98	87	11.9	70 - 130	30	
n-Propylbenzene	ND	1.0	100	106	5.8	95	83	13.5	70 - 130	30	
o-Xylene	ND	1.0	102	107	4.8	98	82	17.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	111	4.6	101	89	12.6	70 - 130	30	
sec-Butylbenzene	ND	1.0	104	111	6.5	100	88	12.8	70 - 130	30	
Styrene	ND	1.0	104	106	1.9	98	84	15.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	101	109	7.6	98	85	14.2	70 - 130	30	
Tetrachloroethene	ND	1.0	100	104	3.9	101	82	20.8	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	93	93	0.0	89	83	7.0	70 - 130	30	
Toluene	ND	1.0	98	104	5.9	100	79	23.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	99	105	5.9	102	82	21.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	101	102	1.0	91	81	11.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	113	113	0.0	76	71	6.8	70 - 130	30	
Trichloroethene	ND	1.0	100	105	4.9	98	80	20.2	70 - 130	30	
Trichlorofluoromethane	ND	1.0	96	100	4.1	103	81	23.9	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	94	98	4.2	102	79	25.4	70 - 130	30	
Vinyl chloride	ND	1.0	105	115	9.1	114	91	22.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	100	1.0	102	100	2.0	70 - 130	30	
% Bromofluorobenzene	95	%	102	100	2.0	116	112	3.5	70 - 130	30	
% Dibromofluoromethane	101	%	97	96	1.0	98	96	2.1	70 - 130	30	
% Toluene-d8	100	%	101	100	1.0	101	100	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GBK40702

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
December 31, 2015

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedences Report

GBK40702 - MAGU-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK40709	TCLP-PB	TCLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.046	0.010	0.015	0.015	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** CDR Group Inc.

Project Location: SOUTHINGTON MAINTENANCE **Project Number:**

Laboratory Sample ID(s): BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709, BK40710, BK40711, BK40712

Sampling Date(s): 12/17/2015

RCP Methods Used:

☑ 1311/1312 ☑ 6010 ☑ 7000 ☐ 7196 ☑ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1a.	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ICP Narration, SVOA Narration, SVOASIM Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☑ Yes ☐ No ☐ NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Date: Thursday, December 31, 2015

Authorized Signature: Ethan Lee

Printed Name: Ethan Lee

Position: Project Manager

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Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

Selenium Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Zeeman 12/29/15-1 (BK40712)

Printed Name Rick Schweitzer
Position: Chemist
Date: 12/29/2015

QC (Batch Specific)

---------- Sample No: BK43848, QA/QC Batch: 330536 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-fid1 12/18/15-1 (BK40709)

The initial calibration (ETPHD16I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D18A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/18/2015

Instrument: Au-fid11 12/18/15-2 (BK40712)

The initial calibration (ETPHD16I) RSD for the compound list was less than 30% except for the following compounds: None.

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As per section 7.2.3, a discrimination check standard was run (D18A017_1) and contained the following outliers:
C36 (54.6%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BK40712
Preceding CC D18A017 - None.
Succeeding CC D18A029 - ETPH (C9-C36) (99.5%L), Pentacosane (100%L)
A low "1A" standard was run to demonstrate capability to detect these compounds at the indicated RL. All reported samples were ND for these compounds.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/18/2015

Instrument: Au-fid11 12/21/15-1 (BK40707, BK40708, BK40709)

The initial calibration (ETPHD16I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D21A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/21/2015

Instrument: Au-fid84 12/18/15-1 (BK40709)

Initial Calibration (FID84 - ETPH_413) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

The initial calibration (ETPHN17I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D18A003A_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/18/2015

Instrument: Au-fid84 12/21/15-2 (BK40706)

Initial Calibration (FID84 - ETPH_413) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

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As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

The initial calibration (ETPHN17I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D21A016_1) and contained the following outliers:
C36 (49.5%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BK40706
Preceding CC D21A016 - None.
Succeeding CC D21A027 - ETPH (C9-C36) (31%H)

Printed Name Jeff Bucko
Position: Chemist
Date: 12/21/2015

Instrument: Au-xl2 12/18/15-1 (BK40702, BK40703)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

The initial calibration (ETPHD09I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D18A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 12/18/2015

