TASK 210:
SUBSURFACE SITE INVESTIGATION REPORT

Replacement of Bridge #01358
Route 139 (North Branford Road)
Over the Branford River
Branford, Connecticut

ConnDOT Assignment No. 204-4842
ConnDOT Project No. 014-0179

Prepared for:

State of Connecticut
Department of Transportation
Newington, Connecticut 06131

Prepared by:

CDR Maguire Inc.
2080 Silas Deane Highway
Rocky Hill, Connecticut 06067

March 21, 2014

TABLE OF CONTENTS

Page Number

1.0 INTRODUCTION……1
2.0 SITE DESCRIPTION…….....3
2.1 Background…….....3
3.0 LOCAL ENVIRONMENT & RECEPTORS…….....4
3.1 Geology……....4
3.2 Groundwater & Topography……..4
4.0 SUBSURFACE INVESTIGATION……5
4.1 Geoprobe® Soil Borings & Soil Sample Analyses……5
4.2 Sediment Sample Collection & Analyses……6
4.3 Project Quality Assurance/Quality Control Practices……6
5.0 DISCUSSION OF SAMPLE RESULTS……8
5.1 Regulatory Criteria……8
5.2 Results Soil Sample Analyses……10
5.3 Results Sediment Sample Analyses……18
5.4 Data Quality Assessment and Data Usability Evaluation (DQA/DUE)……20
6.0 DISCUSSION OF AFFECTED RESOURCES……22
6.1 Soil – Areas of Environmental Concern (AOECs)……22
6.2 Soil – Low Level Area of Environmental Concern (LLAOEC)……23
6.3 Sediment - Area of Environmental Concern (SED-AOEC)……23
6.4 Sediment – Low Level Area of Environmental Concern (SED-LLAOEC)……23
7.0 RECOMMENDATIONS……24
8.0 LIMITATIONS……25

FIGURES

Figure 1 – Site Location Plan ……2
Figure 2 – Task 210: Subsurface Site Investigation Sample Location Plan

TABLES

Tables 1(a) to 1(e) – Results of Geoprobe® Boring Soil Samples Analyses
Table 2 – Results of Sediment Samples Analyses

APPENDIX A – Boring Logs
APPENDIX B – Laboratory Reports (CD)
APPENDIX C – DQA & DUE Worksheets

1.0 INTRODUCTION

On behalf of the Connecticut Department of Transportation (ConnDOT), CDR Maguire Inc. has conducted a Task 210 – Subsurface Site Investigation Report (SSIR) in association with the replacement of Bridge #01358 along Route 139 (North Branford Road) over the Branford River in Branford, Connecticut.

Route 139 (North Branford Road) runs in an east-west direction over the Branford River in Branford. Based upon a review of Design Plans by others, the project will involve the replacement of the bridge over the river including new wing walls, parapets, and full depth pavement reconstruction of North Branford Road. The location of the new bridge shall be shifted approximately ten (10) feet to the southeast to improve the horizontal geometry of the roadway. The project will also include drainage improvements, utility relocations and cut and fill activities.

This Task 210 was conducted in areas of anticipated construction activities for the proposed bridge replacement project. 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 improvements described above. 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

Replacement of Bridge No. 01358

North Branford Road (Route 139) over Branford River

Branford, Connecticut

2.0 SITE DESCRIPTION

2.1 Background

ConnDOT is proposing the replacement of Bridge #01358 on North Branford Road (Route 139) over the Branford River in Branford, Connecticut. The limits of the project area extend from Station 2+50.00 to Station 12+50.00 along North Branford Road. The land use within the project corridor consists of the industrial, commercial, and residential parcels.

This Task 210 - SSIR was conducted in areas of anticipated construction activities for the proposed bridge replacement project. The site area and sample locations are depicted on Figure 2 – Subsurface Site Investigation Report Sample Location Plan included at the end of this Report.

3.0 LOCAL ENVIRONMENT & RECEPTORS

3.1 Geology

According to the Bedrock Geological Map of Connecticut (Rogers 1985), the project corridor is underlain by the Middletown Formation, which is described as a dark to light-gray gneiss and granofels, hornblende gneiss, and amphibolite. The Surficial Materials Map of Connecticut (United States Geological Survey, 2005) indicates that the surficial materials in the central portion of the project corridor are classified as Postglacial Deposits consisting of alluvium overlying sand and gravel. The surficial materials in the eastern and western portions of the project corridor are classified as sand.

3.2 Groundwater & Topography

The project corridor is located within the East Haven River Basin within the South Central Eastern Regional Complex within the South Central Coast Major Basin. The Branford River crosses North Branford Road and is classified as a Class "B/A" surface water body by the CTDEEP. The Class "B/A" designation indicates that these surface waters do not meet their designated Class "A" uses that include existing or proposed drinking water supplies; habitat for fish and other aquatic life and wildlife; recreation; and water supply for industry and agriculture. The State's goal is to restore the surface water quality to Class "A" standards.

The CTDEEP has designated the groundwater beneath the project corridor as "GA". This classification indicates that groundwater is suitable for direct human consumption without treatment. The State's goal is to maintain the groundwater quality. Based on the topography the groundwater is anticipated to flow towards the Branford River which bisects the project corridor. Groundwater was not encountered in any of the borings advanced as part of this Task 210 SSIR and therefore, no groundwater samples were collected and analyzed as part of this investigation.

4.0 SUBSURFACE INVESTIGATION

Based upon the anticipated construction activities proposed for the project corridor and the existing land use, a comprehensive sampling program was conducted. The following subsections detail the investigation.

4.1 Geoprobe® Soil Borings & Soil Sample Analyses

Nineteen (19) borings were advanced to a depth of 8-feet or refusal within the project limits, utilizing a Geoprobe® direct push unit. The Geoprobe® borings were advanced by Logical Environmental Solutions, LLC on January 20, 2014 under the direction of CDR Maguire and laboratory analyses were conducted by Accutest Laboratories. The boring locations GP-1 to GP-19 are depicted on Figure 2 at the end of this Report.

Soil samples were collected continuously to eight (8) feet or refusal utilizing a 4-foot long 2-inch diameter Macro Core Sampler with dedicated acetate liners. 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 utilizing a photoionization detector (PID). The boring logs denote the types of soil encountered, depth to groundwater and/or bedrock, the total depth reached in each boring, and the highest observed PID reading. 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 glassware supplied by Accutest Laboratories and stored in an ice-filled cooler in accordance with chain-of custody procedures. If visual screening did not indicate contamination, the surficial soil sample, 1 to 3-feet below grade, was collected for laboratory analyses. Each soil sample was submitted for laboratory analysis for the following parameters: volatile organic compounds (VOCs) utilizing EPA Method 8260, semi-volatile organic compounds (SVOCs) utilizing EPA Method 8270, extractable total petroleum hydrocarbons (ETPH) utilizing the Connecticut ETPH method, and total and SPLP RCRA 8 metals. In addition, eight (8) selected

soil samples were also analyzed for pesticides and polychlorinated biphenyls (PCBs) utilizing EPA Method 8081 and 8082.

All Geoprobe® soil borings were back-filled 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 Sediment Sample Collection & Analyses

Four (4) sediment grab samples (SED-1 through SED-4) were collected from the banks along the Branford River near the four (4) corners of Bridge No. 01358. The sediment grab sample locations are depicted on Figure 2 at the end of this Report. The sediment samples were analyzed for VOCs (EPA Method 8260), SVOCs (EPA Method 8270), ETPH (CT-ETPH Method), pesticides and PCBs (EPA Method 8081 and 8082), total RCRA 8 metals, and SPLP RCRA 8 metals.

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 is 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.

All samples collected in the field were stored in a manner that preserves the integrity of the sample chemistry. Samples intended for organic analyses were stored in an ice-filled cooler until

delivery to the laboratory. Chain-of-Custody (COC) forms were filled out and accompanied all samples collected as a legal record of possession of the sample. The COC was initiated in the field and accompanied the containers during sample collection, transportation to the lab, analysis, and final disposal of the sample.

All sampling equipment was either dedicated to a specific sample or was decontaminated prior to and between each use. Sampling equipment was not placed near solvents, gasoline, or other materials that may have impacted the sample integrity.

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.

The RSRs criteria applicable to the soil sampled during this investigation are summarized below. The RSR criteria are not applicable to the sediment sampled during this investigation however, this criteria will be used to evaluate the sediment quality. 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.

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 apply for the site.

Groundwater Criteria: Under the CTDEEP RSRs 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 CTDEP 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 are to be 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) for construction dewatering exist within the project limits. Groundwater samples were not collected as part of this Task 210 – SSIR and therefore no analysis of contaminants in groundwater is included in this Report.

5.2 Results Soil Sample Analyses

Soil samples collected during the advancement of Geoprobe® borings, GP-1 through GP-19, were sent to Accutest Laboratories for laboratory analyses. Summaries of the laboratory results from the boring soil samples are presented in Tables 1(a) to 1(e), which are located at the end of this Report, and the complete laboratory data is included on a CD in Appendix B. The following summarizes the results of the analyses conducted on the soil samples collected from the borings.

Extractable Total Petroleum Hydrocarbons

Extractable total petroleum hydrocarbons (ETPH) were detected above analytical detection limits in eighteen (18) of the nineteen (19) soil samples collected as part of this Task 210 – SSIR.

The following table summarizes the ETPH exceedances detected in soil samples collected from borings GP-6, GP-9, GP-10, GP-11, GP-12 and GP-13 and GP-14.

TABLE A – ETPH Exceedances – Soil Samples

Sample ID. (Sample Depth)	Concentration (mg/kg)	Applicable CTDEEP PMC (mg/kg)	CTDEEP RDEC/I&C-DEC (mg/kg)
GP-6 (1'-3')	***799***	**500**	**500**/2,500
GP-9 (1'-3')	***1000***	**500**	**500**/2,500
GP-10 (1'-3')	***821***	**500**	**500**/2,500
GP-11 (1'-3')	***803***	**500**	**500**/2,500
GP-12 (1'-3')	***1340***	**500**	**500**/2,500
GP-13 (1'-3')	***834***	**500**	**500**/2,500
GP-14 (1'-3')	***1280***	**500**	**500**/2,500

ETPH was also detected at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria in soil samples GP-1 (1'-3'), GP-2 (1'-3'), GP-3 (1'-3'), GP-4 (1'-3'), GP-5 (1'-3'), GP-7 (1'-3'), GP-8 (1'-3'), GP-15 (1'-3'), GP-17 (1'-3'), GP-18 (1'-3') and GP-19 (1'-3'). The remaining soil sample collected and analyzed did not contain ETPH at concentrations exceeding analytical detection limits (ND).

Volatile Organic Compounds

Volatile organic compounds (VOCs) were detected above analytical detection limits in thirteen (13) of the nineteen (19) soil samples collected as part of this Task 210 – SSIR.

Acetone was detected at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria in soil samples GP-1 (1'-3'), GP-2 (1'-3'), GP-3 (1'-3'), GP-5 (1'-3'), GP-7 (1'-3'), GP-8 (1'-3'), GP-9 (1'-3'), GP-10 (1'-3'), GP-11 (1'-3'), GP-13 (1'-3'), GP-14 (1'-3'), GP-15 (1'-3') and GP-16 (1'-3').

The remaining soil samples collected and analyzed for the borings did not contain VOCs at concentrations exceeding analytical detection limits (ND).

Semi-Volatile Organic Compounds

Semi-volatile organic compounds (SVOCs) were detected above analytical detection limits in eighteen (18) of the nineteen (19) soil samples collected as part of this Task 210 – SSIR. SVOCs were detected at varying concentrations in the soil samples collected from within the project limits. The following table summarizes the SVOCs that were detected in the soil samples at concentrations exceeding the applicable CTDEEP RSR criteria.

TABLE B – SVOC Exceedances – Soil Samples

Sample ID. (Sample Depth) SVOC Compound	Concentration (mg/kg)	Applicable CTDEEP PMC (mg/kg)	CTDEEP RDEC & I/C-DEC (mg/kg)
GP-2 (1'-3')			
Benzo(a)anthracene	***1.19***	**1**	**1**/7.8
Benzo(a)pyrene	***1.26***	**1**	**1/1**
Benzo(b)fluoranthene	***1.28***	**1**	**1**/7.8
Benzo(k)fluoranthene	***1.07***	**1**	8.4/78
Chrysene	***1.38***	**1**	84/780
GP-5 (1'-3')			
Benzo(a)anthracene	***6.82***	**1**	**1**/7.8
Benzo(a)pyrene	***7.27***	**1**	**1/1**
Benzo(b)fluoranthene	***6.69***	**1**	**1**/7.8
Benao(g,h,i)perylene	***5.47***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***5.98***	**1**	8.4/78
Chrysene	***7.27***	**1**	84/780
Dibenz(a,h)anthracene	***1.59***	**1**	**1/1**
Fluoranthene	***12.1***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***4.82***	**1**	**1**/7.8
Phenanthrene	***4.87***	**4**	1,000/2,500
Pyrene	***10.9***	**4**	1,000/2,500
GP-6 (1'-3')			
Benzo(a)anthracene	***16.2***	**1**	**1/7.8**
Benzo(a)pyrene	***17.7***	**1**	**1/1**
Benzo(b)fluoranthene	***17.1***	**1**	**1/7.8**
Benao(g,h,i)perylene	***13.7***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***13.8***	**1**	**8.4**/78
Chrysene	***17.5***	**1**	84/780
Dibenz(a,h)anthracene	***4.36***	**1**	**1/1**
Fluoranthene	***27.6***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***12.2***	**1**	**1/7.8**
Phenanthrene	***10.7***	**4**	1,000/2,500
Pyrene	***28***	**4**	1,000/2,500

TABLE B – SVOC Exceedances – Soil Samples Continued

Sample ID. (Sample Depth) SVOC Compound	Concentration (mg/kg)	Applicable CTDEEP PMC (mg/kg)	CTDEEP RDEC & I/C-DEC (mg/kg)
GP-7 (1'-3')			
Benzo(a)anthracene	***4.5***	**1**	**1**/7.8
Benzo(a)pyrene	***4.83***	**1**	**1/1**
Benzo(b)fluoranthene	***4.46***	**1**	**1**/7.8
Benzo(k)fluoranthene	***4.05***	**1**	8.4/78
Chrysene	***5.2***	**1**	84/780
Fluoranthene	***9.05***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***3.31***	**1**	**1**/7.8
Pyrene	***8.3***	**4**	1,000/2,500
GP-8 (1'-3')			
Benzo(a)anthracene	***3.65***	**1**	**1**/7.8
Benzo(a)pyrene	***3.83***	**1**	**1/1**
Benzo(b)fluoranthene	***3.78***	**1**	**1**/7.8
Benzo(k)fluoranthene	***2.84***	**1**	8.4/78
Chrysene	***4.13***	**1**	84/780
Fluoranthene	***7.13***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***2.57***	**1**	**1**/7.8
Pyrene	***6.66***	**4**	1,000/2,500
GP-9 (1'-3')			
Benzo(a)anthracene	***9***	**1**	**1/7.8**
Benzo(a)pyrene	***9.76***	**1**	**1/1**
Benzo(b)fluoranthene	***9.7***	**1**	**1/7.8**
Benao(g,h,i)perylene	***7.59***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***6.87***	**1**	8.4/78
Chrysene	***10.4***	**1**	84/780
Dibenz(a,h)anthracene	***2.04***	**1**	**1/1**
Fluoranthene	***17.2***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***6.68***	**1**	**1**/7.8
Phenanthrene	***8.31***	**4**	1,000/2,500
Pyrene	***16.5***	**4**	1,000/2,500
GP-10 (1'-3')			
Benzo(a)anthracene	***11.5***	**1**	**1/7.8**
Benzo(a)pyrene	***10.8***	**1**	**1/1**
Benzo(b)fluoranthene	***9.99***	**1**	**1/7.8**
Benao(g,h,i)perylene	***7.77***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***8.22***	**1**	8.4/78
Chrysene	***12.3***	**1**	84/780
Dibenz(a,h)anthracene	***2.3***	**1**	**1/1**
Fluoranthene	***20***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***7.07***	**1**	**1**/7.8
Phenanthrene	***9.51***	**4**	1,000/2,500
Pyrene	***20.3***	**4**	1,000/2,500

TABLE B – SVOC Exceedances – Soil Samples Continued

Sample ID. (Sample Depth) SVOC Compound	Concentration (mg/kg)	Applicable CTDEEP PMC (mg/kg)	CTDEEP RDEC & I/C-DEC (mg/kg)
GP-11 (1'-3')			
Benzo(a)anthracene	***12.2***	**1**	**1/7.8**
Benzo(a)pyrene	***11.3***	**1**	**1/1**
Benzo(b)fluoranthene	***10.6***	**1**	**1/7.8**
Benao(g,h,i)perylene	***7.85***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***8.44***	**1**	**8.4**/78
Chrysene	***12.8***	**1**	84/780
Dibenz(a,h)anthracene	***2.35***	**1**	**1/1**
Fluoranthene	***21.8***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***7.19***	**1**	**1**/7.8
Phenanthrene	***10.6***	**4**	1,000/2,500
Pyrene	***22.2***	**4**	1,000/2,500
GP-12 (1'-3')			
Benzo(a)anthracene	***20.3***	**1**	**1/7.8**
Benzo(a)pyrene	***21.2***	**1**	**1/1**
Benzo(b)fluoranthene	***18.6***	**1**	**1/7.8**
Benao(g,h,i)perylene	***15.1***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***20.2***	**1**	**8.4**/78
Carbazole	***1.65***	**1**	31/290
Chrysene	***23.6***	**1**	84/780
Dibenz(a,h)anthracene	***5.17***	**1**	**1/1**
Fluoranthene	***36.9***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***14***	**1**	**1/7.8**
Phenanthrene	***17.1***	**4**	1,000/2,500
Pyrene	***33.7***	**4**	1,000/2,500
GP-13 (1'-3')			
Benzo(a)anthracene	***11.3***	**1**	**1/7.8**
Benzo(a)pyrene	***11***	**1**	**1/1**
Benzo(b)fluoranthene	***11.6***	**1**	**1/7.8**
Benao(g,h,i)perylene	***7.43***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***7.89***	**1**	8.4/78
Chrysene	***12.4***	**1**	84/780
Dibenz(a,h)anthracene	***2.64***	**1**	**1/1**
Fluoranthene	***20.4***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***6.77***	**1**	**1**/7.8
Phenanthrene	***6.81***	**4**	1,000/2,500
Pyrene	***18***	**4**	1,000/2,500

TABLE B – SVOC Exceedances – Soil Samples Continued

Sample ID. (Sample Depth) SVOC Compound	Concentration (mg/kg)	Applicable CTDEEP PMC (mg/kg)	CTDEEP RDEC & I/C-DEC (mg/kg)
GP-14 (1'-3')			
Acenaphthylene	***10.6***	**8.4**	1,000/2,500
Benzo(a)anthracene	***29.1***	**1**	**1/7.8**
Benzo(a)pyrene	***25.5***	**1**	**1/1**
Benzo(b)fluoranthene	***26.6***	**1**	**1/7.8**
Benao(g,h,i)perylene	***15.9***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***22.6***	**1**	**8.4**/78
Carbazole	***3.39***	**1**	31/290
Chrysene	***32.9***	**1**	84/780
Dibenz(a,h)anthracene	***6.12***	**1**	**1/1**
Fluoranthene	***73.1***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***15.7***	**1**	**1/7.8**
Phenanthrene	***37.5***	**4**	1,000/2,500
Pyrene	***56.5***	**4**	1,000/2,500
GP-15 (1'-3')			
Benzo(a)anthracene	***11.1***	**1**	**1/7.8**
Benzo(a)pyrene	***11.4***	**1**	**1/1**
Benzo(b)fluoranthene	***12.8***	**1**	**1/7.8**
Benao(g,h,i)perylene	***7.41***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***8.58***	**1**	**8.4**/78
Carbazole	***1.64***	**1**	31/290
Chrysene	***14.2***	**1**	84/780
Dibenz(a,h)anthracene	***2.51***	**1**	**1/1**
Fluoranthene	***26.2***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***7.23***	**1**	**1**/7.8
Phenanthrene	***13.8***	**4**	1,000/2,500
Pyrene	***22***	**4**	1,000/2,500

SVOCs were also detected at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria in soil samples GP-1 (1'-3'), GP-3 (1'-3'), GP-4 (1'-3'), GP-17 (1'-3'), GP-18 (1'-3') and GP-19 (1'-3'). The remaining soil sample collected and analyzed did not contain SVOCs at concentrations exceeding analytical detection limits (ND).

Pesticides

Pesticides were detected above analytical detection limits in six (6) of the eight (8) soil samples collected as part of this Task 210 – SSIR.

The pesticide 4,4'-DDE was detected in soil samples GP-1 (1'-3'), GP-9 (1'-3'), GP-11 (1'-3'), GP-13 (1'-3') and GP-15 (1'-3') at concentrations above analytical detection limits, but below

the applicable CTDEEP RSR criteria. The pesticide 4,4'-DDT was detected in soil samples GP-1 (1'-3'), GP-7 (1'-3), GP-9 (1'-3'), GP-11 (1'-3'), GP-13 (1'-3') and GP-15 (1'-3') at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria.

No other pesticides were detected in the soil samples collected and analyzed at concentrations above analytical detection limits (ND).

Polychlorinated Biphenyls

Polychlorinated biphenyls (PCBs) were detected above analytical detection limits in one (1) of the eight (8) soil samples collected as part of this Task 210 – SSIR.

Aroclor-1260 was detected at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria in soil sample GP-9 (1'-3').

The remaining soil samples collected and analyzed did not contain PCBs at concentrations exceeding analytical detection limits (ND).

RCRA 8 Metals

Total metals, arsenic, barium, cadmium, chromium, lead and mercury were detected at varying concentrations above analytical detection limits in each of the nineteen (19) soil samples collected as part of this Task 210 – SSIR. No detected total metals were present at concentrations exceeding the applicable CTDEEP RSR criteria.

Leachable metals chromium and lead were detected at varying concentrations above analytical detection limits in eleven (11) of the nineteen (19) soil samples collected as part of this Task 210 – SSIR. Table D summarizes the leachable lead that was detected in the soil samples at concentrations exceeding the applicable CTDEEP RSR criteria:

TABLE D – Leachable Lead Exceedances – Soil Samples

Sample ID. (Sample Depth)	Concentration (mg/L)	CTDEEP GA PMC (mg/L)
GP-6 (1'-3')	***0.018***	**0.015**
GP-7 (1'-3')	***0.033***	**0.015**
GP-8 (1'-3')	***0.029***	**0.015**
GP-9 (1'-3')	***0.039***	**0.015**
GP-10 (1'-3')	***0.024***	**0.015**
GP-11 (1'-3')	***0.026***	**0.015**
GP-12 (1'-3')	***0.039***	**0.015**
GP-13 (1'-3')	***0.040***	**0.015**
GP-14 (1'-3')	***0.060***	**0.015**

No other detected leachable metals were present in the soil samples at concentrations exceeding the applicable CTDEEP RSR criteria.

5.3 Results Sediment Sample Analyses

Sediment grab samples SED-1 through SED-4, were sent to Accutest Laboratories for laboratory analyses. Summaries of the laboratory results from the grab samples are presented in Table 2, which is located at the end of this Report, and the complete laboratory data is included on a CD in Appendix B. The following summarizes the results of the analyses conducted on the sediment samples collected.

Extractable Total Petroleum Hydrocarbons

Extractable total petroleum hydrocarbons (ETPH) were detected above analytical detection limits in all four (4) of the sediment samples collected as part of this Task 210 – SSIR.

ETPH was detected in sediment sample SED-3 at a concentration of 1,140 mg/kg, which exceeds RDEC and GA Pollutant Mobility Criteria (PMC) of 500 mg/kg, but is below the Industrial/Commercial Direct Exposure Criteria (I/C-DEC) of 2,500 mg/kg.

ETPH was also detected at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria in sediment samples SED-1, SED-2 and SED-4.

Volatile Organic Compounds

Volatile organic compounds (VOCs) were detected above analytical detection limits in one (1), SED-1, of the four (4) sediment samples collected as part of this Task 210 – SSIR.

Acetone was detected at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria in sediment sample SED-1. The remaining sediment samples collected and analyzed did not contain VOCs at concentrations exceeding analytical detection limits (ND).

Semi-Volatile Organic Compounds

Semi-volatile organic compounds (SVOCs) were detected above analytical detection limits in all of the sediment samples collected as part of this Task 210 – SSIR. SVOCs were detected at varying concentrations in the sediment samples collected from within the project limits. The following table summarizes the SVOCs that were detected in the sediment samples at concentrations exceeding the applicable CTDEEP RSR criteria.

TABLE C – SVOC Exceedances – Sediment Samples

Sample ID. (Sample Depth) SVOC Compound	Concentration (mg/kg)	CTDEEP GA PMC (mg/kg)	CTDEEP RDEC & I/C-DEC (mg/kg)
SED-1			
Benzo(b)fluoranthene	***1.05***	**1**	**1**/7.8
Chrysene	***1.22***	**1**	84/780
SED-3			
Benzo(a)anthracene	***12.5***	**1**	**1/7.8**
Benzo(a)pyrene	***13.8***	**1**	**1/1**
Benzo(b)fluoranthene	***12.6***	**1**	**1/7.8**
Benao(g,h,i)perylene	***10.2***	**4.2**	1,000/2,500
Benzo(k)fluoranthene	***11.2***	**1**	**8.4**/78
Carbazole	***1.34***	**1**	31/290
Chrysene	***14.3***	**1**	84/780
Dibenz(a,h)anthracene	***2.7***	**1**	**1/1**
Fluoranthene	***26.5***	**5.6**	1,000/2,500
Indeno(1,2,3-cd)pyrene	***9.12***	**1**	**1/7.8**
Phenanthrene	***10.9***	**4**	1,000/2,500
Pyrene	***24.9***	**4**	1,000/2,500

SVOCs were also detected at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria in sediment samples SED-2 and SED-4.

Pesticides

Pesticides were detected above analytical detection limits in one (1), SED-3, of the four (4) sediment samples collected as part of this Task 210 – SSIR. The pesticide 4,4'-DDD and 4,4'-DDT were detected in sediment sample SED-3 at concentrations above analytical detection limits, but below the applicable CTDEEP RSR criteria. No other pesticides were detected in the sediment samples collected and analyzed at concentrations above analytical detection limits (ND).

Polychlorinated Biphenyls

Polychlorinated biphenyls (PCBs) were not detected in above analytical detection limits (ND) in sediment samples collected as part of this Task 210 – SSIR.

RCRA 8 Metals

Total metals, arsenic, barium, cadmium, chromium, lead and mercury were detected at varying concentrations above analytical detection limits in each of the four (4) sediment samples collected as part of this Task 210 – SSIR. No detected total metals were present at concentrations exceeding the applicable CTDEEP RSR criteria.

Leachable lead was detected in sediment sample SED-3 at a concentration of 0.028 mg/L which exceeds the GA PMC of 0.015 mg/L. No other detected leachable metals were present in the sediment samples at concentrations exceeding the applicable CTDEEP RSR criteria.

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

Nineteen (19) soil samples and four (4) sediment 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, metals, pesticides, and PCBs. 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 of the new bridge and associated utility and drainage improvements within the project limits.

A data quality assessment and a data usability evaluation were performed for the data generated in accordance with CTDEEP 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 Laboratory Control Sample/Laboratory Control Sample Duplicates (LCS/LCSDs), LCS RPDs, Matrix Spikes/Matrix Spike Duplicate (MS/MSDs), MS/MSDs RPDs, laboratory blanks, and surrogate responses 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 and sediment at concentrations exceeding the CTDEEP 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 the samples for this Task 210 investigation two (2) areas of environmental concern (AOECs) for soil have been identified within the project where ETPH, SVOCs and leachable lead are present at concentrations that exceed the applicable CTDEEP RSR criteria. In addition, one (1) low level area of environmental concern (LLAOEC) for soil has been established where ETPH, VOCs, SVOCs, pesticides and PCBs are present at concentrations above analytical detection limits, but below the CTDEEP RSR standards. Also, one (1) sediment area of environmental concern (SED-AOEC) has been identified where ETPH, SVOCs and leachable lead are present at concentrations exceeding the CTDEEP RSR criteria. One (1) sediment low level area of environmental concern (SED-LLAOEC) has also been identified where ETPH and SVOCs were detected at concentrations above analytical detection limits but below criterion. The locations of the AOECs, LLAOEC, SED-AOEC and SED-LLAOEC within the project limits are discussed in the following sections.

6.1 Soil – Areas of Environmental Concern (AOECs)

AOEC#1: Sample GP-2

Analytical results from the soil sample collected from boring GP-2 indicated the presence of SVOCs at elevated concentrations in soil ranging from 1 to 3 feet below grade. The contamination detected exceeds the applicable CTDEEP RSR criteria.

AOEC #2: Sample GP-5 through GP-15

Analytical results from the soil samples collected from borings GP-5 through GP-15 indicated the presence of ETPH, SVOCs and leachable lead at elevated concentrations in soil ranging from 1 to 3 feet below grade. The contamination detected exceeds the applicable CTDEEP RSR criteria.

6.2 Soil – Low Level Area of Environmental Concern (LLAOEC)

LLAOEC #A: GP-1, GP-3, GP-4, GP-16, GP-17, GP-18 & GP-19

Analytical results from the soil samples collected from borings GP-1, GP-3, GP-4, GP-16, GP-17, GP-18, and GP-19 advanced within the project limits indicated the presence of ETPH, VOCs, SVOCs and pesticides at varying concentrations above analytical detection limits, but below the CTDEEP RSR standards. The contaminants were detected in soil ranging from 1 to 3 feet below grade.

6.3 Sediment – Area of Environmental Concern (SED-AOEC)

SED-AOEC #1: SED-1 & SED-3

Analytical results from sediment samples SED-1 and SED-3 collected within the project limits indicated the presence of ETPH, SVOCs and leachable lead at elevated concentrations in sediment from the riverbanks. The contamination detected exceeds the CTDEEP RSR criteria.

6.4 Sediment - Low Level Area of Environmental Concern (SED-LLAOEC)

SED-LLAOEC #1: SED-2 & SED-4

Analytical results from sediment samples SED-2 and SED-4 within the project limits indicated the presence of ETPH and SVOCs at concentrations above analytical detection limits, but below standards. The contaminants were detected in sediment from the riverbanks.

7.0 RECOMMENDATIONS

The results of the Task 210 – Subsurface Site Investigation Report for the replacement of Bridge #01358 along route 139 in Branford, Connecticut indicate the presence of ETPH, SVOCs, and leachable lead at concentrations exceeding the applicable CTDEEP RSR in soil and sediment within the project limits. The contamination was detected in soils ranging from 1 to 3 feet below grade and in sediment from the riverbanks. In addition, low concentrations of ETPH, VOCs, SVOCs, pesticides and PCBs were detected in the soils and sediment at concentrations below the applicable CTDEEP RSR criteria.

Two (2) areas of environmental concern (AOECs) and one (1) sediment area of environmental concern (SED-AOEC) have been identified within the project limits. In addition, one (1) low level area of environmental concern (LLAOEC) for soil and one (1) sediment low level area of environmental concern (SED-LLAOEC) have been identified within the project limits. Special considerations for treatment/disposal and worker health & safety must be given to these areas in order to ensure compliance with all local, State and Federal laws. Task 310 Plans, Specifications, and Estimate are therefore recommended for construction within the AOECs, LLAOEC, SED-AOEC and SED-LLAOEC described in Section 6.0 above.

8.0 LIMITATIONS

All work product and reports provided by CDR Maguire Inc. (CDRM) 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, CDRM 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 CDRM at the time of this investigation. To the extent that such files are missing, incomplete or not provided to CDRM, CDRM is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, CDRM 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 CDRM, and the conclusions and recommendations presented herein modified accordingly.

5. Where quantitative laboratory analyses have been conducted by an outside certified laboratory, CDRM 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 CDRM 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.

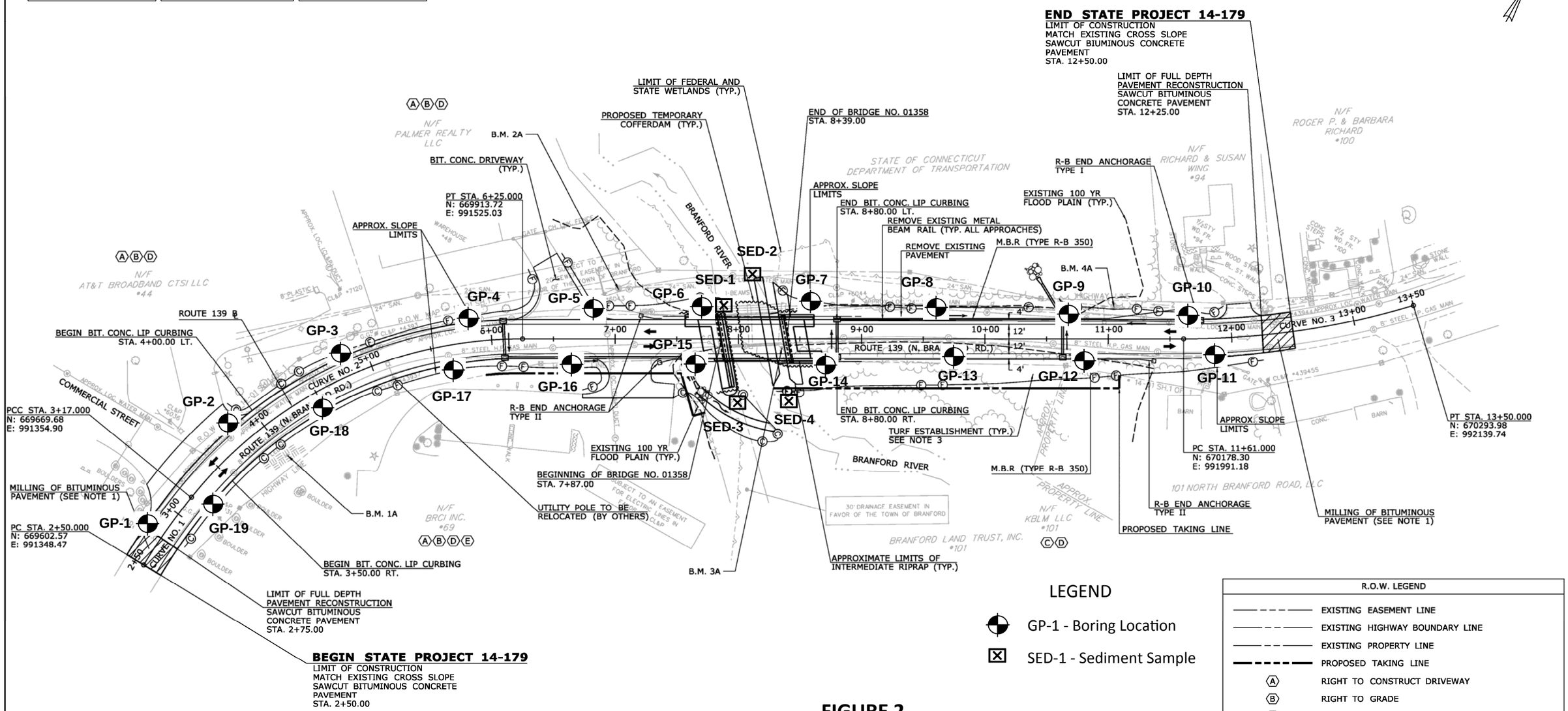
Prepared by:	Approved by:	Reviewed by:
Joseph H. Buehler Construction Technician II	David R. Stock, P.E. Program Manager	Jane Witherell, PE, LEP, CHMM Principal Engineer

FIGURES

CURVE NO. 1
RADIUS: 500.000'
DELTA: 7° 43'50.0" RIGHT
LENGTH: 67.462'
TANGENT: 33.782'
PI N: 669636.34
E: 991349.42

CURVE NO. 2
RADIUS: 345.000'
DELTA: 51° 04'53.2" RIGHT
LENGTH: 307.581'
TANGENT: 164.858'
PI N: 669832.35
E: 991381.66

CURVE NO. 3
RADIUS: 650.000'
DELTA: 16° 39'21.5" LEFT
LENGTH: 188.956'
TANGENT: 95.149'
PI N: 670225.27
E: 992073.93



LEGEND

GP-1 - Boring Location

SED-1 - Sediment Sample

R.O.W. LEGEND	
	EXISTING EASEMENT LINE
	EXISTING HIGHWAY BOUNDARY LINE
	EXISTING PROPERTY LINE
	PROPOSED TAKING LINE
A	RIGHT TO CONSTRUCT DRIVEWAY
B	RIGHT TO GRADE
C	EASEMENT TO SLOPE
D	RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM
E	DRAINAGE RIGHT OF WAY (D.R.O.W.)