Instrument: Au-xl2 12/21/15-1 (BK40704, BK40705, BK40709)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

The initial calibration (ETPHD09I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (D21A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

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SDG I.D.: GBK40702

Printed Name Jeff Bucko
Position: Chemist
Date: 12/21/2015

QC Comments: QC Batch 329656 12/15/15 (BK40712)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

---------- Sample No: BK39278, QA/QC Batch: 329656 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK40264, QA/QC Batch: 329896 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK40709, QA/QC Batch: 329897 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Mercury Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Merlin 12/18/15-1 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709, BK40712)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

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SDG I.D.: GBK40702

Printed Name Rick Schweitzer
Position: Chemist
Date: 12/18/2015

Instrument: Merlin 12/21/15-1 (BK40707, BK40708, BK40709)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Mike Arsenault
Position: Chemist
Date: 12/21/2015

Instrument: Merlin 12/22/15-1 (BK40712)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 12/22/2015

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QC (Batch Specific)

---------- Sample No: BK40387, QA/QC Batch: 329969 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK40472, QA/QC Batch: 329974 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BK40532, QA/QC Batch: 329972 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BK40705, QA/QC Batch: 329973 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BK40707, QA/QC Batch: 330142 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PHOENIX

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SDG I.D.: GBK40702

ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 329914 (Samples: BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708): -----

A trace amount of an analyte was found in blank. Due to the concentration in the blank relative to the samples, no bias is suspected. (Soil-Lead(BK40708))

Analyte was found in blank. A high bias is suspected. (Soil- Lead(BK40702, BK40703, BK40704, BK40705, BK40706, BK40707))

QC Batch 329935 (Samples: BK40709): -----

A trace amount of an analyte was found in blank. Due to the concentration in the blank relative to the samples, no bias is suspected. (Soil-Lead(BK40709))

Instrument: Arcos 12/19/15-1 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40709)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/19/2015

Instrument: Arcos 12/20/15-1 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40709)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/20/2015

Instrument: Arcos 12/21/15-1 (BK40709)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

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Printed Name Laura Kinnin
Position: Chemist
Date: 12/21/2015

Instrument: Blue 12/17/15-1 (BK40712)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/17/2015

Instrument: Blue 12/18/15-1 (BK40712)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/18/2015

Instrument: Blue 12/19/15-1 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/19/2015

Instrument: Blue 12/20/15-1 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.

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The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 12/20/2015

QC (Batch Specific)

---------- Sample No: BK40503, QA/QC Batch: 329914 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK40537, QA/QC Batch: 329933 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BK40702, QA/QC Batch: 329971 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BK40709, QA/QC Batch: 329935 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK40712, QA/QC Batch: 329954 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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ICPDW

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Blue 12/17/15-1 (BK40712)

The initial calibration met criteria.
The initial continuing calibration standard (CVS) met criteria except for the following elements: (none).
The continuing calibration standards met criteria except for the following reported elements: (none)
The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The CRDL dectection level standard was analyzed and was within criteria except for the following elements: (none)
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria except for the following elements: (none)

Printed Name Laura Kinnin
Position: Chemist
Date: 12/17/2015

Instrument: Blue 12/18/15-1 (BK40712)

The initial calibration met criteria.
The initial continuing calibration standard (CVS) met criteria except for the following elements: (none).
The continuing calibration standards met criteria except for the following reported elements: (none)
The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The CRDL dectection level standard was analyzed and was within criteria except for the following elements: (none)
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria except for the following elements: (none)

Printed Name Laura Kinnin
Position: Chemist
Date: 12/18/2015

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SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 329894 (Samples: BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709): -----

The QC recoveries for one or more analytes are below method criteria. A low bias is possible. (Benzidine)

The LCS and/or LCSD recoveries for one or more analytes is below the method criteria. A low bias for these analytes is possible. (2,4-Dinitrophenol, Benzoic Acid)

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (4,6-Dinitro-2-methylphenol)

QC Batch 329927 (Samples: BK40712): -----

The LCS and/or LCSD recoveries for one or more analytes is below the method criteria. A low bias for these analytes is possible. (Benzidine)

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (2,4-Dinitrophenol)