NOTES:
1. SEE PAVEMENT TRANSITION DETAIL ON DWG. NO. TYP-1.
2. SEE DWG. NO. DRG-1 FOR PROPOSED CONTOURS.
3. ALL AREAS OF DISTURBED EARTH REQUIRE "FURNISHING AND PLACING TOPSOIL 4" THICK" AND "TURF ESTABLISHMENT", OR "INTERMEDIATE RIPRAP" AS SHOWN ON PLANS.

SCALE IN FEET
0 40 80
SCALE 1"=40'

FIGURE 2

TASK 210 - SUBSURFACE SITE INVESTIGATION REPORT

BORING LOCATION PLAN

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/11/2013

DESIGNER/DRAFTER: DJA / MTF
CHECKED BY: EWM
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_014_179_PLN_01.dgn

SIGNATURE/ BLOCK:
APPROVED BY: DATE:
McFarland Johnson

PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 01358 - ROUTE 139 OVER BRANFORD RIVER

TOWN: BRANFORD

DRAWING TITLE: HIGHWAY PLAN

PROJECT NO. 014-179
DRAWING NO. 2
SHEET NO. Fig. 2

TABLES

TABLE 1(a) - Results of Geoprobe® Boring Soil Sample Analyses
Replacement of bridge #01358, Route 139
Branford, Connecticut

Boring I.D.:	GP-1	GP-2	GP-3	GP-4	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Depth:	1'-3'	1'-3'	1'-3'	1'-3'		
Sample Date:	1/20/2014	1/20/2014	1/20/2014	1/20/2014		
CT ETPH - (mg/kg)	91.3	102	53.4	28.6	500 mg/kg	500/2,500 mg/kg
VOCs - Method 8260 (mg/kg)						
Acetone	0.0499	0.0386	0.0981	ND	140 mg/kg	500/1,000 mg/kg
SVOCs - Method 8270 (mg/kg)						
Acenaphthylene	ND	ND	0.192	ND	8.4 mg/kg	1,000/2,500 mg/kg
Benz(a)anthracene	0.722	**1.19**	0.501	0.163	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(a)pyrene	0.831	**1.26**	0.576	0.157	**1 mg/kg**	**1/1 mg/kg**
Benzo(b)fluoranthene	0.822	**1.28**	0.531	0.157	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(g,h,i)perylene	0.724	0.961	0.432	0.114	4.2 mg/kg	1,000/2,500 mg/kg
Benzo(k)fluoranthene	0.802	**1.07**	0.56	0.143	**1 mg/kg**	8.4/78 mg/kg
Chrysene	0.82	**1.38**	0.636	0.18	**1 mg/kg**	84/780 mg/kg
Dibenz(a,h)anthracene	ND	ND	0.115	ND	1 mg/kg	1/1 mg/kg
Fluoranthene	1.22	2.2	1.06	0.34	5.6 mg/kg	1,000/2,500 mg/kg
Indeno(1,2,3-cd)pyrene	0.644	0.811	0.366	ND	1 mg/kg	1/7.8 mg/kg
Phenanthrene	ND	0.941	0.556	0.203	4 mg/kg	1,000/2,500 mg/kg
Pyrene	1.13	2.2	1.05	0.328	4 mg/kg	1,000/2,500 mg/kg
Total SVOCs	7.715	13.293	6.575	1.785		
Pesticides - Method 8081 (mg/kg)						
4,4'-DDE	0.024	NA	NA	ND	Varies	Varies
4,4'-DDT	0.0222	NA	NA	ND	Varies	Varies
PCBs - Method 8082 (mg/kg)	ND	NA	NA	ND	Not Applicable	1/10 mg/kg
Total RCRA 8 Metals - (mg/kg)					Not Applicable	
Arsenic	2.7	2.5	2.3	2.2		10/10 mg/kg
Barium	45.3	42.2	60.3	42.5		4,700/140,000 mg/kg
Cadmium	<0.36	<0.36	<0.38	<0.37		34/1,000 mg/kg
Chromium	16.7	12.8	18.7	18.8		3,900/51,000 mg/kg
Lead	32.4	11.4	11.2	9		400/1,000 mg/kg
Mercury	<0.036	0.16	<0.036	<0.037		20/610 mg/kg
Selenium	<0.91	<0.91	<0.95	<0.93		340/10,000 mg/kg
Silver	<0.46	<0.46	<0.48	<0.46		340/10,000 mg/kg
SPLP RCRA 8 Metals - (mg/L)						Not Applicable
Arsenic	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Barium	<0.50	<0.50	<0.50	<0.50	1.0 mg/L	
Cadmium	<0.004	<0.004	<0.004	<0.004	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	<0.010	<0.010	<0.010	<0.010	0.015 mg/L	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.025	<0.025	<0.025	<0.025	0.05 mg/L	
Silver	<0.005	<0.005	<0.005	<0.005	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)
NA – Not Analyzed
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
Replacement of bridge #01358, Route 139
Branford, Connecticut

Boring I.D.:	GP-5	GP-6	GP-7	GP-8	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Depth:	1'-3'	1'-3'	1'-3'	1'-3'		
Sample Date:	1/20/2014	1/20/2014	1/20/2013	1/20/2014		
CT ETPH - (mg/kg)	280	**799**	474	450	**500 mg/kg**	**500/2,500 mg/kg**
VOCs - Method 8260 (mg/kg)						
Acetone	0.131	ND	0.0836	0.0448	140 mg/kg	500/1,000 mg/kg
SVOCs - Method 8270 (mg/kg)						
Acenaphthylene	1.65	3.52	1.9	1.57	8.4 mg/kg	1,000/2,500 mg/kg
Anthracene	1.23	2.82	1.07	0.883	40 mg/kg	1,000/2,500 mg/kg
Benz(a)anthracene	**6.82**	**16.2**	**4.5**	**3.65**	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(a)pyrene	**7.27**	**17.7**	**4.83**	**3.83**	**1 mg/kg**	**1/1 mg/kg**
Benzo(b)fluoranthene	**6.69**	**17.1**	**4.46**	**3.78**	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(g,h,i)perylene	**5.47**	**13.7**	3.81	2.94	**4.2 mg/kg**	1,000/2,500 mg/kg
Benzo(k)fluoranthene	**5.98**	**13.8**	**4.05**	**2.84**	**1 mg/kg**	**8.4/78 mg/kg**
Carbazole	ND	0.688	ND	ND	1 mg/kg	31/290 mg/kg
Chrysene	**7.27**	**17.5**	**5.2**	**4.13**	**1 mg/kg**	84/780 mg/kg
Dibenz(a,h)anthracene	**1.59**	**4.36**	1	0.794	**1 mg/kg**	**1/1 mg/kg**
Fluoranthene	**12.1**	**27.6**	**9.05**	**7.13**	**5.6 mg/kg**	1,000/2,500 mg/kg
Indeno(1,2,3-cd)pyrene	**4.82**	**12.2**	**3.31**	**2.57**	**1 mg/kg**	**1/7.8 mg/kg**
Phenanthrene	**4.87**	**10.7**	3.83	3.15	**4 mg/kg**	1,000/2,500 mg/kg
Pyrene	**10.9**	**28**	**8.3**	**6.66**	**4 mg/kg**	1,000/2,500 mg/kg
Total SVOCs	76.66	185.888	55.31	43.927		
Pesticides - Method 8081 (mg/kg)						
4,4'-DDE	NA	NA	ND	NA	Varies	Varies
4,4'-DDT	NA	NA	0.034	NA	Varies	Varies
PCBs - Method 8082 (mg/kg)	NA	NA	ND	NA	Not Applicable	1/10 mg/kg
Total RCRA 8 Metals - (mg/kg)					Not Applicable	
Arsenic	2.9	3	2.4	2.6		10/10 mg/kg
Barium	48.7	46.9	43.1	48.5		4,700/140,000 mg/kg
Cadmium	<0.37	<0.38	<0.37	<0.37		34/1,000 mg/kg
Chromium	13.7	13.8	16.6	16.7		3,900/51,000 mg/kg
Lead	18.8	40	81.3	54.9		400/1,000 mg/kg
Mercury	0.04	<0.035	<0.038	<0.033		20/610 mg/kg
Selenium	<0.93	<0.94	<0.93	<0.92		340/10,000 mg/kg
Silver	<0.46	<0.47	<0.47	<0.46		340/10,000 mg/kg
SPLP RCRA 8 Metals - (mg/L)						Not Applicable
Arsenic	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Barium	<0.50	<0.50	<0.50	<0.50	1.0 mg/L	
Cadmium	<0.004	<0.004	<0.004	<0.004	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	0.012	**0.018**	**0.033**	**0.029**	**0.015 mg/L**	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.025	<0.025	<0.025	<0.025	0.05 mg/L	
Silver	<0.005	<0.005	<0.005	<0.005	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)
NA – Not Analyzed
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
Replacement of bridge #01358, Route 139
Branford, Connecticut

Boring I.D.:	GP-9	GP-10	GP-11	GP-12	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Depth:	1'-3'	1'-3'	1'-3'	1'-3'		
Sample Date	1/20/2014	1/20/2014	1/20/2014	1/20/2014		
CT ETPH - (mg/kg)	**1000**	**821**	**803**	**1340**	**500 mg/kg**	**500/2,500 mg/kg**
VOCs - Method 8260 (mg/kg)						
Acetone	0.0857	0.0943	0.0608	ND	140 mg/kg	500/1,000 mg/kg
SVOCs - Method 8270 (mg/kg)						
Acenaphthylene	3.69	4.89	5.14	8.38	8.4 mg/kg	1,000/2,500 mg/kg
Anthracene	2.23	3.12	3.49	4.85	40 mg/kg	1,000/2,500 mg/kg
Benz(a)anthracene	**9**	**11.5**	**12.2**	**20.3**	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(a)pyrene	**9.76**	**10.8**	**11.3**	**21.2**	**1 mg/kg**	**1/1 mg/kg**
Benzo(b)fluoranthene	**9.7**	**9.99**	**10.6**	**18.6**	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(g,h,i)perylene	**7.59**	**7.77**	**7.85**	**15.1**	**4.2 mg/kg**	1,000/2,500 mg/kg
Benzo(k)fluoranthene	**6.87**	**8.22**	**8.44**	**20.2**	**1 mg/kg**	**8.4**/78 **mg/kg**
Carbazole	0.706	0.685	0.727	**1.65**	**1 mg/kg**	31/290 mg/kg
Chrysene	**10.4**	**12.3**	**12.8**	**23.6**	**1 mg/kg**	84/780 mg/kg
Dibenz(a,h)anthracene	**2.04**	**2.3**	**2.35**	**5.17**	**1 mg/kg**	**1/1 mg/kg**
Fluoranthene	**17.2**	**20**	**21.8**	**36.9**	**5.6 mg/kg**	1,000/2,500 mg/kg
Fluorene	ND	ND	ND	0.824	5.6 mg/kg	1,000/2,500 mg/kg
Indeno(1,2,3-cd)pyrene	**6.68**	**7.07**	**7.19**	**14**	**1 mg/kg**	**1/7.8 mg/kg**
Phenanthrene	**8.31**	**9.51**	**10.6**	**17.1**	**4 mg/kg**	1,000/2,500 mg/kg
Pyrene	**16.5**	**20.3**	**22.2**	**33.7**	**4 mg/kg**	1,000/2,500 mg/kg
Total SVOCs	110.676	128.455	136.687	241.574		
Pesticides - Method 8081 (mg/kg)						
4,4'-DDE	0.0104	NA	0.0077	NA	Varies	Varies
4,4'-DDT	0.0743	NA	0.0294	NA	Varies	Varies
PCBs - Method 8082 (mg/kg)						
Aroclor 1260	0.0424	NA	ND	NA	Not Applicable	1/10 mg/kg
Total RCRA 8 Metals - (mg/kg)					Not Applicable	
Arsenic	3	3.9	3.3	2.1		10/10 mg/kg
Barium	41.7	43.1	40.2	33.4		4,700/140,000 mg/kg
Cadmium	0.46	<0.36	<0.36	<0.36		34/1,000 mg/kg
Chromium	20.6	14.1	12.6	16.8		3,900/51,000 mg/kg
Lead	125	71.5	62.2	107		400/1,000 mg/kg
Mercury	0.039	0.04	<0.037	<0.034		20/610 mg/kg
Selenium	<0.93	<0.91	<0.90	<0.90		340/10,000 mg/kg
Silver	<0.47	<0.46	<0.45	<0.45		340/10,000 mg/kg
SPLP RCRA 8 Metals - (mg/L)						Not Applicable
Arsenic	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Barium	<0.50	<0.50	<0.50	<0.50	1.0 mg/L	
Cadmium	<0.004	<0.004	<0.004	<0.004	0.005 mg/L	
Chromium	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Lead	**0.039**	**0.024**	**0.026**	**0.039**	**0.015 mg/L**	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.025	<0.025	<0.025	<0.025	0.05 mg/L	
Silver	<0.005	<0.005	<0.005	<0.005	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)
NA – Not Analyzed
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
Replacement of bridge #01358, Route 139
Branford, Connecticut

Boring I.D.:	GP-13	GP-14	GP-15	GP-16	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Depth:	1'-3'	1'-3'	1'-3'	1'-3'		
Sample Date:	1/20/2014	1/20/2014	1/20/2014	1/20/2014		
CT ETPH - (mg/kg)	**834**	**1280**	189	ND	**500 mg/kg**	**500/2,500 mg/kg**
VOCs - Method 8260 (mg/kg)						
Acetone	0.0998	0.172	0.111	0.0311	14 mg/kg	500/1,000 mg/kg
SVOCs - Method 8270 (mg/kg)						
Acenaphthylene	3.85	**10.6**	6.18	ND	**8.4 mg/kg**	1,000/2,500 mg/kg
Anthracene	2.39	7.29	3.38	ND	40 mg/kg	1,000/2,500 mg/kg
Benz(a)anthracene	**11.3**	**29.1**	**11.1**	ND	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(a)pyrene	**11**	**25.5**	**11.4**	ND	**1 mg/kg**	**1/1 mg/kg**
Benzo(b)fluoranthene	**11.6**	**26.6**	**12.8**	ND	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(g,h,i)perylene	**7.43**	**15.9**	**7.41**	ND	**4.2 mg/kg**	1,000/2,500 mg/kg
Benzo(k)fluoranthene	**7.89**	**22.6**	**8.58**	ND	**1 mg/kg**	**8.4/78 mg/kg**
Carbazole	0.632	**3.39**	**1.64**	ND	**1 mg/kg**	31/290 mg/kg
Chrysene	**12.4**	**32.9**	**14.2**	ND	**1 mg/kg**	84/780 mg/kg
Dibenz(a,h)anthracene	**2.64**	**6.12**	**2.51**	ND	**1 mg/kg**	**1/1 mg/kg**
Dibenzofuran	ND	0.781	ND	ND	5.6 mg/kg	270/2,500 mg/kg
Fluoranthene	**20.4**	**73.1**	**26.2**	ND	**5.6 mg/kg**	1,000/2,500 mg/kg
Fluorene	ND	1.7	0.742	ND	5.6 mg/kg	1,000/2,500 mg/kg
Indeno(1,2,3-cd)pyrene	**6.77**	**15.7**	**7.23**	ND	**1 mg/kg**	**1/7.8 mg/kg**
Phenanthrene	**6.81**	**37.5**	**13.8**	ND	**4 mg/kg**	1,000/2,500 mg/kg
Pyrene	**18**	**56.5**	**22**	ND	**4 mg/kg**	1,000/2,500 mg/kg
Total SVOCs	123.112	365.281	149.172	ND		
Pesticides - Method 8081 (mg/kg)						
4,4'-DDE	0.0095	NA	0.01	NA	Varies	Varies
4,4'-DDT	0.0631	NA	0.0598	NA	Varies	Varies
PCBs - Method 8082 (mg/kg)	ND	NA	ND	NA	Not Applicable	1/10 mg/kg
Total RCRA 8 Metals - (mg/kg)					Not Applicable	
Arsenic	2.6	1.7	2.5	1.8		10/10 mg/kg
Barium	38.7	26.1	35	55.9		4,700/140,000 mg/kg
Cadmium	0.37	<0.37	<0.39	<0.36		34/1,000 mg/kg
Chromium	22.1	19	15	13.3		3,900/51,000 mg/kg
Lead	87.6	133	49.4	6.1		400/1,000 mg/kg
Mercury	<0.033	<0.035	0.041	<0.035		20/610 mg/kg
Selenium	<0.91	<0.91	<0.97	<0.91		340/10,000 mg/kg
Silver	<0.45	<0.46	<0.48	<0.46		340/10,000 mg/kg
SPLP RCRA 8 Metals - (mg/L)						Not Applicable
Arsenic	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Barium	<0.50	<0.50	<0.50	<0.50	1.0 mg/L	
Cadmium	<0.004	<0.004	<0.004	<0.004	0.005 mg/L	
Chromium	<0.01	<0.01	<0.01	<0.01	0.05 mg/L	
Lead	**0.04**	**0.06**	<0.01	<0.01	**0.015 mg/L**	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.025	<0.025	<0.025	<0.025	0.05 mg/L	
Silver	<0.005	<0.005	<0.005	<0.005	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)
NA – Not Analyzed
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
Replacement of bridge #01358, Route 139
Branford, Connecticut

Boring I.D.:	GP-17	GP-18	GP-19	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Depth:	1'-3'	1'-3'	1'-3'		
Sample Date:	1/20/2014	1/20/2014	1/20/2014		
CT ETPH - (mg/kg)	127	27.7	30.8	500 mg/kg	500/2,500 mg/kg
VOCs - Method 8260 (mg/kg)					
Acetone	ND	ND	ND	140 mg/kg	500/1,000 mg/kg
SVOCs - Method 8270 (mg/kg)					
Acenaphthylene	ND	0.147	0.137	8.4 mg/kg	1,000/2,500 mg/kg
Benz(a)anthracene	ND	0.211	0.197	1 mg/kg	1/7.8 mg/kg
Benzo(a)pyrene	0.114	0.237	0.235	1 mg/kg	1/1 mg/kg (30 mg/kg[2])
Benzo(b)fluoranthene	0.129	0.254	0.232	1 mg/kg	1/7.8 mg/kg
Benzo(g,h,i)perylene	ND	0.154	0.163	4.2 mg/kg	1,000/2,500 mg/kg
Benzo(k)fluoranthene	0.112	0.233	0.216	1 mg/kg	8.4/78 mg/kg
Chrysene	0.126	0.279	0.218	1 mg/kg	84/780 mg/kg
Fluoranthene	0.216	0.528	0.374	5.6 mg/kg	1,000/2,500 mg/kg
Indeno(1,2,3-cd)pyrene	ND	0.145	0.152	1 mg/kg	1/7.8 mg/kg
Phenanthrene	ND	0.272	0.11	4 mg/kg	1,000/2,500 mg/kg
Pyrene	0.199	0.493	0.349	4 mg/kg	1,000/2,500 mg/kg
Total SVOCs	0.896	2.953	2.383		
Pesticides - Method 8081 (mg/kg)	NA	ND	NA	Varies	Varies
PCBs - Method 8082 (mg/kg)	NA	ND	NA	Not Applicable	1/10 mg/kg
Total RCRA 8 Metals - (mg/kg)				Not Applicable	
Arsenic	0.93	<0.94	1.5		10/10 mg/kg
Barium	36.3	17.3	52.6		4,700/140,000 mg/kg
Cadmium	<0.36	<0.38	<0.38		34/1,000 mg/kg
Chromium	10.7	4.8	113		3,900/51,000 mg/kg
Lead	21.6	24.7	12.5		400/1,000 mg/kg
Mercury	<0.034	<0.034	<0.034		20/610 mg/kg
Selenium	<0.91	<0.94	<0.96		340/10,000 mg/kg
Silver	<0.45	<0.47	<0.48		340/10,000 mg/kg
SPLP RCRA 8 Metals - (mg/L)					Not Applicable
Arsenic	<0.010	<0.010	<0.010	0.05 mg/L	
Barium	<0.50	<0.50	<0.50	1.0 mg/L	
Cadmium	<0.004	<0.004	<0.004	0.005 mg/L	
Chromium	<0.01	<0.01	0.012	0.05 mg/L	
Lead	<0.01	<0.01	<0.010	0.015 mg/L	
Mercury	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.025	<0.025	<0.025	0.05 mg/L	
Silver	<0.005	<0.005	<0.005	0.036 mg/L	

ND – Not Detected (see laboratory reports for compound specific detection limits)
NA – Not Analyzed
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 Sediment Sample Analyses
Replacement of bridge #01358, Route 139
Branford, Connecticut

Boring I.D.:	SED-1	SED-2	SED-3	SED-4	CTDEEP PMC GA Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Date:	1/20/2014	1/20/2014	1/20/2014	1/20/2014		
CT ETPH - (mg/kg)	122	81	**1140**	163	**500 mg/kg**	**500/2,500 mg/kg**
VOCs - Method 8260 (mg/kg)						
Acetone	0.109	ND	ND	ND	140 mg/kg	500/1,000 mg/kg
SVOCs - Method 8270 (mg/kg)						
Acenaphthylene	ND	ND	3.94	0.21	8.4 mg/kg	1,000/2,500 mg/kg
Anthracene	ND	ND	3.38	ND	40 mg/kg	1,000/2,500 mg/kg
Benz(a)anthracene	0.952	0.755	**12.5**	0.575	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(a)pyrene	0.997	0.799	**13.8**	0.756	**1 mg/kg**	**1/1 mg/kg**
Benzo(b)fluoranthene	**1.05**	0.972	**12.6**	0.774	**1 mg/kg**	**1/7.8 mg/kg**
Benzo(g,h,i)perylene	0.721	ND	**10.2**	0.582	**4.2 mg/kg**	1,000/2,500 mg/kg
Benzo(k)fluoranthene	0.987	ND	**11.2**	0.704	**1 mg/kg**	**8.4**/78 **mg/kg**
Carbazole	ND	ND	**1.34**	ND	**1 mg/kg**	31/290 mg/kg
Chrysene	**1.22**	0.956	**14.3**	0.912	**1 mg/kg**	84/780 mg/kg
Dibenz(a,h)anthracene	ND	ND	**2.7**	0.179	**1 mg/kg**	**1/1 mg/kg**
Fluoranthene	2.06	1.6	**26.5**	1.35	**5.6 mg/kg**	1,000/2,500 mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	**9.12**	0.516	**1 mg/kg**	**1/7.8 mg/kg**
Phenanthrene	0.76	ND	**10.9**	0.63	**4 mg/kg**	1,000/2,500 mg/kg
Pyrene	1.95	1.47	**24.9**	1.4	**4 mg/kg**	1,000/2,500 mg/kg
Total SVOCs	10.697	6.552	157.38	8.588		
Pesticides - Method 8081 (mg/kg)						
4,4'-DDD	ND	ND	0.0496	ND	Varies	Varies
4,4'-DDT	ND	ND	0.0137	ND	Varies	Varies
PCBs - Method 8082 (mg/kg)	ND	ND	ND	ND	Not Applicable	1/10 mg/kg
Total RCRA 8 Metals - (mg/kg)					Not Applicable	
Arsenic	2.5	2.1	4.3	3.2		10/10 mg/kg
Barium	79.2	62.6	73.4	110		4,700/140,000 mg/kg
Cadmium	0.41	<0.42	0.6	0.44		34/1,000 mg/kg
Chromium	13.4	11.3	29.3	18.8		3,900/51,000 mg/kg
Lead	28.7	19.3	189	38.6		400/1,000 mg/kg
Mercury	<0.040	<0.042	0.062	0.083		20/610 mg/kg
Selenium	<1.0	<1.1	<1.1	<1.0		340/10,000 mg/kg
Silver	<0.50	<0.53	<0.53	<0.51		340/10,000 mg/kg
SPLP RCRA 8 Metals - (mg/L)						Not Applicable
Arsenic	<0.010	<0.010	<0.010	<0.010	0.05 mg/L	
Barium	<0.50	<0.50	<0.50	<0.50	1.0 mg/L	
Cadmium	<0.004	<0.004	<0.004	<0.004	0.005 mg/L	
Chromium	<0.01	<0.01	<0.01	<0.01	0.05 mg/L	
Lead	<0.01	<0.01	**0.028**	<0.01	**0.015 mg/L**	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.002 mg/L	
Selenium	<0.025	<0.025	<0.025	<0.025	0.05 mg/L	
Silver	<0.005	<0.005	<0.005	<0.005	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.

APPENDIX A
Boring Logs

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-19
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 SAND, little Silt, trace Organics	0.5		
1.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble			
2.0			2.5	0	Macro Core 0'-4'
3.0		Weathered SCHIST			
4.0			4.0		
5.0					
6.0		Refusal at 4'			
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 4'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-18
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 SAND, little Silt, trace Organics	0.5		
1.0 2.0 3.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble with seams of weathered Schist	4.0	0	Macro Core 0'-4'
4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0		Refusal at 4'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 4'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-17
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 to Black fine to medium SAND, little Silt, trace Asphalt	0.8		
1.0					
2.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble		0	Macro Core 0'-4'
3.0					
4.0			4.0		
5.0		Refusal at 4'			
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 4'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-16
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 to Black fine SAND, trace Silt, Organics & fine Gravel	0.8		
1.0, 2.0, 3.0, 4.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble	4.0	0	Macro Core 0'-4'
4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0		Refusal at 4'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 4'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-15
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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		Brown fine SAND, trace Silt, Organics & fine Gravel (very loose)	0.5		
1.0		Dark-Brown fine to medium SAND, little Silt, trace fine Gravel			
2.0			2.5	0	Macro Core 0'-4'
3.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble			
4.0					
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		Refusal at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-14
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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		Gray-Brown fine SAND, little Silt, trace Organics, Glass & Asphalt	0.5		
1.0 2.0 3.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble	3.0	0	Hand Auger 0'-3'
4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0		End of Boring at 3'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 4"
Rig: Hand Auger
Boring Depth: 3'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-13
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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		Gray-Brown fine SAND, little Silt, trace Organics, Glass & Asphalt	1.0	0	Hand Auger 0'-3'
1.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble	3.0		
2.0					
3.0		End of Boring at 3'			
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 4"
Rig: Hand Auger
Boring Depth: 3'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-12
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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		Gray-Brown fine SAND, little Silt, trace Organics, Glass & Asphalt	1.0	0	Hand Auger 0'-3'
1.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble	3.0		
2.0					
3.0		End of Boring at 3'			
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 4"
Rig: Hand Auger
Boring Depth: 3'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-11
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.3		
		Brown fine to medium SAND, little fine to coarse Gravel, trace Asphalt	1.0		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-10
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.5		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-9
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.5		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-8
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 SAND, little Silt, trace Organics, Glass & Asphalt	0.5		
1.0 2.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble	3.0	0	Hand Auger 0'-3'
3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0		End of Boring at 3'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 4"
Rig: Hand Auger
Boring Depth: 3'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-7
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 SAND, little Silt, trace Organics, Glass & Asphalt	0.5		
1.0 2.0		Orange-Brown fine to medium SAND, little Silt & fine Gravel, trace Cobble	3.0	0	Hand Auger 0'-3'
3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0		End of Boring at 3'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 4"
Rig: Hand Auger
Boring Depth: 3'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-6
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.4		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-5
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.4		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-4
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.7		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-3
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.7		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-2
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.7		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

SOIL BORING LOG

Project: Bridge 1358 Over Branford River
Boring: GP-1
Location: Rte .139 - Branford, CT
Inspector: J. Caruso
Client: CDR Maguire
Date: 1-20-14

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 & SILT, little Organics	0.7		
1.0					
2.0				0	Macro Core 0'-4'
3.0					
4.0		Orange-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0				0	Macro Core 4'-8'
7.0					
8.0			8.0		
9.0		End of Boring at 8'			
10.0					
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 8'
Page: 1 of 1

APPENDIX B
Laboratory Reports
On CD

New England ACCUTEST LABORATORIES

01/29/14

Technical Report for

CDR Maguire

Bridge 1358-Rte 139 Over Branford River, Branford, CT

14-179

Accutest Job Number: MC27780

Sampling Date: 01/20/14

Report to:

CDR Maguire
2080 Silas Deane Highway
Rocky Hill, CT 06067
jane.witherell@cdrmaguire.com

ATTN: Jane Witherell

Total number of pages in report: **391**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Table of Contents

-1-

Section 1: Sample Summary 4
Section 2: Case Narrative/Conformance Summary 8
Section 3: Summary of Hits 13
Section 4: Sample Results 26
4.1: MC27780-1: SED-1 27
4.2: MC27780-1A: SED-1 37
4.3: MC27780-2: SED-2 38
4.4: MC27780-2A: SED-2 48
4.5: MC27780-3: SED-3 49
4.6: MC27780-3A: SED-3 59
4.7: MC27780-4: SED-4 60
4.8: MC27780-4A: SED-4 70
4.9: MC27780-5: GP-1 1'-3' 71
4.10: MC27780-5A: GP-1 1'-3' 81
4.11: MC27780-6: GP-2 1'-3' 82
4.12: MC27780-6A: GP-2 1'-3' 90
4.13: MC27780-7: GP-3 1'-3' 91
4.14: MC27780-7A: GP-3 1'-3' 99
4.15: MC27780-8: GP-4 1'-3' 100
4.16: MC27780-8A: GP-4 1'-3' 110
4.17: MC27780-9: GP-5 1'-3' 111
4.18: MC27780-9A: GP-5 1'-3' 119
4.19: MC27780-10: GP-6 1'-3' 120
4.20: MC27780-10A: GP-6 1'-3' 128
4.21: MC27780-11: GP-7 1'-3' 129
4.22: MC27780-11A: GP-7 1'-3' 139
4.23: MC27780-12: GP-8 1'-3' 140
4.24: MC27780-12A: GP-8 1'-3' 148
4.25: MC27780-13: GP-9 1'-3' 149
4.26: MC27780-13A: GP-9 1'-3' 159
4.27: MC27780-14: GP-10 1'-3' 160
4.28: MC27780-14A: GP-10 1'-3' 168
4.29: MC27780-15: GP-11 1'-3' 169
4.30: MC27780-15A: GP-11 1'-3' 180
4.31: MC27780-16: GP-12 1'-3' 181
4.32: MC27780-16A: GP-12 1'-3' 189
4.33: MC27780-17: GP-13 1'-3' 190
4.34: MC27780-17A: GP-13 1'-3' 200
4.35: MC27780-18: GP-14 1'-3' 201
4.36: MC27780-18A: GP-14 1'-3' 209
4.37: MC27780-19: GP-15 1'-3' 210
4.38: MC27780-19A: GP-15 1'-3' 220

Table of Contents

4.39: MC27780-20: GP-16 1'-3' 221
4.40: MC27780-20A: GP-16 1'-3' 229
4.41: MC27780-21: GP-17 1'-3' 230
4.42: MC27780-21A: GP-17 1'-3' 238
4.43: MC27780-22: GP-18 1'-3' 239
4.44: MC27780-22A: GP-18 1'-3' 249
4.45: MC27780-23: GP-19 1'-3' 250
4.46: MC27780-23A: GP-19 1'-3' 258

Section 5: Misc. Forms 259
5.1: Chain of Custody 260
5.2: RCP Form 263
5.3: Sample Tracking Chronicle 264

Section 6: GC/MS Volatiles - QC Data Summaries 275
6.1: Method Blank Summary 276
6.2: Blank Spike Summary 282
6.3: Internal Standard Area Summaries 288
6.4: Surrogate Recovery Summaries 290

Section 7: GC/MS Semi-volatiles - QC Data Summaries 291
7.1: Method Blank Summary 292
7.2: Blank Spike Summary 301
7.3: Internal Standard Area Summaries 310
7.4: Surrogate Recovery Summaries 314

Section 8: GC Semi-volatiles - QC Data Summaries 316
8.1: Method Blank Summary 317
8.2: Blank Spike Summary 321
8.3: Matrix Spike/Matrix Spike Duplicate Summary 325
8.4: DDT/Endrin Breakdown Checks 327
8.5: Surrogate Recovery Summaries 332

Section 9: Metals Analysis - QC Data Summaries 335
9.1: Prep QC MP22414: Hg 336
9.2: Prep QC MP22415: Hg 339
9.3: Prep QC MP22416: As,Ba,Cd,Cr,Pb,Se,Ag 344
9.4: Prep QC MP22418: As,Ba,Cd,Cr,Pb,Se,Ag 356
9.5: Prep QC MP22419: As,Ba,Cd,Cr,Pb,Se,Ag 362
9.6: Prep QC MP22420: Hg 372
9.7: Prep QC MP22421: Hg 374
9.8: Prep QC MP22425: As,Ba,Cd,Cr,Pb,Se,Ag 378