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (N-Nitrosodimethylamine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chlorophenol, 2-Nitrophenol, 3,3''-Dichlorobenzidine, Acetophenone, Aniline, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, N-Nitrosodimethylamine)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorophenol, % Nitrobenzene-d5)

Instrument: Chem05 12/22/15-1 (BK40712)

Initial Calibration Verification (CHEM05/SV_1123):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane (.288)[0.3]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/1222_02-SV_1123):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

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SDG I.D.: GBK40702

Printed Name Damien Drobinski
Position: Chemist
Date: 12/22/2015

Instrument: Chem06 12/17/15-1 (BK40707)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration Verification (CHEM06/SV_1208):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,1-Biphenyl (22%), 2,4-Dinitrophenol (34%), 4,6-Dinitro-2-methylphenol (30%), Benzidine (21%), Benzoic Acid (28%)
The following compounds did not meet recommended response factors: 2-Nitrophenol (.071)[0.1], Hexachlorobenzene (.093)[0.1]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/1217_02-SV_1208):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: 2,4-dinitrophenol (34%H)[30%], Benzidine (36%H)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.083)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 12/17/2015

Instrument: Chem06 12/21/15-1 (BK40712)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration Verification (CHEM06/BN_1208):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/1221_02-BN_1208):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 12/21/2015

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

RCP Certification Report

December 31, 2015

SDG I.D.: GBK40702

Instrument: Chem19 12/17/15-1 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40708, BK40709)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration Verification (CHEM19/SV_1217):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachlorobenzene (.098)[0.1]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/1217_14-SV_1217):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 12/17/2015

Instrument: Chem19 12/22/15-1 (BK40712)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration Verification (CHEM19/SV_1217):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachlorobenzene (.098)[0.1]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/1222_02-SV_1217):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 12/22/2015

QC Comments: QC Batch 329894 12/17/15 (BK40702, BK40703, BK40704, BK40705, BK40706, BK40707, BK40708, BK40709)

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SDG I.D.: GBK40702

MSD not reported for this batch.

QC (Batch Specific)

---------- Sample No: BK40702, QA/QC Batch: 329894 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(13%), 4,6-Dinitro-2-methylphenol(26%), Benzidine(29%), Benzoic Acid(<10%)

All LCSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(17%), Benzidine(26%), Benzoic Acid(<10%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK40712, QA/QC Batch: 329927 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(135%), Benzidine(22%)

All LCSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(131%), Benzidine(<10%), N-Nitrosodimethylamine(28%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: % 2-Fluorophenol(24.7%), % Nitrobenzene-d5(23.3%), 1,2-Dichlorobenzene(29.7%), 1,3-Dichlorobenzene(26.7%), 1,4-Dichlorobenzene(29.1%), 2-Chlorophenol(24.5%), 2-Nitrophenol(21.7%), 3,3'-Dichlorobenzidine(21.4%), Acetophenone(21.5%), Aniline(37.4%), Bis(2-chloroethyl)ether(26.8%), Bis(2-chloroisopropyl)ether(30.9%), Hexachlorocyclopentadiene(31.4%), N-Nitrosodimethylamine(32.8%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 329927 (Samples: BK40712): -----

The LCS and/or LCSD recoveries for one or more surrogates is outside of criteria. (% 2,4,6-Tribromophenol)

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Pentachlorophenol)

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Pyridine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Hexachloroethane, Pyridine)

Instrument: Chem04 12/21/15-1 (BK40712)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

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SDG I.D.: GBK40702

Initial Calibration Verification (CHEM04/SIM_1208):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 2,4-Dichlorophenol (.195)[0.2], 2-Chlorophenol (.693)[0.8], 2-Nitrophenol (.033)[0.1], 4-Chloro-3-methylphenol (.177)[0.2], Hexachloroethane (.292)[0.3]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/1221_02-SIM_1208):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-chlorophenol (.640)[0.8], 2-nitrophenol (.032)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 12/21/2015

QC (Batch Specific)

---------- Sample No: BK40712, QA/QC Batch: 329927 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: % 2,4,6-Tribromophenol(116%), Pentachlorophenol(153%), Pyridine(28%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: Hexachloroethane(21.0%), Pyridine(30.3%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 330583 (Samples: BK40709, BK40710, BK40711): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane)

QC Batch 330646 (Samples: BK40712): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane)

Instrument: Chem02 12/24/15-2 (BK40712)

Initial Calibration Verification (CHEM02/VT-P1224):

99% of target compounds met criteria.
The following compounds had %RSDs >20%: trans-1,4-Dichloro-2-butene (22%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-Chloropropane (.030)[0.05], 2-Hexanone (.076)[0.1], 4-Methyl-2-Pentanone (.092)[0.1], Acetone (.055)[0.1], Acrolein (.033)[0.05], Bromoform (.075)[0.1], Methyl Ethyl Ketone (.070)[0.1], Tetrahydrofuran (THF) (.048)[0.05]
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/1224P11-VT-P1224):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-dibromo-3-chloropropane (.031)[0.05], Acrolein (.033)[0.05], Bromoform (.082)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Michael Hahn
Position: Chemist
Date: 12/24/2015

Instrument: Chem18 12/23/15-2 (BK40709, BK40710, BK40711)

Initial Calibration Verification (CHEM18/VT-M1223):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Naphthalene (27%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/1223M45-VT-M1223):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Jane Li
Position: Chemist
Date: 12/23/2015

Instrument: Chem26 12/23/15-1 (BK40702, BK40705, BK40706, BK40707, BK40708)

Initial Calibration Verification (CHEM26/VT-1216):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (35%)
The following compounds did not meet recommended response factors: None.

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SDG I.D.: GBK40702

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM26/1223_03-VT-1216):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Jane Li
Position: Chemist
Date: 12/23/2015

Instrument: Chem26 12/23/15-2 (BK40703, BK40704, BK40705)

Initial Calibration Verification (CHEM26/VT-1216):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (35%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM26/1223_37-VT-1216):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Dichlorodifluoromethane (33%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Jane Li
Position: Chemist
Date: 12/23/2015

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SDG I.D.: GBK40702

QC (Batch Specific)

---------- Sample No: BK40702, QA/QC Batch: 330574 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK41411, QA/QC Batch: 330583 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(152%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(155%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK41413, QA/QC Batch: 330586 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BK43848, QA/QC Batch: 330646 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(132%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 4C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Temp 4 °C Pg 1 of

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Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[✓] Phone: 8605633158
[✓] Email: jane.witherell@cdrgroup-inc.com

Customer: CDR Group Inc.
Address: 2080 Silas Deane Hwy
Rocky Hill CT 06067

Project: Southington Maintenance Facility
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - CTDOT c/o CDR
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 12/17/15

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	SVOCs 8270	CT ETPH	Total RCRA 8 Metals	TCLP RCRA 8 Metals	Dissolved RCRA 8 Metals	Soil VOA Vials [ ] methanol [✓] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [✓] HCl	GL Amber 1000ml [✓] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
40702	GP-3 8'-10'	S	12/17/15	10:45am	X	X	X	X	X			1/2	1							
40703	GP-4 8'-10'			10:00am																
40704	GP-6 8'-10'			8:10am																
40705	GP-8 8'-10'			11:15am																
40706	GP-10 2'-4'			8:50am																
40707	GP-12 2'-4'			12:10pm																
40708	GP-13 2'-4'			9:10am																
40709	GP-14 2'-4'			12:45pm																
40710	TB-Low			–	X							2								
40711	TB-High			–	X							1								
40712	FB-1	GW		1:00pm	X	X	X	X		X				3	3			2		

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12-17-15	13:32

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[✓] RCP Cert
[ ] GW Protection
[ ] SW Protection
[✓] GA Mobility
[ ] GB Mobility
[✓] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[ ] Excel
[✓] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[✓] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

APPENDIX C – DQA & DUE WORKSHEETS

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - SOIL SAMPLES
Southington Mantenance Facility Renovation - Southington CT

Laboratory:	Pheonix Environmental Laboratories
SDG:	GBK40702
Date Samples Collected:	December 17, 2015
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	(see notes at end of DQA)