Sample Summary

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27780-1	01/20/14	06:05	CK	01/20/14	SO	Sediment	SED-1
MC27780-1A	01/20/14	06:05	CK	01/20/14	SO	Sediment	SED-1
MC27780-2	01/20/14	06:35	CK	01/20/14	SO	Sediment	SED-2
MC27780-2A	01/20/14	06:35	CK	01/20/14	SO	Sediment	SED-2
MC27780-3	01/20/14	07:00	CK	01/20/14	SO	Sediment	SED-3
MC27780-3A	01/20/14	07:00	CK	01/20/14	SO	Sediment	SED-3
MC27780-4	01/20/14	07:20	CK	01/20/14	SO	Sediment	SED-4
MC27780-4A	01/20/14	07:20	CK	01/20/14	SO	Sediment	SED-4
MC27780-5	01/20/14	07:40	CK	01/20/14	SO	Soil	GP-1 1'-3'
MC27780-5A	01/20/14	07:40	CK	01/20/14	SO	Soil	GP-1 1'-3'
MC27780-6	01/20/14	08:00	CK	01/20/14	SO	Soil	GP-2 1'-3'
MC27780-6A	01/20/14	08:00	CK	01/20/14	SO	Soil	GP-2 1'-3'
MC27780-7	01/20/14	08:20	CK	01/20/14	SO	Soil	GP-3 1'-3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27780-7A	01/20/14	08:20	CK	01/20/14	SO	Soil	GP-3 1'-3'
MC27780-8	01/20/14	08:45	CK	01/20/14	SO	Soil	GP-4 1'-3'
MC27780-8A	01/20/14	08:45	CK	01/20/14	SO	Soil	GP-4 1'-3'
MC27780-9	01/20/14	09:00	CK	01/20/14	SO	Soil	GP-5 1'-3'
MC27780-9A	01/20/14	09:00	CK	01/20/14	SO	Soil	GP-5 1'-3'
MC27780-10	01/20/14	09:15	CK	01/20/14	SO	Soil	GP-6 1'-3'
MC27780-10A	01/20/14	09:15	CK	01/20/14	SO	Soil	GP-6 1'-3'
MC27780-11	01/20/14	09:50	CK	01/20/14	SO	Soil	GP-7 1'-3'
MC27780-11A	01/20/14	09:50	CK	01/20/14	SO	Soil	GP-7 1'-3'
MC27780-12	01/20/14	10:20	CK	01/20/14	SO	Soil	GP-8 1'-3'
MC27780-12A	01/20/14	10:20	CK	01/20/14	SO	Soil	GP-8 1'-3'
MC27780-13	01/20/14	14:00	CK	01/20/14	SO	Soil	GP-9 1'-3'
MC27780-13A	01/20/14	14:00	CK	01/20/14	SO	Soil	GP-9 1'-3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27780-14	01/20/14	13:40	CK	01/20/14	SO	Soil	GP-10 1'-3'
MC27780-14A	01/20/14	13:40	CK	01/20/14	SO	Soil	GP-10 1'-3'
MC27780-15	01/20/14	13:20	CK	01/20/14	SO	Soil	GP-11 1'-3'
MC27780-15A	01/20/14	13:20	CK	01/20/14	SO	Soil	GP-11 1'-3'
MC27780-16	01/20/14	13:05	CK	01/20/14	SO	Soil	GP-12 1'-3'
MC27780-16A	01/20/14	13:05	CK	01/20/14	SO	Soil	GP-12 1'-3'
MC27780-17	01/20/14	12:50	CK	01/20/14	SO	Soil	GP-13 1'-3'
MC27780-17A	01/20/14	12:50	CK	01/20/14	SO	Soil	GP-13 1'-3'
MC27780-18	01/20/14	12:35	CK	01/20/14	SO	Soil	GP-14 1'-3'
MC27780-18A	01/20/14	12:35	CK	01/20/14	SO	Soil	GP-14 1'-3'
MC27780-19	01/20/14	12:10	CK	01/20/14	SO	Soil	GP-15 1'-3'
MC27780-19A	01/20/14	12:10	CK	01/20/14	SO	Soil	GP-15 1'-3'
MC27780-20	01/20/14	11:55	CK	01/20/14	SO	Soil	GP-16 1'-3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC27780-20A	01/20/14	11:55	CK	01/20/14	SO	Soil	GP-16 1'-3'
MC27780-21	01/20/14	11:35	CK	01/20/14	SO	Soil	GP-17 1'-3'
MC27780-21A	01/20/14	11:35	CK	01/20/14	SO	Soil	GP-17 1'-3'
MC27780-22	01/20/14	11:15	CK	01/20/14	SO	Soil	GP-18 1'-3'
MC27780-22A	01/20/14	11:15	CK	01/20/14	SO	Soil	GP-18 1'-3'
MC27780-23	01/20/14	10:50	CK	01/20/14	SO	Soil	GP-19 1'-3'
MC27780-23A	01/20/14	10:50	CK	01/20/14	SO	Soil	GP-19 1'-3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	CDR Maguire	**Job No**	MC27780
Site:	Bridge 1358-Rte 139 Over Branford River, Branford, CT	**Report Date**	1/29/2014 5:01:38 PM

23 Sample(s) were collected on 01/20/2014 and were received at Accutest on 01/20/2014 properly preserved, at 0.9 Deg. C and intact. These Samples received an Accutest job number of MC27780. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix SO **Batch ID:** MSM2204

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acetone are outside control limits. Blank Spike meets program technical requirements.
- Calibration check stdanard MSM2204-CC2195 for chloroethane, acetone, methylene chloride, 1,1-dichloroethane, 2,2-dichloropropane, dibromofluoromethane, carbon tetrachloride, bromodichloromethane, trans-1,3-dichloropropene, 2-hexanone, bromofluorobenzene exceeded 20% Difference. This check standard met RCP criteria.
- Quadratic regression is employed for initial calibration standard MSM2195-ICC2195 for 2-hexanone.
- MC27780-6 for Tert Butyl Alcohol-D9: Outside control limits. Target analytes not associated with this internal standard.

Matrix SO **Batch ID:** MSM2205

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Calibration check stdanard MSM2205-CC2195 for dibromofluoromethane, tetrachloroethene, 2-hexanone, ethylbenzene, bromofluorobenzene, hexachlorobutadiene exceeded 20% Difference. This check standard met RCP criteria.

Extractables by GCMS By Method SW846 8270D

Matrix SO	Batch ID: OP36612

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Quadratic regression is employed for initial calibration standard MSF3146-ICC3146 for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol.
- Calibration check stdanard MSF3178-CC3146, MSF3180-CC3146 for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol exceeded 40% Difference (response biased high). Associated samples are non-detect for this compound.
- MC27780-18 for Phenol-d5: Outside control limits due to dilution.
- OP36612-BS for 4,6-Dinitro-o-cresol: Outside control limits. Associated samples are non-detect for this compound.

Matrix SO	Batch ID: OP36617

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, 4-Chloroaniline, Aniline, Hexachlorocyclopentadiene, Pyridine are outside control limits. Blank Spike meets program technical requirements.
- Calibration check stdanard MSR1352-CC1262 for 2,4-Dinitrophenol exceeded 20% Difference. This check standard met RCP criteria.

Matrix SO	Batch ID: OP36688

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for bis(2-Chloroisopropyl)ether, Hexachlorocyclopentadiene are outside control limits. Associated samples are non-detect for this compound.
- Initial calibration verification MSW729-ICV729 for Aniline, bis(2-chloroisopropyl)ether, Pentachloronitrobenzene exceed 30% Difference.
- Calibration check stdanard MSW766-CC729 for bis(2-Chloroethoxy)methane, 2,4,6-Tribromophenol exceeded 20% Difference. This check standard met RCP criteria.

Extractables by GC By Method CT-ETPH 7/06

Matrix SO	Batch ID: OP36599

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix SO	Batch ID: OP36614

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081

Matrix SO	**Batch ID:** OP36623

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27780-22MS, MC27780-22MSD were used as the QC samples indicated.
- MC27780-13,15,17,19: Confirmation run.
- MC27780-13,15,17,19 for Decachlorobiphenyl: Outside control limits due to matrix interference. Confirmed by reanalysis.
- MC27780-15 for Tetrachloro-m-xylene: Outside control limits due to possible matrix interference.
- MC27780-13,19 for Tetrachloro-m-xylene: Outside control limits due to matrix interference. Confirmed by reanalysis.
- MC27780-3 for Decachlorobiphenyl: Outside control limits due to possible matrix interference.
- MC27780-13,15,17,19 for 4,4'-DDE, 4,4'-DDT: Confirmation value >40% RPD.
- MC27780-3,11 for 4,4'-DDT: Confirmation value >40% RPD.

Extractables by GC By Method SW846 8082

Matrix SO	**Batch ID:** OP36622

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27780-1MS, MC27780-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix LEACHATE	**Batch ID:** MP22418

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27756-1ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Lead, Selenium are outside control limits for sample MP22418-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Matrix LEACHATE	**Batch ID:** MP22419

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27780-1AMS, MC27780-1AMSD, MC27780-1ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Cadmium, Chromium, Lead, Selenium are outside control limits for sample MP22419-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Matrix SO	**Batch ID:** MP22416

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27780-8MS, MC27780-8MSD, MC27780-8SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Selenium are outside control limits for sample MP22416-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP22416-SD1 for Barium, Chromium, Lead: Serial dilution indicates possible matrix interference.
- Only selected metals requested.

Matrix SO	**Batch ID:** MP22425

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27780-22MS, MC27780-22MSD, MC27780-22SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium are outside control limits for sample MP22425-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix LEACHATE	**Batch ID:** MP22420

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix LEACHATE	**Batch ID:** MP22421

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27780-1AMS, MC27780-1AMSD were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix	SO	**Batch ID:**	MP22414

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix	SO	**Batch ID:**	MP22415

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC27780-22MS, MC27780-22MSD were used as the QC samples for metals.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix	SO	**Batch ID:**	GN45763

- Sample(s) MC27780-17DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC27780).

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27780-1	**SED-1**					
Acetone		109	14		ug/kg	SW846 8260C
Benzo(a)anthracene		952	690		ug/kg	SW846 8270D
Benzo(a)pyrene		997	690		ug/kg	SW846 8270D
Benzo(b)fluoranthene		1050	690		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		721	690		ug/kg	SW846 8270D
Benzo(k)fluoranthene		987	690		ug/kg	SW846 8270D
Chrysene		1220	690		ug/kg	SW846 8270D
Fluoranthene		2060	690		ug/kg	SW846 8270D
Phenanthrene		760	690		ug/kg	SW846 8270D
Pyrene		1950	690		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		122	23		mg/kg	CT-ETPH 7/06
Arsenic		2.5	1.0		mg/kg	SW846 6010C
Barium		79.2	5.0		mg/kg	SW846 6010C
Cadmium		0.41	0.40		mg/kg	SW846 6010C
Chromium		13.4	1.0		mg/kg	SW846 6010C
Lead		28.7	1.0		mg/kg	SW846 6010C
MC27780-1A	**SED-1**					
No hits reported in this sample.						
MC27780-2	**SED-2**					
Benzo(a)anthracene		755	750		ug/kg	SW846 8270D
Benzo(a)pyrene		799	750		ug/kg	SW846 8270D
Benzo(b)fluoranthene		972	750		ug/kg	SW846 8270D
Chrysene		956	750		ug/kg	SW846 8270D
Fluoranthene		1600	750		ug/kg	SW846 8270D
Pyrene		1470	750		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		81.0	26		mg/kg	CT-ETPH 7/06
Arsenic		2.1	1.1		mg/kg	SW846 6010C
Barium		62.6	5.3		mg/kg	SW846 6010C
Chromium		11.3	1.1		mg/kg	SW846 6010C
Lead		19.3	1.1		mg/kg	SW846 6010C
MC27780-2A	**SED-2**					
No hits reported in this sample.						
MC27780-3	**SED-3**					
Acenaphthylene		3940	770		ug/kg	SW846 8270D
Anthracene		3380	770		ug/kg	SW846 8270D

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(a)anthracene		12500	770		ug/kg	SW846 8270D
Benzo(a)pyrene		13800	770		ug/kg	SW846 8270D
Benzo(b)fluoranthene		12600	770		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		10200	770		ug/kg	SW846 8270D
Benzo(k)fluoranthene		11200	770		ug/kg	SW846 8270D
Carbazole		1340	770		ug/kg	SW846 8270D
Chrysene		14300	770		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		2700	770		ug/kg	SW846 8270D
Fluoranthene		26500	770		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		9120	770		ug/kg	SW846 8270D
Phenanthrene		10900	770		ug/kg	SW846 8270D
Pyrene		24900	770		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		1140	130		mg/kg	CT-ETPH 7/06
4,4'-DDD		49.6	7.8		ug/kg	SW846 8081
4,4'-DDT [a]		13.7	7.8		ug/kg	SW846 8081
Arsenic		4.3	1.1		mg/kg	SW846 6010C
Barium		73.4	5.3		mg/kg	SW846 6010C
Cadmium		0.60	0.42		mg/kg	SW846 6010C
Chromium		29.3	1.1		mg/kg	SW846 6010C
Lead		189	1.1		mg/kg	SW846 6010C
Mercury		0.062	0.043		mg/kg	SW846 7471B
MC27780-3A	**SED-3**					
Lead		0.028	0.010		mg/l	SW846 6010C
MC27780-4	**SED-4**					
Acenaphthylene		210	170		ug/kg	SW846 8270D
Benzo(a)anthracene		575	170		ug/kg	SW846 8270D
Benzo(a)pyrene		756	170		ug/kg	SW846 8270D
Benzo(b)fluoranthene		774	170		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		582	170		ug/kg	SW846 8270D
Benzo(k)fluoranthene		704	170		ug/kg	SW846 8270D
Chrysene		912	170		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		179	170		ug/kg	SW846 8270D
Fluoranthene		1350	170		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		516	170		ug/kg	SW846 8270D
Phenanthrene		630	170		ug/kg	SW846 8270D
Pyrene		1400	170		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		163	28		mg/kg	CT-ETPH 7/06
Arsenic		3.2	1.0		mg/kg	SW846 6010C
Barium		110	5.1		mg/kg	SW846 6010C
Cadmium		0.44	0.40		mg/kg	SW846 6010C
Chromium		18.8	1.0		mg/kg	SW846 6010C

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		38.6	1.0		mg/kg	SW846 6010C
Mercury		0.083	0.046		mg/kg	SW846 7471B
MC27780-4A	**SED-4**					
No hits reported in this sample.						
MC27780-5	**GP-1 1'-3'**					
Acetone		49.9	11		ug/kg	SW846 8260C
Benzo(a)anthracene		722	550		ug/kg	SW846 8270D
Benzo(a)pyrene		831	550		ug/kg	SW846 8270D
Benzo(b)fluoranthene		822	550		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		724	550		ug/kg	SW846 8270D
Benzo(k)fluoranthene		802	550		ug/kg	SW846 8270D
Chrysene		820	550		ug/kg	SW846 8270D
Fluoranthene		1220	550		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		644	550		ug/kg	SW846 8270D
Pyrene		1130	550		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		91.3	19		mg/kg	CT-ETPH 7/06
4,4'-DDE		24.0	5.5		ug/kg	SW846 8081
4,4'-DDT		22.2	5.5		ug/kg	SW846 8081
Arsenic		2.7	0.91		mg/kg	SW846 6010C
Barium		45.3	4.6		mg/kg	SW846 6010C
Chromium		16.7	0.91		mg/kg	SW846 6010C
Lead		32.4	0.91		mg/kg	SW846 6010C
MC27780-5A	**GP-1 1'-3'**					
No hits reported in this sample.						
MC27780-6	**GP-2 1'-3'**					
Acetone		38.6	11		ug/kg	SW846 8260C
Benzo(a)anthracene		1190	550		ug/kg	SW846 8270D
Benzo(a)pyrene		1260	550		ug/kg	SW846 8270D
Benzo(b)fluoranthene		1280	550		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		961	550		ug/kg	SW846 8270D
Benzo(k)fluoranthene		1070	550		ug/kg	SW846 8270D
Chrysene		1380	550		ug/kg	SW846 8270D
Fluoranthene		2200	550		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		811	550		ug/kg	SW846 8270D
Phenanthrene		941	550		ug/kg	SW846 8270D
Pyrene		2200	550		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		102	19		mg/kg	CT-ETPH 7/06

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Arsenic		2.5	0.91		mg/kg	SW846 6010C
Barium		42.2	4.6		mg/kg	SW846 6010C
Chromium		12.8	0.91		mg/kg	SW846 6010C
Lead		11.4	0.91		mg/kg	SW846 6010C
Mercury		0.16	0.036		mg/kg	SW846 7471B

MC27780-6A GP-2 1'-3'

No hits reported in this sample.

MC27780-7 GP-3 1'-3'

Acetone	98.1	12		ug/kg	SW846 8260C
Acenaphthylene	192	110		ug/kg	SW846 8270D
Benzo(a)anthracene	501	110		ug/kg	SW846 8270D
Benzo(a)pyrene	576	110		ug/kg	SW846 8270D
Benzo(b)fluoranthene	531	110		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	432	110		ug/kg	SW846 8270D
Benzo(k)fluoranthene	560	110		ug/kg	SW846 8270D
Chrysene	636	110		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	115	110		ug/kg	SW846 8270D
Fluoranthene	1060	110		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	366	110		ug/kg	SW846 8270D
Phenanthrene	556	110		ug/kg	SW846 8270D
Pyrene	1050	110		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	53.4	19		mg/kg	CT-ETPH 7/06
Arsenic	2.3	0.95		mg/kg	SW846 6010C
Barium	60.3	4.8		mg/kg	SW846 6010C
Chromium	18.7	0.95		mg/kg	SW846 6010C
Lead	11.2	0.95		mg/kg	SW846 6010C

MC27780-7A GP-3 1'-3'

No hits reported in this sample.