Sample ID	Date Sampled	Compound(s)	QC OUTLIER	POTENTIAL BIAS	COMMENTS	PRELIMINARY DUE CONSIDERATIONS/NOTES
ICP Metals Analysis						
GP-3 8'-10'	12/17/2015	Mercury	MS/MSD	No Bias	Matrix spike used to identify spectral interference, no interference observed and no action taken	No impact to data usability
GP-4 8'-10'						
GP-6 8'-10'						
GP-8 8'-10'						
GP-10 2'-4'						
GP-3 8'-10'	12/17/2015	Barium	MS/MSD	Low	Analytes in site specific matrix spike recovery below lower range. LCS/LCSD recovery acceptable	No impact to data usability
GP-4 8'-10'						
GP-6 8'-10'						
GP-8 8'-10'						
GP-10 2'-4'						
GP-12 2'-4'						
GP-13 2'-4'						
GP-3 8'-10'	12/17/2015	Chromium	MS/MSD	Low	Analytes in site specific matrix spike recovery above upper range. LCS/LCSD recovery acceptable. No criteria reported for one or more LCS RPD	No impact to data usability
GP-4 8'-10'						
GP-6 8'-10'						
GP-8 8'-10'						
GP-10 2'-4'						
GP-12 2'-4'						
GP-13 2'-4'						
GP-13 2'-4'	12/17/2015	Lead	Blank	No Bias	Trace amount of analyte found in black, concentration relative to samples low	No impact to data usability
GP-14 2'-4'						
GP-3 8'-10'	12/17/2015	Lead	Blank	High	Analyte found in blank	No impact to data usability
GP-4 8'-10'						
GP-6 8'-10'						
GP-8 8'-10'						
GP-10 2'-4'						
GP-12 2'-4'						

SVOC Analysis - 8270						
GP-3 8'-10'	12/17/2015	2,4-Dinitrophenol, Benzidine, Benzoic Acid	LCS/LCSD	Low	Analytes below lower range. One or more compound recoveries below 10%. No criteria reported for LCS RPD	No impact to data usability
GP-4 8'-10'						
GP-6 8'-10'						
GP-8 8'-10'						
GP-10 2'-4'						
GP-12 2'-4'						
GP-13 2'-4'						
GP-14 2'-4'						
GP-3 8'-10'	12/17/2015	4,6-Dinitro-2-methylphenol	LCS/LCSD	No Bias	Recovery below method criteria, all other criteria acceptable	No impact to data usability
GP-4 8'-10'						
GP-6 8'-10'						
GP-8 8'-10'						
GP-10 2'-4'						
GP-12 2'-4'						
GP-13 2'-4'						
GP-14 2'-4'						
GP-3 8'-10'	12/17/2015	Benzidine	MS/MSD	Low	Matrix spike recovery below method criteria	No impact to data usability
GP-4 8'-10'						
GP-6 8'-10'						
GP-8 8'-10'						
GP-10 2'-4'						
GP-12 2'-4'						
GP-13 2'-4'						
GP-14 2'-4'						
VOC Analysis - 8260						
GP-14 2'-4'	12/17/2015	Acetone	MS/MSD	No Bias	Analytes in site specific matrix spike recovery below lower range. Less than 10% of 8260 compounds outside of acceptance criteria	
TB-Low						
TB-High						
GP-14 2'-4'	12/17/2015	Dichlorodifluoromethane	LCS/LCSD	No Bias	Recovery above upper range, analytes not reported in samples	
TB-Low						
TB-High						
GP-14 2'-4'	12/17/2015	Dichlorodifluoromethane	MS/MSD	No Bias	Analytes in site specific matrix spike recovery above upper range. Less than 10% of 8260 compounds outside of acceptance criteria	
TB-Low						
TB-High						

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - SOIL SAMPLES

Southington Mantenance Facility Renovation - Southington CT

Laboratory:	Pheonix Environmental Laboratories
SDG:	GBK41407
Date Samples Collected:	December 18, 2015
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	(see notes at end of DQA)