MC27780-8 GP-4 1'-3'

Benzo(a)anthracene	163	110		ug/kg	SW846 8270D
Benzo(a)pyrene	157	110		ug/kg	SW846 8270D
Benzo(b)fluoranthene	157	110		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	114	110		ug/kg	SW846 8270D
Benzo(k)fluoranthene	143	110		ug/kg	SW846 8270D
Chrysene	180	110		ug/kg	SW846 8270D
Fluoranthene	340	110		ug/kg	SW846 8270D
Phenanthrene	203	110		ug/kg	SW846 8270D

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Pyrene		328	110		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		28.6	19		mg/kg	CT-ETPH 7/06
Arsenic		2.2	0.93		mg/kg	SW846 6010C
Barium		42.5	4.6		mg/kg	SW846 6010C
Chromium		18.8	0.93		mg/kg	SW846 6010C
Lead		9.0	0.93		mg/kg	SW846 6010C
MC27780-8A	**GP-4 1'-3'**					
No hits reported in this sample.						
MC27780-9	**GP-5 1'-3'**					
Acetone		131	11		ug/kg	SW846 8260C
Acenaphthylene		1650	560		ug/kg	SW846 8270D
Anthracene		1230	560		ug/kg	SW846 8270D
Benzo(a)anthracene		6820	560		ug/kg	SW846 8270D
Benzo(a)pyrene		7270	560		ug/kg	SW846 8270D
Benzo(b)fluoranthene		6690	560		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		5470	560		ug/kg	SW846 8270D
Benzo(k)fluoranthene		5980	560		ug/kg	SW846 8270D
Chrysene		7270	560		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		1590	560		ug/kg	SW846 8270D
Fluoranthene		12100	560		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		4820	560		ug/kg	SW846 8270D
Phenanthrene		4870	560		ug/kg	SW846 8270D
Pyrene		10900	560		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		280	94		mg/kg	CT-ETPH 7/06
Arsenic		2.9	0.93		mg/kg	SW846 6010C
Barium		48.7	4.6		mg/kg	SW846 6010C
Chromium		13.7	0.93		mg/kg	SW846 6010C
Lead		18.8	0.93		mg/kg	SW846 6010C
Mercury		0.040	0.037		mg/kg	SW846 7471B
MC27780-9A	**GP-5 1'-3'**					
Lead		0.012	0.010		mg/l	SW846 6010C
MC27780-10	**GP-6 1'-3'**					
Acenaphthylene		3520	560		ug/kg	SW846 8270D
Anthracene		2820	560		ug/kg	SW846 8270D
Benzo(a)anthracene		16200	560		ug/kg	SW846 8270D
Benzo(a)pyrene		17700	560		ug/kg	SW846 8270D
Benzo(b)fluoranthene		17100	560		ug/kg	SW846 8270D

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(g,h,i)perylene	13700	560		ug/kg	SW846 8270D
Benzo(k)fluoranthene	13800	560		ug/kg	SW846 8270D
Carbazole	688	560		ug/kg	SW846 8270D
Chrysene	17500	560		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	4360	560		ug/kg	SW846 8270D
Fluoranthene	27600	560		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	12200	560		ug/kg	SW846 8270D
Phenanthrene	10700	560		ug/kg	SW846 8270D
Pyrene	28000	560		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	799	95		mg/kg	CT-ETPH 7/06
Arsenic	3.0	0.94		mg/kg	SW846 6010C
Barium	46.9	4.7		mg/kg	SW846 6010C
Chromium	13.8	0.94		mg/kg	SW846 6010C
Lead	40.0	0.94		mg/kg	SW846 6010C
MC27780-10A GP-6 1'-3'					
Lead	0.018	0.010		mg/l	SW846 6010C
MC27780-11 GP-7 1'-3'					
Acetone	83.6	12		ug/kg	SW846 8260C
Acenaphthylene	1900	570		ug/kg	SW846 8270D
Anthracene	1070	570		ug/kg	SW846 8270D
Benzo(a)anthracene	4500	570		ug/kg	SW846 8270D
Benzo(a)pyrene	4830	570		ug/kg	SW846 8270D
Benzo(b)fluoranthene	4460	570		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	3810	570		ug/kg	SW846 8270D
Benzo(k)fluoranthene	4050	570		ug/kg	SW846 8270D
Chrysene	5200	570		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	1000	570		ug/kg	SW846 8270D
Fluoranthene	9050	570		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	3310	570		ug/kg	SW846 8270D
Phenanthrene	3830	570		ug/kg	SW846 8270D
Pyrene	8300	570		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	474	96		mg/kg	CT-ETPH 7/06
4,4'-DDT [a]	34.0	5.9		ug/kg	SW846 8081
Arsenic	2.4	0.93		mg/kg	SW846 6010C
Barium	43.1	4.7		mg/kg	SW846 6010C
Chromium	16.6	0.93		mg/kg	SW846 6010C
Lead	81.3	0.93		mg/kg	SW846 6010C
MC27780-11A GP-7 1'-3'					
Lead	0.033	0.010		mg/l	SW846 6010C

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC27780-12	**GP-8 1'-3'**					
Acetone		44.8	12		ug/kg	SW846 8260C
Acenaphthylene		1570	550		ug/kg	SW846 8270D
Anthracene		883	550		ug/kg	SW846 8270D
Benzo(a)anthracene		3650	550		ug/kg	SW846 8270D
Benzo(a)pyrene		3830	550		ug/kg	SW846 8270D
Benzo(b)fluoranthene		3780	550		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		2940	550		ug/kg	SW846 8270D
Benzo(k)fluoranthene		2840	550		ug/kg	SW846 8270D
Chrysene		4130	550		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		794	550		ug/kg	SW846 8270D
Fluoranthene		7130	550		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		2570	550		ug/kg	SW846 8270D
Phenanthrene		3150	550		ug/kg	SW846 8270D
Pyrene		6660	550		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		450	93		mg/kg	CT-ETPH 7/06
Arsenic		2.6	0.92		mg/kg	SW846 6010C
Barium		48.5	4.6		mg/kg	SW846 6010C
Chromium		16.7	0.92		mg/kg	SW846 6010C
Lead		54.9	0.92		mg/kg	SW846 6010C
MC27780-12A	**GP-8 1'-3'**					
Lead		0.029	0.010		mg/l	SW846 6010C
MC27780-13	**GP-9 1'-3'**					
Acetone		85.7	12		ug/kg	SW846 8260C
Acenaphthylene		3690	570		ug/kg	SW846 8270D
Anthracene		2230	570		ug/kg	SW846 8270D
Benzo(a)anthracene		9000	570		ug/kg	SW846 8270D
Benzo(a)pyrene		9760	570		ug/kg	SW846 8270D
Benzo(b)fluoranthene		9700	570		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		7590	570		ug/kg	SW846 8270D
Benzo(k)fluoranthene		6870	570		ug/kg	SW846 8270D
Carbazole		706	570		ug/kg	SW846 8270D
Chrysene		10400	570		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		2040	570		ug/kg	SW846 8270D
Fluoranthene		17200	570		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		6680	570		ug/kg	SW846 8270D
Phenanthrene		8310	570		ug/kg	SW846 8270D
Pyrene		16500	570		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		1000	96		mg/kg	CT-ETPH 7/06

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
4,4'-DDE [a]		10.4	5.8		ug/kg	SW846 8081
4,4'-DDT [a]		74.3	5.8		ug/kg	SW846 8081
Aroclor 1260		42.4	29		ug/kg	SW846 8082
Arsenic		3.0	0.93		mg/kg	SW846 6010C
Barium		41.7	4.7		mg/kg	SW846 6010C
Cadmium		0.46	0.37		mg/kg	SW846 6010C
Chromium		20.6	0.93		mg/kg	SW846 6010C
Lead		125	0.93		mg/kg	SW846 6010C
Mercury		0.039	0.036		mg/kg	SW846 7471B
MC27780-13A	**GP-9 1'-3'**					
Lead		0.039	0.010		mg/l	SW846 6010C
MC27780-14	**GP-10 1'-3'**					
Acetone		94.3	12		ug/kg	SW846 8260C
Acenaphthylene		4890	540		ug/kg	SW846 8270D
Anthracene		3120	540		ug/kg	SW846 8270D
Benzo(a)anthracene		11500	540		ug/kg	SW846 8270D
Benzo(a)pyrene		10800	540		ug/kg	SW846 8270D
Benzo(b)fluoranthene		9990	540		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		7770	540		ug/kg	SW846 8270D
Benzo(k)fluoranthene		8220	540		ug/kg	SW846 8270D
Carbazole		685	540		ug/kg	SW846 8270D
Chrysene		12300	540		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		2300	540		ug/kg	SW846 8270D
Fluoranthene		20000	540		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		7070	540		ug/kg	SW846 8270D
Phenanthrene		9510	540		ug/kg	SW846 8270D
Pyrene		20300	540		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		821	89		mg/kg	CT-ETPH 7/06
Arsenic		3.9	0.91		mg/kg	SW846 6010C
Barium		43.1	4.6		mg/kg	SW846 6010C
Chromium		14.1	0.91		mg/kg	SW846 6010C
Lead		71.5	0.91		mg/kg	SW846 6010C
Mercury		0.040	0.033		mg/kg	SW846 7471B
MC27780-14A	**GP-10 1'-3'**					
Lead		0.024	0.010		mg/l	SW846 6010C
MC27780-15	**GP-11 1'-3'**					
Acetone		60.8	11		ug/kg	SW846 8260C

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Acenaphthylene	5140	560		ug/kg	SW846 8270D
Anthracene	3490	560		ug/kg	SW846 8270D
Benzo(a)anthracene	12200	560		ug/kg	SW846 8270D
Benzo(a)pyrene	11300	560		ug/kg	SW846 8270D
Benzo(b)fluoranthene	10600	560		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	7850	560		ug/kg	SW846 8270D
Benzo(k)fluoranthene	8440	560		ug/kg	SW846 8270D
Carbazole	727	560		ug/kg	SW846 8270D
Chrysene	12800	560		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	2350	560		ug/kg	SW846 8270D
Fluoranthene	21800	560		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	7190	560		ug/kg	SW846 8270D
Phenanthrene	10600	560		ug/kg	SW846 8270D
Pyrene	22200	560		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	803	93		mg/kg	CT-ETPH 7/06
4,4'-DDE [a]	7.7	5.6		ug/kg	SW846 8081
4,4'-DDT [a]	29.4	5.6		ug/kg	SW846 8081
Arsenic	3.3	0.90		mg/kg	SW846 6010C
Barium	40.2	4.5		mg/kg	SW846 6010C
Chromium	12.6	0.90		mg/kg	SW846 6010C
Lead	62.2	0.90		mg/kg	SW846 6010C
MC27780-15A GP-11 1'-3'					
Lead	0.026	0.010		mg/l	SW846 6010C
MC27780-16 GP-12 1'-3'					
Acenaphthylene	8380	530		ug/kg	SW846 8270D
Anthracene	4850	530		ug/kg	SW846 8270D
Benzo(a)anthracene	20300	530		ug/kg	SW846 8270D
Benzo(a)pyrene	21200	530		ug/kg	SW846 8270D
Benzo(b)fluoranthene	18600	530		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	15100	530		ug/kg	SW846 8270D
Benzo(k)fluoranthene	20200	530		ug/kg	SW846 8270D
Carbazole	1650	530		ug/kg	SW846 8270D
Chrysene	23600	530		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	5170	530		ug/kg	SW846 8270D
Fluoranthene	36900	530		ug/kg	SW846 8270D
Fluorene	824	530		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	14000	530		ug/kg	SW846 8270D
Phenanthrene	17100	530		ug/kg	SW846 8270D
Pyrene	33700	530		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	1340	91		mg/kg	CT-ETPH 7/06
Arsenic	2.1	0.90		mg/kg	SW846 6010C

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium		33.4	4.5		mg/kg	SW846 6010C
Chromium		16.8	0.90		mg/kg	SW846 6010C
Lead		107	0.90		mg/kg	SW846 6010C
MC27780-16A	**GP-12 1'-3'**					
Lead		0.039	0.010		mg/l	SW846 6010C
MC27780-17	**GP-13 1'-3'**					
Acetone		99.8	11		ug/kg	SW846 8260C
Acenaphthylene		3850	530		ug/kg	SW846 8270D
Anthracene		2390	530		ug/kg	SW846 8270D
Benzo(a)anthracene		11300	530		ug/kg	SW846 8270D
Benzo(a)pyrene		11000	530		ug/kg	SW846 8270D
Benzo(b)fluoranthene		11600	530		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		7430	530		ug/kg	SW846 8270D
Benzo(k)fluoranthene		7890	530		ug/kg	SW846 8270D
Carbazole		632	530		ug/kg	SW846 8270D
Chrysene		12400	530		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		2640	530		ug/kg	SW846 8270D
Fluoranthene		20400	530		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		6770	530		ug/kg	SW846 8270D
Phenanthrene		6810	530		ug/kg	SW846 8270D
Pyrene		18000	530		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		834	90		mg/kg	CT-ETPH 7/06
4,4'-DDE [a]		9.5	5.5		ug/kg	SW846 8081
4,4'-DDT [a]		63.1	5.5		ug/kg	SW846 8081
Arsenic		2.6	0.91		mg/kg	SW846 6010C
Barium		38.7	4.5		mg/kg	SW846 6010C
Cadmium		0.37	0.36		mg/kg	SW846 6010C
Chromium		22.1	0.91		mg/kg	SW846 6010C
Lead		87.6	0.91		mg/kg	SW846 6010C
MC27780-17A	**GP-13 1'-3'**					
Lead		0.040	0.010		mg/l	SW846 6010C
MC27780-18	**GP-14 1'-3'**					
Acetone		172	11		ug/kg	SW846 8260C
Acenaphthylene		10600	540		ug/kg	SW846 8270D
Anthracene		7290	540		ug/kg	SW846 8270D
Benzo(a)anthracene		29100	540		ug/kg	SW846 8270D
Benzo(a)pyrene		25500	540		ug/kg	SW846 8270D

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(b)fluoranthene	26600	540		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	15900	540		ug/kg	SW846 8270D
Benzo(k)fluoranthene	22600	540		ug/kg	SW846 8270D
Carbazole	3390	540		ug/kg	SW846 8270D
Chrysene	32900	540		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	6120	540		ug/kg	SW846 8270D
Dibenzofuran	781	540		ug/kg	SW846 8270D
Fluoranthene	73100	2700		ug/kg	SW846 8270D
Fluorene	1700	540		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	15700	540		ug/kg	SW846 8270D
Phenanthrene	37500	540		ug/kg	SW846 8270D
Pyrene	56500	2700		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	1280	93		mg/kg	CT-ETPH 7/06
Arsenic	1.7	0.91		mg/kg	SW846 6010C
Barium	26.1	4.6		mg/kg	SW846 6010C
Chromium	19.0	0.91		mg/kg	SW846 6010C
Lead	133	0.91		mg/kg	SW846 6010C
MC27780-18A GP-14 1'-3'					
Lead	0.060	0.010		mg/l	SW846 6010C
MC27780-19 GP-15 1'-3'					
Acetone	111	12		ug/kg	SW846 8260C
Acenaphthylene	6180	590		ug/kg	SW846 8270D
Anthracene	3380	590		ug/kg	SW846 8270D
Benzo(a)anthracene	11100	590		ug/kg	SW846 8270D
Benzo(a)pyrene	11400	590		ug/kg	SW846 8270D
Benzo(b)fluoranthene	12800	590		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	7410	590		ug/kg	SW846 8270D
Benzo(k)fluoranthene	8580	590		ug/kg	SW846 8270D
Carbazole	1640	590		ug/kg	SW846 8270D
Chrysene	14200	590		ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	2510	590		ug/kg	SW846 8270D
Fluoranthene	26200	590		ug/kg	SW846 8270D
Fluorene	742	590		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	7230	590		ug/kg	SW846 8270D
Phenanthrene	13800	590		ug/kg	SW846 8270D
Pyrene	22000	590		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	189	19		mg/kg	CT-ETPH 7/06
4,4'-DDE [a]	10.0	5.9		ug/kg	SW846 8081
4,4'-DDT [a]	59.8	5.9		ug/kg	SW846 8081
Arsenic	2.5	0.97		mg/kg	SW846 6010C
Barium	35.0	4.8		mg/kg	SW846 6010C

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium		15.0	0.97		mg/kg	SW846 6010C
Lead		49.4	0.97		mg/kg	SW846 6010C
Mercury		0.041	0.037		mg/kg	SW846 7471B
MC27780-19A	**GP-15 1'-3'**					
No hits reported in this sample.						
MC27780-20	**GP-16 1'-3'**					
Acetone		31.1	11		ug/kg	SW846 8260C
Arsenic		1.8	0.91		mg/kg	SW846 6010C
Barium		55.9	4.6		mg/kg	SW846 6010C
Chromium		13.3	0.91		mg/kg	SW846 6010C
Lead		6.1	0.91		mg/kg	SW846 6010C
MC27780-20A	**GP-16 1'-3'**					
No hits reported in this sample.						
MC27780-21	**GP-17 1'-3'**					
Benzo(a)pyrene		114	110		ug/kg	SW846 8270D
Benzo(b)fluoranthene		129	110		ug/kg	SW846 8270D
Benzo(k)fluoranthene		112	110		ug/kg	SW846 8270D
Chrysene		126	110		ug/kg	SW846 8270D
Fluoranthene		216	110		ug/kg	SW846 8270D
Pyrene		199	110		ug/kg	SW846 8270D
CT-ETPH (C9-C36)		127	19		mg/kg	CT-ETPH 7/06
Arsenic		0.93	0.91		mg/kg	SW846 6010C
Barium		36.3	4.5		mg/kg	SW846 6010C
Chromium		10.7	0.91		mg/kg	SW846 6010C
Lead		21.6	0.91		mg/kg	SW846 6010C
MC27780-21A	**GP-17 1'-3'**					
No hits reported in this sample.						
MC27780-22	**GP-18 1'-3'**					
Acenaphthylene		147	100		ug/kg	SW846 8270D
Benzo(a)anthracene		211	100		ug/kg	SW846 8270D
Benzo(a)pyrene		237	100		ug/kg	SW846 8270D
Benzo(b)fluoranthene		254	100		ug/kg	SW846 8270D
Benzo(g,h,i)perylene		154	100		ug/kg	SW846 8270D

Summary of Hits

Job Number: MC27780
Account: CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT
Collected: 01/20/14

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene	233	100		ug/kg	SW846 8270D
Chrysene	279	100		ug/kg	SW846 8270D
Fluoranthene	528	100		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	145	100		ug/kg	SW846 8270D
Phenanthrene	272	100		ug/kg	SW846 8270D
Pyrene	493	100		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	27.7	17		mg/kg	CT-ETPH 7/06
Barium	17.3	4.7		mg/kg	SW846 6010C
Chromium	4.8	0.94		mg/kg	SW846 6010C
Lead	24.7	0.94		mg/kg	SW846 6010C

MC27780-22A GP-18 1'-3'

No hits reported in this sample.

MC27780-23 GP-19 1'-3'

Acenaphthylene	137	110		ug/kg	SW846 8270D
Benzo(a)anthracene	197	110		ug/kg	SW846 8270D
Benzo(a)pyrene	235	110		ug/kg	SW846 8270D
Benzo(b)fluoranthene	232	110		ug/kg	SW846 8270D
Benzo(g,h,i)perylene	163	110		ug/kg	SW846 8270D
Benzo(k)fluoranthene	216	110		ug/kg	SW846 8270D
Chrysene	218	110		ug/kg	SW846 8270D
Fluoranthene	374	110		ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	152	110		ug/kg	SW846 8270D
Phenanthrene	110	110		ug/kg	SW846 8270D
Pyrene	349	110		ug/kg	SW846 8270D
CT-ETPH (C9-C36)	30.8	17		mg/kg	CT-ETPH 7/06
Arsenic	1.5	0.96		mg/kg	SW846 6010C
Barium	52.6	4.8		mg/kg	SW846 6010C
Chromium	113	0.96		mg/kg	SW846 6010C
Lead	12.5	0.96		mg/kg	SW846 6010C

MC27780-23A GP-19 1'-3'

Chromium	0.012	0.010		mg/l	SW846 6010C

(a) Confirmation value > 40% RPD.

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62909.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	5.09 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	109	14	ug/kg	
107-13-1	Acrylonitrile	ND	35	ug/kg	
71-43-2	Benzene	ND	0.70	ug/kg	
108-86-1	Bromobenzene	ND	7.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	ug/kg	
75-25-2	Bromoform	ND	2.8	ug/kg	
74-83-9	Bromomethane	ND	2.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	ug/kg	
104-51-8	n-Butylbenzene	ND	7.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.0	ug/kg	
75-15-0	Carbon disulfide	ND	7.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	ug/kg	
75-00-3	Chloroethane	ND	7.0	ug/kg	
67-66-3	Chloroform	ND	2.8	ug/kg	
74-87-3	Chloromethane	ND	7.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	7.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	7.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.8	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.8	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.8	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.8	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.8	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	7.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	7.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	7.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	ug/kg	
100-41-4	Ethylbenzene	ND	2.8	ug/kg	
76-13-1	Freon 113	ND	7.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7.0	ug/kg	
591-78-6	2-Hexanone	ND	14	ug/kg	
98-82-8	Isopropylbenzene	ND	7.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.0	ug/kg	
74-95-3	Methylene bromide	ND	7.0	ug/kg	
75-09-2	Methylene chloride	ND	2.8	ug/kg	
91-20-3	Naphthalene	ND	7.0	ug/kg	
103-65-1	n-Propylbenzene	ND	7.0	ug/kg	
100-42-5	Styrene	ND	7.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	7.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	ug/kg	
109-99-9	Tetrahydrofuran	ND	14	ug/kg	
108-88-3	Toluene	ND	7.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	7.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	ug/kg	
79-01-6	Trichloroethene	ND	2.8	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	ug/kg	
	m,p-Xylene	ND	2.8	ug/kg	
95-47-6	o-Xylene	ND	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71363.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1700	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	6900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3500	ug/kg	
95-48-7	2-Methylphenol	ND	3500	ug/kg	
106-44-5	4-Methylphenol	ND	3500	ug/kg	
88-75-5	2-Nitrophenol	ND	3500	ug/kg	
100-02-7	4-Nitrophenol	ND	6900	ug/kg	
87-86-5	Pentachlorophenol	ND	3500	ug/kg	
108-95-2	Phenol	ND	1700	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3500	ug/kg	
83-32-9	Acenaphthene	ND	690	ug/kg	
208-96-8	Acenaphthylene	ND	690	ug/kg	
62-53-3	Aniline	ND	3500	ug/kg	
120-12-7	Anthracene	ND	690	ug/kg	
56-55-3	Benzo(a)anthracene	952	690	ug/kg	
50-32-8	Benzo(a)pyrene	997	690	ug/kg	
205-99-2	Benzo(b)fluoranthene	1050	690	ug/kg	
191-24-2	Benzo(g,h,i)perylene	721	690	ug/kg	
207-08-9	Benzo(k)fluoranthene	987	690	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1700	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1700	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1700	ug/kg	
106-47-8	4-Chloroaniline	ND	3500	ug/kg	
86-74-8	Carbazole	ND	690	ug/kg	
218-01-9	Chrysene	1220	690	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1700	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1700	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1700	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1700	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	690	ug/kg	
132-64-9	Dibenzofuran	ND	690	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1700	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1700	ug/kg	
84-66-2	Diethyl phthalate	ND	1700	ug/kg	
131-11-3	Dimethyl phthalate	ND	1700	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1700	ug/kg	
206-44-0	Fluoranthene	2060	690	ug/kg	
86-73-7	Fluorene	ND	690	ug/kg	
118-74-1	Hexachlorobenzene	ND	1700	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1700	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3500	ug/kg	
67-72-1	Hexachloroethane	ND	1700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	690	ug/kg	
78-59-1	Isophorone	ND	1700	ug/kg	
91-57-6	2-Methylnaphthalene	ND	690	ug/kg	
88-74-4	2-Nitroaniline	ND	3500	ug/kg	
99-09-2	3-Nitroaniline	ND	3500	ug/kg	
100-01-6	4-Nitroaniline	ND	3500	ug/kg	
91-20-3	Naphthalene	ND	690	ug/kg	
98-95-3	Nitrobenzene	ND	1700	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1700	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1700	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	3500	ug/kg	
85-01-8	Phenanthrene	760	690	ug/kg	
129-00-0	Pyrene	1950	690	ug/kg	
110-86-1	Pyridine	ND	3500	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	3500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		30-130%
4165-62-2	Phenol-d5	58%		30-130%
118-79-6	2,4,6-Tribromophenol	69%		30-130%
4165-60-0	Nitrobenzene-d5	50%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40262.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	72	ug/kg	
309-00-2	Aldrin	ND	7.2	ug/kg	
319-84-6	alpha-BHC	ND	7.2	ug/kg	
319-85-7	beta-BHC	ND	7.2	ug/kg	
319-86-8	delta-BHC	ND	7.2	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	7.2	ug/kg	
12789-03-6	Chlordane	ND	72	ug/kg	
60-57-1	Dieldrin	ND	7.2	ug/kg	
72-54-8	4,4'-DDD	ND	7.2	ug/kg	
72-55-9	4,4'-DDE	ND	7.2	ug/kg	
50-29-3	4,4'-DDT	ND	7.2	ug/kg	
72-20-8	Endrin	ND	7.2	ug/kg	
1031-07-8	Endosulfan sulfate	ND	7.2	ug/kg	
7421-93-4	Endrin aldehyde	ND	7.2	ug/kg	
959-98-8	Endosulfan-I	ND	7.2	ug/kg	
33213-65-9	Endosulfan-II	ND	7.2	ug/kg	
76-44-8	Heptachlor	ND	7.2	ug/kg	
1024-57-3	Heptachlor epoxide	ND	7.2	ug/kg	
72-43-5	Methoxychlor	ND	7.2	ug/kg	
53494-70-5	Endrin ketone	ND	7.2	ug/kg	
8001-35-2	Toxaphene	ND	72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		30-150%
877-09-8	Tetrachloro-m-xylene	57%		30-150%
2051-24-3	Decachlorobiphenyl	74%		30-150%
2051-24-3	Decachlorobiphenyl	56%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34254.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	36	ug/kg	
11104-28-2	Aroclor 1221	ND	36	ug/kg	
11141-16-5	Aroclor 1232	ND	36	ug/kg	
53469-21-9	Aroclor 1242	ND	36	ug/kg	
12672-29-6	Aroclor 1248	ND	36	ug/kg	
11097-69-1	Aroclor 1254	ND	36	ug/kg	
11096-82-5	Aroclor 1260	ND	36	ug/kg	
37324-23-5	Aroclor 1262	ND	36	ug/kg	
11100-14-4	Aroclor 1268	ND	36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		30-150%
877-09-8	Tetrachloro-m-xylene	92%		30-150%
2051-24-3	Decachlorobiphenyl	86%		30-150%
2051-24-3	Decachlorobiphenyl	93%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659787.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	122	23	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.5	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	79.2	5.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.41	0.40	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	13.4	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	28.7	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.040	0.040	mg/kg	1	01/23/14	01/23/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 1.0	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.50	0.50	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16681
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22414
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SED-1		
Lab Sample ID:	MC27780-1A	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	69.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62910.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.86 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	16	ug/kg	
107-13-1	Acrylonitrile	ND	40	ug/kg	
71-43-2	Benzene	ND	0.80	ug/kg	
108-86-1	Bromobenzene	ND	8.0	ug/kg	
75-27-4	Bromodichloromethane	ND	3.2	ug/kg	
75-25-2	Bromoform	ND	3.2	ug/kg	
74-83-9	Bromomethane	ND	3.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	ug/kg	
104-51-8	n-Butylbenzene	ND	8.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	8.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	8.0	ug/kg	
75-15-0	Carbon disulfide	ND	8.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.2	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	ug/kg	
75-00-3	Chloroethane	ND	8.0	ug/kg	
67-66-3	Chloroform	ND	3.2	ug/kg	
74-87-3	Chloromethane	ND	8.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	8.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	8.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	ug/kg	
124-48-1	Dibromochloromethane	ND	3.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	8.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	8.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	ug/kg	
100-41-4	Ethylbenzene	ND	3.2	ug/kg	
76-13-1	Freon 113	ND	8.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	8.0	ug/kg	
591-78-6	2-Hexanone	ND	16	ug/kg	
98-82-8	Isopropylbenzene	ND	8.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	8.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	8.0	ug/kg	
74-95-3	Methylene bromide	ND	8.0	ug/kg	
75-09-2	Methylene chloride	ND	3.2	ug/kg	
91-20-3	Naphthalene	ND	8.0	ug/kg	
103-65-1	n-Propylbenzene	ND	8.0	ug/kg	
100-42-5	Styrene	ND	8.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	8.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	ug/kg	
127-18-4	Tetrachloroethene	ND	3.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	16	ug/kg	
108-88-3	Toluene	ND	8.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	8.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	8.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.2	ug/kg	
79-01-6	Trichloroethene	ND	3.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	8.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	8.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	8.0	ug/kg	
75-01-4	Vinyl chloride	ND	3.2	ug/kg	
	m,p-Xylene	ND	3.2	ug/kg	
95-47-6	o-Xylene	ND	3.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71364.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1900	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	7500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3700	ug/kg	
95-48-7	2-Methylphenol	ND	3700	ug/kg	
106-44-5	4-Methylphenol	ND	3700	ug/kg	
88-75-5	2-Nitrophenol	ND	3700	ug/kg	
100-02-7	4-Nitrophenol	ND	7500	ug/kg	
87-86-5	Pentachlorophenol	ND	3700	ug/kg	
108-95-2	Phenol	ND	1900	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3700	ug/kg	
83-32-9	Acenaphthene	ND	750	ug/kg	
208-96-8	Acenaphthylene	ND	750	ug/kg	
62-53-3	Aniline	ND	3700	ug/kg	
120-12-7	Anthracene	ND	750	ug/kg	
56-55-3	Benzo(a)anthracene	755	750	ug/kg	
50-32-8	Benzo(a)pyrene	799	750	ug/kg	
205-99-2	Benzo(b)fluoranthene	972	750	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	750	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	750	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1900	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1900	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1900	ug/kg	
106-47-8	4-Chloroaniline	ND	3700	ug/kg	
86-74-8	Carbazole	ND	750	ug/kg	
218-01-9	Chrysene	956	750	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1900	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1900	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1900	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1900	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1900	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	750	ug/kg	
132-64-9	Dibenzofuran	ND	750	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1900	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1900	ug/kg	
84-66-2	Diethyl phthalate	ND	1900	ug/kg	
131-11-3	Dimethyl phthalate	ND	1900	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1900	ug/kg	
206-44-0	Fluoranthene	1600	750	ug/kg	
86-73-7	Fluorene	ND	750	ug/kg	
118-74-1	Hexachlorobenzene	ND	1900	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1900	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3700	ug/kg	
67-72-1	Hexachloroethane	ND	1900	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	750	ug/kg	
78-59-1	Isophorone	ND	1900	ug/kg	
91-57-6	2-Methylnaphthalene	ND	750	ug/kg	
88-74-4	2-Nitroaniline	ND	3700	ug/kg	
99-09-2	3-Nitroaniline	ND	3700	ug/kg	
100-01-6	4-Nitroaniline	ND	3700	ug/kg	
91-20-3	Naphthalene	ND	750	ug/kg	
98-95-3	Nitrobenzene	ND	1900	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1900	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1900	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	3700	ug/kg	
85-01-8	Phenanthrene	ND	750	ug/kg	
129-00-0	Pyrene	1470	750	ug/kg	
110-86-1	Pyridine	ND	3700	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	3700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		30-130%
4165-62-2	Phenol-d5	46%		30-130%
118-79-6	2,4,6-Tribromophenol	69%		30-130%
4165-60-0	Nitrobenzene-d5	38%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	52%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40263.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	75	ug/kg	
309-00-2	Aldrin	ND	7.5	ug/kg	
319-84-6	alpha-BHC	ND	7.5	ug/kg	
319-85-7	beta-BHC	ND	7.5	ug/kg	
319-86-8	delta-BHC	ND	7.5	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	7.5	ug/kg	
12789-03-6	Chlordane	ND	75	ug/kg	
60-57-1	Dieldrin	ND	7.5	ug/kg	
72-54-8	4,4'-DDD	ND	7.5	ug/kg	
72-55-9	4,4'-DDE	ND	7.5	ug/kg	
50-29-3	4,4'-DDT	ND	7.5	ug/kg	
72-20-8	Endrin	ND	7.5	ug/kg	
1031-07-8	Endosulfan sulfate	ND	7.5	ug/kg	
7421-93-4	Endrin aldehyde	ND	7.5	ug/kg	
959-98-8	Endosulfan-I	ND	7.5	ug/kg	
33213-65-9	Endosulfan-II	ND	7.5	ug/kg	
76-44-8	Heptachlor	ND	7.5	ug/kg	
1024-57-3	Heptachlor epoxide	ND	7.5	ug/kg	
72-43-5	Methoxychlor	ND	7.5	ug/kg	
53494-70-5	Endrin ketone	ND	7.5	ug/kg	
8001-35-2	Toxaphene	ND	75	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		30-150%
877-09-8	Tetrachloro-m-xylene	57%		30-150%
2051-24-3	Decachlorobiphenyl	66%		30-150%
2051-24-3	Decachlorobiphenyl	51%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34255.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	37	ug/kg	
11104-28-2	Aroclor 1221	ND	37	ug/kg	
11141-16-5	Aroclor 1232	ND	37	ug/kg	
53469-21-9	Aroclor 1242	ND	37	ug/kg	
12672-29-6	Aroclor 1248	ND	37	ug/kg	
11097-69-1	Aroclor 1254	ND	37	ug/kg	
11096-82-5	Aroclor 1260	ND	37	ug/kg	
37324-23-5	Aroclor 1262	ND	37	ug/kg	
11100-14-4	Aroclor 1268	ND	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		30-150%
877-09-8	Tetrachloro-m-xylene	102%		30-150%
2051-24-3	Decachlorobiphenyl	99%		30-150%
2051-24-3	Decachlorobiphenyl	103%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659781.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	81.0	26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.1	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	62.6	5.3	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.42	0.42	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	11.3	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	19.3	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.042	0.042	mg/kg	1	01/23/14	01/23/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 1.1	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.53	0.53	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16681
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22414
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SED-2		
Lab Sample ID:	MC27780-2A	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	64.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62911.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.99 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	16	ug/kg	
107-13-1	Acrylonitrile	ND	40	ug/kg	
71-43-2	Benzene	ND	0.80	ug/kg	
108-86-1	Bromobenzene	ND	8.0	ug/kg	
75-27-4	Bromodichloromethane	ND	3.2	ug/kg	
75-25-2	Bromoform	ND	3.2	ug/kg	
74-83-9	Bromomethane	ND	3.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	ug/kg	
104-51-8	n-Butylbenzene	ND	8.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	8.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	8.0	ug/kg	
75-15-0	Carbon disulfide	ND	8.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.2	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	ug/kg	
75-00-3	Chloroethane	ND	8.0	ug/kg	
67-66-3	Chloroform	ND	3.2	ug/kg	
74-87-3	Chloromethane	ND	8.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	8.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	8.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	ug/kg	
124-48-1	Dibromochloromethane	ND	3.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	8.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	8.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	8.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	ug/kg	
100-41-4	Ethylbenzene	ND	3.2	ug/kg	
76-13-1	Freon 113	ND	8.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	8.0	ug/kg	
591-78-6	2-Hexanone	ND	16	ug/kg	
98-82-8	Isopropylbenzene	ND	8.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	8.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	8.0	ug/kg	
74-95-3	Methylene bromide	ND	8.0	ug/kg	
75-09-2	Methylene chloride	ND	3.2	ug/kg	
91-20-3	Naphthalene	ND	8.0	ug/kg	
103-65-1	n-Propylbenzene	ND	8.0	ug/kg	
100-42-5	Styrene	ND	8.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	8.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	ug/kg	
127-18-4	Tetrachloroethene	ND	3.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	16	ug/kg	
108-88-3	Toluene	ND	8.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	8.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	8.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.2	ug/kg	
79-01-6	Trichloroethene	ND	3.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	8.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	8.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	8.0	ug/kg	
75-01-4	Vinyl chloride	ND	3.2	ug/kg	
	m,p-Xylene	ND	3.2	ug/kg	
95-47-6	o-Xylene	ND	3.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71365.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1900	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3900	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3900	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	7700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3900	ug/kg	
95-48-7	2-Methylphenol	ND	3900	ug/kg	
106-44-5	4-Methylphenol	ND	3900	ug/kg	
88-75-5	2-Nitrophenol	ND	3900	ug/kg	
100-02-7	4-Nitrophenol	ND	7700	ug/kg	
87-86-5	Pentachlorophenol	ND	3900	ug/kg	
108-95-2	Phenol	ND	1900	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3900	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3900	ug/kg	
83-32-9	Acenaphthene	ND	770	ug/kg	
208-96-8	Acenaphthylene	3940	770	ug/kg	
62-53-3	Aniline	ND	3900	ug/kg	
120-12-7	Anthracene	3380	770	ug/kg	
56-55-3	Benzo(a)anthracene	12500	770	ug/kg	
50-32-8	Benzo(a)pyrene	13800	770	ug/kg	
205-99-2	Benzo(b)fluoranthene	12600	770	ug/kg	
191-24-2	Benzo(g,h,i)perylene	10200	770	ug/kg	
207-08-9	Benzo(k)fluoranthene	11200	770	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1900	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1900	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1900	ug/kg	
106-47-8	4-Chloroaniline	ND	3900	ug/kg	
86-74-8	Carbazole	1340	770	ug/kg	
218-01-9	Chrysene	14300	770	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1900	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1900	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1900	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1900	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3900	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3900	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1900	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2700	770	ug/kg	
132-64-9	Dibenzofuran	ND	770	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1900	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1900	ug/kg	
84-66-2	Diethyl phthalate	ND	1900	ug/kg	
131-11-3	Dimethyl phthalate	ND	1900	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1900	ug/kg	
206-44-0	Fluoranthene	26500	770	ug/kg	
86-73-7	Fluorene	ND	770	ug/kg	
118-74-1	Hexachlorobenzene	ND	1900	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1900	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3900	ug/kg	
67-72-1	Hexachloroethane	ND	1900	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	9120	770	ug/kg	
78-59-1	Isophorone	ND	1900	ug/kg	
91-57-6	2-Methylnaphthalene	ND	770	ug/kg	
88-74-4	2-Nitroaniline	ND	3900	ug/kg	
99-09-2	3-Nitroaniline	ND	3900	ug/kg	
100-01-6	4-Nitroaniline	ND	3900	ug/kg	
91-20-3	Naphthalene	ND	770	ug/kg	
98-95-3	Nitrobenzene	ND	1900	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1900	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1900	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	3900	ug/kg	
85-01-8	Phenanthrene	10900	770	ug/kg	
129-00-0	Pyrene	24900	770	ug/kg	
110-86-1	Pyridine	ND	3900	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	3900	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		30-130%
4165-62-2	Phenol-d5	57%		30-130%
118-79-6	2,4,6-Tribromophenol	77%		30-130%
4165-60-0	Nitrobenzene-d5	50%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40264.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	78	ug/kg	
309-00-2	Aldrin	ND	7.8	ug/kg	
319-84-6	alpha-BHC	ND	7.8	ug/kg	
319-85-7	beta-BHC	ND	7.8	ug/kg	
319-86-8	delta-BHC	ND	7.8	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	7.8	ug/kg	
12789-03-6	Chlordane	ND	78	ug/kg	
60-57-1	Dieldrin	ND	7.8	ug/kg	
72-54-8	4,4'-DDD	49.6	7.8	ug/kg	
72-55-9	4,4'-DDE	ND	7.8	ug/kg	
50-29-3	4,4'-DDT [a]	13.7	7.8	ug/kg	
72-20-8	Endrin	ND	7.8	ug/kg	
1031-07-8	Endosulfan sulfate	ND	7.8	ug/kg	
7421-93-4	Endrin aldehyde	ND	7.8	ug/kg	
959-98-8	Endosulfan-I	ND	7.8	ug/kg	
33213-65-9	Endosulfan-II	ND	7.8	ug/kg	
76-44-8	Heptachlor	ND	7.8	ug/kg	
1024-57-3	Heptachlor epoxide	ND	7.8	ug/kg	
72-43-5	Methoxychlor	ND	7.8	ug/kg	
53494-70-5	Endrin ketone	ND	7.8	ug/kg	
8001-35-2	Toxaphene	ND	78	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	44%		30-150%
877-09-8	Tetrachloro-m-xylene	31%		30-150%
2051-24-3	Decachlorobiphenyl	86%		30-150%
2051-24-3	Decachlorobiphenyl	152% [b]		30-150%