Sample ID	Date Sampled	Compound(s)	QC OUTLIER	POTENTIAL BIAS	COMMENTS	PRELIMINARY DUE CONSIDERATIONS/NOTES
SVOC Analysis - 8270						
GP-18 2'-4'	12/18/2015	2,4-Dinitrophenol, Benzoic Acid	LCS/LCSD	Low	Analytes below lower range. One or more compound recoveries below 10%. No criteria reported for LCS RPD	No impact to data usability
GP-17 2'-4'						
GP-16 2'-4'						
GP-15 2'-4'						
GP-11 2'-4'						
GP-9 2'-4'						
GP-7 8'-10'						
GP-5 2'-4'						
GP-2 8'-10'						
GP-1 8'-10'						
GP-18 2'-4'	12/18/2015	4,6-Dinitro-2-methylphenol	LCS/LCSD	No Bias	Recovery below method criteria, all other QC criteria acceptable	No impact to data usability
GP-17 2'-4'						
GP-16 2'-4'						
GP-15 2'-4'						
GP-11 2'-4'						
GP-9 2'-4'						
GP-7 8'-10'						
GP-5 2'-4'						
GP-2 8'-10'						
GP-1 8'-10'						
GP-18 2'-4'	12/18/2015	Benzidine, Benzoic Acid, Pyridine	MS/MSD	No Bias	Analytes in site specific matrix spike recovery below lower range, less than 20% of compounds outside of acceptance criteria	No impact to data usability
GP-17 2'-4'						
GP-16 2'-4'						
GP-15 2'-4'						
GP-11 2'-4'						
GP-9 2'-4'						
GP-7 8'-10'						
GP-5 2'-4'						
GP-2 8'-10'						
GP-1 8'-10'						
GP-18 2'-4'	12/18/2015	4,6-Dinitro-2-methylphenol, Benzidine,Pentachlorophenol	LCS/LCSD RPD	No Bias	Exceeds method criteria for one or more analytes, analytes not reported in samples	No impact to data usability
GP-17 2'-4'						
GP-16 2'-4'						
GP-15 2'-4'						
GP-11 2'-4'						
GP-9 2'-4'						
GP-7 8'-10'						
GP-5 2'-4'						
GP-2 8'-10'						
GP-1 8'-10'						

VOC Analysis - 8260						
GP-18 2'-4'	12/18/2015	Acetone	MS/MSD	No Bias	Analytes in site specific matrix spike recovery below lower range.	No impact to data usability
GP-17 2'-4'						
GP-16 2'-4'						
GP-15 2'-4'						
GP-11 2'-4'						
GP-18 2'-4'	12/18/2015	Dichlorodifluoromethane	LCS/LCSD	No Bias	Recovery above upper range, not reported in samples, less than 10% of compounds outside of acceptance criteria	No impact to data usability
GP-17 2'-4'						
GP-16 2'-4'						
GP-15 2'-4'						
GP-11 2'-4'						
GP-18 2'-4'	12/18/2015	Dichlorodifluoromethane	MS/MSD	No Bias	Analytes in site specific matrix spike recovery above upper range.	No impact to data usability
GP-17 2'-4'						
GP-16 2'-4'						
GP-15 2'-4'						
GP-11 2'-4'						
GP-9 2'-4'	12/18/2015	Acetone	MS/MSD	No Bias	Analytes in site specific matrix spike recovery below lower range.	No impact to data usability
GP-7 8'-10'						
GP-5 2'-4'						
GP-2 8'-10'						
GP-1 8'-10'						

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - GROUND WATER SAMPLES

Southington Mantenance Facility Renovation - Southington CT

Laboratory:	Pheonix Environmental Laboratories
SDG:	GBK40702
Date Samples Collected:	December 17, 2015
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	(see notes at end of DQA)

Sample ID	Date Sampled	Compound(s)	QC OUTLIER	POTENTIAL BIAS	COMMENTS	PRELIMINARY DUE CONSIDERATIONS/NOTES
SVOC Analysis - 8270						
FB-1	12/17/2015	Pentachlorophenol, 2,4-dinitrophenol	LCS/LCSD	No Bias	Recovery above upper range, analytes not reported in samples	No impact to data usability
FB-1	12/17/2015	Pyridine, N-Nitrosodimethylamine	LCS/LCSD	No Bias	Recovery below method criteria, all other criteria acceptable	No impact to data usability
FB-1	12/17/2015	% 2-Fluorophenol, % Nitrobenzene-d5, % 2,4,6-Tribromophenol	Surrogate	Variable	Exceeds method criteria for one or more surrogates	No impact to data usability
FB-1	12/17/2015	1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chlorophenol, 2-Nitrophenol, 3,3"-Dichlorobenzidine, Acetophenone, Aniline, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodimethylamine, Pyridine	LCS RPD	No Bias	Exceeds method criteria for one or more surrogates	No impact to data usability
FB-1	12/17/2015	Benzidine	LCS/LCSD	Low	Analytes below lower range. One or more compound recoveries below 10%. No criteria reported for LCS RPD	No impact to data usability

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - SOIL NOTES

Southington Mantenance Facility Renovation - Southington CT

Laboratory:	Phoenix Environmental Laboratories, Inc.
SDG:	GBK40702, GBK41407
Date Samples Collected:	December 17, 2015, December 18, 2015
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	

ETPH Analysis

1) DCS (Discrimination Check Standard) per section 7.2.3 for December 21, 2015. D21A016_1 contained outliers: C36 (49.5%)
2) CC (Continuing Calibration) %D for December 21, 2015. Succeeding CC D21A027: ETPH (C9-C36) (31%H)
3) DCS (Discrimination Check Standard) per section 7.2.3 for December 21, 2015. D21A016_1 contained outliers: C36 (20.6%L)
4) CC (Continuing Calibration) %D for December 21, 2015. Succeeding CC D21A023: DRO (C10-C28) (99.4%L), ETPH (C9-C36) (99.2%L), Pentacosane (100%L)
5) DCS (Discrimination Check Standard) per section 7.2.3 for December 21, 2015. D21A003A_1 contained outliers: C36 (75.7%L)

SVOC Analysis - 8270

1) ICV (Initial Calibration Verification) for December 17, 2015. The following compounds had %RSDs>20%: 1,1-Biphenyl, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Benzidine, Benzoic Acid
2) ICV (Initial Calibration Verification) for December 17, 2015. The following compounds did not meet recommended response factors: 2-Nitrophenol, Hexachlorobenzene
3) CCV (Continuing Calibration Verification) for December 17, 2015. The following compounds did not meet % deviation criteria: 2,4-dinitrophenol, Benzidine
4) CCV (Continuing Calibration Verification) for December 17, 2015. The following compounds did not meet recommended response factors: 2-nitrophenol
5) ICV (Initial Calibration Verification) for December 17, 2015. The following compounds did not meet recommended response factors: Hexachlorobenzene
6) ICV (Initial Calibration Verification) for December 18, 2015. The following compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane
7) ICV (Initial Calibration Verification) for December 18, 2015. The following compounds had %RSDs>20%: 1,1-Biphenyl, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Benzidine, Benzoic Acid
8) ICV (Initial Calibration Verification) for December 18, 2015. The following compounds did not meet recommended response factors: 2-Nitrophenol, Hexachlorobenzene
9) CCV (Continuing Calibration Verification) for December 18, 2015. The following compounds did not meet recommended response factors: Hexachlorobenzene

VOC Analysis Notes - 8260

1) ICV (Initial Calibration Verification) for December 24, 2015. The following compounds had %RSDs>20%: Naphthalene
2) ICV (Initial Calibration Verification) for December 23, 2015. The following compounds had %RSDs>20%: Acetone
3) CCV (Continuing Calibration Verification) for December 23, 2015. The following compounds did not meet % deviation criteria: Dichlorodifluoromethane

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - GROUND WATER NOTES

Southington Mantenance Facility Renovation - Southington CT

Laboratory:	Phoenix Environmental Laboratories, Inc.
SDG:	GBK40702, GBK41407
Date Samples Collected:	December 17, 2015, December 18, 2015
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	

ETPH Analysis

1) DCS (Discrimination Check Standard) per section 7.2.3 for December 18, 2015. D18A017_1 containded outliers: C36 (54.6%L)
2) CC (Continuing Calibration) %D for December 18, 2015. Succeeding CC D18A029: ETPH (C9-C36) (99.5%L), Pentacosane (100%L)

SVOC Analysis - 8270

1) ICV (Initial Calibration Verification) for December 22, 2015. The following compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane
2) ICV (Initial Calibration Verification) for December 22, 2015. The following compounds did not meet recommended response factors: Hexachlorobenzene
3) ICV (Initial Calibration Verification) for December 21, 2015. The following compounds did not meet recommended response factors: 2,4-Dichlorophenol, 2-Chlorophenol
4) CCV (Continuing Calibration Verification) for December 21, 2015. The following compounds did not meet recommended response factors: 2-Chlorophenol, 2-nitrophenol

VOC Analysis Notes - 8260

1) ICV (Initial Calibration Verification) for December 24, 2015. The following compounds had %RSDs>20%: trans-1,4-Dichloro-2-butene
2) ICV (Initial Calibration Verification) for December 24, 2015. The following compounds did not meet recommended response factors: 1,2-Dibromo-3-Chloropropane, 2-Hexanone
3) CCV (Continuing Calibration Verification) for December 24, 2015. The following compounds did not meet recommended response factors: 1,2-dibromo3--chloropropane, Acrolein
4) ICV (Initial Calibration Verification) for December 18, 2015. The following compounds had %RSDs>20%: 1,2-Dibromo-3-Chlopropane, 1,4-Dioxane, Chloroethane
5) ICV (Initial Calibration Verification) for December 18, 2015. The following compounds did not meet recommended response factors: 1,2-Dibromo-3-Chloropropane, 2-Hexanone, 4-Methyl-2-pentanone, Acetone, Acrolein, Bromoform, Methyl Ethyl Ketone
6) CCV (Continuing Calibration Verification) for December 18, 2015. The following compounds did not meet recommended response factors: 1,2-dibromo3--chloropropane, Acrolein, Bromoform
7) CCV (Continuing Calibration Verification) for December 18, 2015. The following compounds had %RSDs>20%: Naphthalene

DATA USABILITY EVALUATION WORKSHEET

Project Name: Task 210 - Southington Maintenance Facility, Southington, CT

Laboratory: Phoenix Laboratories, Inc.

Laboratory Report: GBK40702, GBK41407

Date Samples Collected: December 17 & 18, 2015

Describe the intended use of the data: To verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction

Nonconformance DQA Review Elements	Briefly Summarize DQA Nonconformance
Standard RCP Deliverables	All RCP methods were referenced in report and any criteria falling outside acceptable guidelines were explained for all RCP methods used.
Data Package Inspection	
Reasonable Confidence Evaluation	
Chain of Custody Evaluation	Samples received at appropriate temperature (<6 Degrees C), all reporting limits were specified or referenced on the chain of custudy.
Sample Result Evaluation	
Sample Preservation & Holding Time Evaluation	
Blank Evaluation	Analyte found in blank and high bias is suspected for Lead. Potential bias is outweighed by non-detections or detections less than applicable criteria.
Laboratory Control Samples	LCS/LCSD were detected below lower criteria range and show potential low biases for SVOCs in soil & aqueous samples. Potential bias is outweighed by non-detections or detection limits/detections orders of magnitude less than any applicable RSR criteria.
Surrogates	LCS/LCSD RPD exceeds method criteria for one or more surrogates.
Site-Specific Matrix Spikes and Matrix Spike Duplicates	MS/MSD were detected below and above criteria ranges and show potential low biases for SVOCs and ICP metals in soil samples. Potential bias is outweighed by non-detections or detection limits/detections orders of magnitude less than any applicable RSR criteria.
Tentatively Identified Compounds	
Other QC Data	

DATA USABILITY EVALUATION WORKSHEET

Provide a summary statement describing how the analytical data set relied upon is of adequate quality and of sufficient accuracy, precision, and sensitivity for the intended purpose.

The results will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction activities for the station improvements project.

A data quality assessment and data usability evaluation was performed for the data generated in accordance with the CTDEEP's "Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation Guidance Document".

Non-conformances related to LCS/LCSD RPD, MS/MS, Surrogates, and Method Blanks responses do not have significant bearings on the accuracy and usability of the data for its intended purposes. In all cases the non-conformances have no impact to the data usability and is considered of sufficient quality and precision using multiple lines of evidence.

The data indicates that contaminants are present in the soil and groundwater at low to elevated concentrations that exceed applicable RSR criteria and General Permit Discharge criteria. Task 310 Plans and Specifications will be prepared to address the soil and groundwater contamination during the construction phase.

Based on the above findings from the DQA and DUE, the analytical data is of adequate and of sufficient accuracy, precision and sensitivity to identify areas requiring special treatment and/or handling during the construction phase of the project.