(a) Confirmation value > 40% RPD.
(b) Outside control limits due to possible matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34257.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	39	ug/kg	
11104-28-2	Aroclor 1221	ND	39	ug/kg	
11141-16-5	Aroclor 1232	ND	39	ug/kg	
53469-21-9	Aroclor 1242	ND	39	ug/kg	
12672-29-6	Aroclor 1248	ND	39	ug/kg	
11097-69-1	Aroclor 1254	ND	39	ug/kg	
11096-82-5	Aroclor 1260	ND	39	ug/kg	
37324-23-5	Aroclor 1262	ND	39	ug/kg	
11100-14-4	Aroclor 1268	ND	39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	83%		30-150%
2051-24-3	Decachlorobiphenyl	82%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31064.D	5	01/27/14	KN	01/21/14	OP36614	GBI1129
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	1140	130	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.3	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	73.4	5.3	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.60	0.42	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	29.3	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	189	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.062	0.043	mg/kg	1	01/23/14	01/23/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 1.1	1.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.53	0.53	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16681
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22414
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SED-3		
Lab Sample ID:	MC27780-3A	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	62.8
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.028		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62912.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.77 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	17	ug/kg	
107-13-1	Acrylonitrile	ND	44	ug/kg	
71-43-2	Benzene	ND	0.87	ug/kg	
108-86-1	Bromobenzene	ND	8.7	ug/kg	
75-27-4	Bromodichloromethane	ND	3.5	ug/kg	
75-25-2	Bromoform	ND	3.5	ug/kg	
74-83-9	Bromomethane	ND	3.5	ug/kg	
78-93-3	2-Butanone (MEK)	ND	17	ug/kg	
104-51-8	n-Butylbenzene	ND	8.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	8.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	8.7	ug/kg	
75-15-0	Carbon disulfide	ND	8.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.5	ug/kg	
108-90-7	Chlorobenzene	ND	3.5	ug/kg	
75-00-3	Chloroethane	ND	8.7	ug/kg	
67-66-3	Chloroform	ND	3.5	ug/kg	
74-87-3	Chloromethane	ND	8.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	8.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	8.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.7	ug/kg	
124-48-1	Dibromochloromethane	ND	3.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.5	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.5	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.5	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.5	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.5	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.5	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	8.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	8.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	8.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.5	ug/kg	
100-41-4	Ethylbenzene	ND	3.5	ug/kg	
76-13-1	Freon 113	ND	8.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	8.7	ug/kg	
591-78-6	2-Hexanone	ND	17	ug/kg	
98-82-8	Isopropylbenzene	ND	8.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	8.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	8.7	ug/kg	
74-95-3	Methylene bromide	ND	8.7	ug/kg	
75-09-2	Methylene chloride	ND	3.5	ug/kg	
91-20-3	Naphthalene	ND	8.7	ug/kg	
103-65-1	n-Propylbenzene	ND	8.7	ug/kg	
100-42-5	Styrene	ND	8.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	8.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.5	ug/kg	
127-18-4	Tetrachloroethene	ND	3.5	ug/kg	
109-99-9	Tetrahydrofuran	ND	17	ug/kg	
108-88-3	Toluene	ND	8.7	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	8.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	8.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.5	ug/kg	
79-01-6	Trichloroethene	ND	3.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	8.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	8.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	8.7	ug/kg	
75-01-4	Vinyl chloride	ND	3.5	ug/kg	
	m,p-Xylene	ND	3.5	ug/kg	
95-47-6	o-Xylene	ND	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17435.D	1	01/29/14	KR	01/28/14	OP36688	MSW766
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	410	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	830	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	830	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	830	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	830	ug/kg	
95-48-7	2-Methylphenol	ND	830	ug/kg	
106-44-5	4-Methylphenol	ND	830	ug/kg	
88-75-5	2-Nitrophenol	ND	830	ug/kg	
100-02-7	4-Nitrophenol	ND	1700	ug/kg	
87-86-5	Pentachlorophenol	ND	830	ug/kg	
108-95-2	Phenol	ND	410	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	830	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	830	ug/kg	
83-32-9	Acenaphthene	ND	170	ug/kg	
208-96-8	Acenaphthylene	210	170	ug/kg	
62-53-3	Aniline	ND	830	ug/kg	
120-12-7	Anthracene	ND	170	ug/kg	
56-55-3	Benzo(a)anthracene	575	170	ug/kg	
50-32-8	Benzo(a)pyrene	756	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	774	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	582	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	704	170	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	410	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	410	ug/kg	
91-58-7	2-Chloronaphthalene	ND	410	ug/kg	
106-47-8	4-Chloroaniline	ND	830	ug/kg	
86-74-8	Carbazole	ND	170	ug/kg	
218-01-9	Chrysene	912	170	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	410	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	410	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	410	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	410	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	830	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	830	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	410	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	179	170	ug/kg	
132-64-9	Dibenzofuran	ND	170	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	410	ug/kg	
84-66-2	Diethyl phthalate	ND	410	ug/kg	
131-11-3	Dimethyl phthalate	ND	410	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	ug/kg	
206-44-0	Fluoranthene	1350	170	ug/kg	
86-73-7	Fluorene	ND	170	ug/kg	
118-74-1	Hexachlorobenzene	ND	410	ug/kg	
87-68-3	Hexachlorobutadiene	ND	410	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	830	ug/kg	
67-72-1	Hexachloroethane	ND	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	516	170	ug/kg	
78-59-1	Isophorone	ND	410	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	ug/kg	
88-74-4	2-Nitroaniline	ND	830	ug/kg	
99-09-2	3-Nitroaniline	ND	830	ug/kg	
100-01-6	4-Nitroaniline	ND	830	ug/kg	
91-20-3	Naphthalene	ND	170	ug/kg	
98-95-3	Nitrobenzene	ND	410	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	410	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	410	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	830	ug/kg	
85-01-8	Phenanthrene	630	170	ug/kg	
129-00-0	Pyrene	1400	170	ug/kg	
110-86-1	Pyridine	ND	830	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	830	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	410	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	78%		30-130%
4165-62-2	Phenol-d5	75%		30-130%
118-79-6	2,4,6-Tribromophenol	101%		30-130%
4165-60-0	Nitrobenzene-d5	71%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	81%		30-130%
1718-51-0	Terphenyl-d14	96%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40265.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	82	ug/kg	
309-00-2	Aldrin	ND	8.2	ug/kg	
319-84-6	alpha-BHC	ND	8.2	ug/kg	
319-85-7	beta-BHC	ND	8.2	ug/kg	
319-86-8	delta-BHC	ND	8.2	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	8.2	ug/kg	
12789-03-6	Chlordane	ND	82	ug/kg	
60-57-1	Dieldrin	ND	8.2	ug/kg	
72-54-8	4,4'-DDD	ND	8.2	ug/kg	
72-55-9	4,4'-DDE	ND	8.2	ug/kg	
50-29-3	4,4'-DDT	ND	8.2	ug/kg	
72-20-8	Endrin	ND	8.2	ug/kg	
1031-07-8	Endosulfan sulfate	ND	8.2	ug/kg	
7421-93-4	Endrin aldehyde	ND	8.2	ug/kg	
959-98-8	Endosulfan-I	ND	8.2	ug/kg	
33213-65-9	Endosulfan-II	ND	8.2	ug/kg	
76-44-8	Heptachlor	ND	8.2	ug/kg	
1024-57-3	Heptachlor epoxide	ND	8.2	ug/kg	
72-43-5	Methoxychlor	ND	8.2	ug/kg	
53494-70-5	Endrin ketone	ND	8.2	ug/kg	
8001-35-2	Toxaphene	ND	82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	51%		30-150%
877-09-8	Tetrachloro-m-xylene	53%		30-150%
2051-24-3	Decachlorobiphenyl	55%		30-150%
2051-24-3	Decachlorobiphenyl	40%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34258.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	41	ug/kg	
11104-28-2	Aroclor 1221	ND	41	ug/kg	
11141-16-5	Aroclor 1232	ND	41	ug/kg	
53469-21-9	Aroclor 1242	ND	41	ug/kg	
12672-29-6	Aroclor 1248	ND	41	ug/kg	
11097-69-1	Aroclor 1254	ND	41	ug/kg	
11096-82-5	Aroclor 1260	ND	41	ug/kg	
37324-23-5	Aroclor 1262	ND	41	ug/kg	
11100-14-4	Aroclor 1268	ND	41	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		30-150%
877-09-8	Tetrachloro-m-xylene	96%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%
2051-24-3	Decachlorobiphenyl	100%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659783.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	163	28	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.2	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	110	5.1	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.44	0.40	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	18.8	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	38.6	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.083	0.046	mg/kg	1	01/23/14	01/23/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 1.0	1.0	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.51	0.51	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16681
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22414
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SED-4		
Lab Sample ID:	MC27780-4A	**Date Sampled:**	01/20/14
Matrix:	SO - Sediment	**Date Received:**	01/20/14
		Percent Solids:	59.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62913.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	5.19 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	49.9	11	ug/kg	
107-13-1	Acrylonitrile	ND	27	ug/kg	
71-43-2	Benzene	ND	0.54	ug/kg	
108-86-1	Bromobenzene	ND	5.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
74-83-9	Bromomethane	ND	2.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
74-87-3	Chloromethane	ND	5.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
76-13-1	Freon 113	ND	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.4	ug/kg	
74-95-3	Methylene bromide	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	ug/kg	
100-42-5	Styrene	ND	5.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.4	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
79-01-6	Trichloroethene	ND	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	ug/kg	
	m,p-Xylene	ND	2.2	ug/kg	
95-47-6	o-Xylene	ND	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71367.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	2700	ug/kg	
106-44-5	4-Methylphenol	ND	2700	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	ug/kg	
100-02-7	4-Nitrophenol	ND	5500	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	ug/kg	
83-32-9	Acenaphthene	ND	550	ug/kg	
208-96-8	Acenaphthylene	ND	550	ug/kg	
62-53-3	Aniline	ND	2700	ug/kg	
120-12-7	Anthracene	ND	550	ug/kg	
56-55-3	Benzo(a)anthracene	722	550	ug/kg	
50-32-8	Benzo(a)pyrene	831	550	ug/kg	
205-99-2	Benzo(b)fluoranthene	822	550	ug/kg	
191-24-2	Benzo(g,h,i)perylene	724	550	ug/kg	
207-08-9	Benzo(k)fluoranthene	802	550	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	ug/kg	
86-74-8	Carbazole	ND	550	ug/kg	
218-01-9	Chrysene	820	550	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	550	ug/kg	
132-64-9	Dibenzofuran	ND	550	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	1220	550	ug/kg	
86-73-7	Fluorene	ND	550	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	644	550	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	550	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	ug/kg	
91-20-3	Naphthalene	ND	550	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2700	ug/kg	
85-01-8	Phenanthrene	ND	550	ug/kg	
129-00-0	Pyrene	1130	550	ug/kg	
110-86-1	Pyridine	ND	2700	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-130%
4165-62-2	Phenol-d5	63%		30-130%
118-79-6	2,4,6-Tribromophenol	80%		30-130%
4165-60-0	Nitrobenzene-d5	55%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40266.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	55	ug/kg	
309-00-2	Aldrin	ND	5.5	ug/kg	
319-84-6	alpha-BHC	ND	5.5	ug/kg	
319-85-7	beta-BHC	ND	5.5	ug/kg	
319-86-8	delta-BHC	ND	5.5	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.5	ug/kg	
12789-03-6	Chlordane	ND	55	ug/kg	
60-57-1	Dieldrin	ND	5.5	ug/kg	
72-54-8	4,4'-DDD	ND	5.5	ug/kg	
72-55-9	4,4'-DDE	24.0	5.5	ug/kg	
50-29-3	4,4'-DDT	22.2	5.5	ug/kg	
72-20-8	Endrin	ND	5.5	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.5	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.5	ug/kg	
959-98-8	Endosulfan-I	ND	5.5	ug/kg	
33213-65-9	Endosulfan-II	ND	5.5	ug/kg	
76-44-8	Heptachlor	ND	5.5	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.5	ug/kg	
72-43-5	Methoxychlor	ND	5.5	ug/kg	
53494-70-5	Endrin ketone	ND	5.5	ug/kg	
8001-35-2	Toxaphene	ND	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		30-150%
877-09-8	Tetrachloro-m-xylene	55%		30-150%
2051-24-3	Decachlorobiphenyl	74%		30-150%
2051-24-3	Decachlorobiphenyl	55%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34259.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	27	ug/kg	
11104-28-2	Aroclor 1221	ND	27	ug/kg	
11141-16-5	Aroclor 1232	ND	27	ug/kg	
53469-21-9	Aroclor 1242	ND	27	ug/kg	
12672-29-6	Aroclor 1248	ND	27	ug/kg	
11097-69-1	Aroclor 1254	ND	27	ug/kg	
11096-82-5	Aroclor 1260	ND	27	ug/kg	
37324-23-5	Aroclor 1262	ND	27	ug/kg	
11100-14-4	Aroclor 1268	ND	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		30-150%
877-09-8	Tetrachloro-m-xylene	87%		30-150%
2051-24-3	Decachlorobiphenyl	86%		30-150%
2051-24-3	Decachlorobiphenyl	92%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31061.D	1	01/27/14	KN	01/21/14	OP36614	GBI1130
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	91.3	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.7	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	45.3	4.6	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.36	0.36	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	16.7	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	32.4	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.036	0.036	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.91	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-1 1'-3'		
Lab Sample ID:	MC27780-5A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62914.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	5.06 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	38.6	11	ug/kg	
107-13-1	Acrylonitrile	ND	28	ug/kg	
71-43-2	Benzene	ND	0.56	ug/kg	
108-86-1	Bromobenzene	ND	5.6	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
74-83-9	Bromomethane	ND	2.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
74-87-3	Chloromethane	ND	5.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.6	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.6	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.6	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
76-13-1	Freon 113	ND	5.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.6	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.6	ug/kg	
74-95-3	Methylene bromide	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.6	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	ug/kg	
100-42-5	Styrene	ND	5.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.6	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
79-01-6	Trichloroethene	ND	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	ug/kg	
	m,p-Xylene	ND	2.2	ug/kg	
95-47-6	o-Xylene	ND	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71368.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	ug/kg	
95-48-7	2-Methylphenol	ND	2800	ug/kg	
106-44-5	4-Methylphenol	ND	2800	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	ug/kg	
100-02-7	4-Nitrophenol	ND	5500	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	ug/kg	
83-32-9	Acenaphthene	ND	550	ug/kg	
208-96-8	Acenaphthylene	ND	550	ug/kg	
62-53-3	Aniline	ND	2800	ug/kg	
120-12-7	Anthracene	ND	550	ug/kg	
56-55-3	Benzo(a)anthracene	1190	550	ug/kg	
50-32-8	Benzo(a)pyrene	1260	550	ug/kg	
205-99-2	Benzo(b)fluoranthene	1280	550	ug/kg	
191-24-2	Benzo(g,h,i)perylene	961	550	ug/kg	
207-08-9	Benzo(k)fluoranthene	1070	550	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	ug/kg	
86-74-8	Carbazole	ND	550	ug/kg	
218-01-9	Chrysene	1380	550	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	550	ug/kg	
132-64-9	Dibenzofuran	ND	550	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	2200	550	ug/kg	
86-73-7	Fluorene	ND	550	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	811	550	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	550	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	ug/kg	
91-20-3	Naphthalene	ND	550	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2800	ug/kg	
85-01-8	Phenanthrene	941	550	ug/kg	
129-00-0	Pyrene	2200	550	ug/kg	
110-86-1	Pyridine	ND	2800	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2800	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		30-130%
4165-62-2	Phenol-d5	62%		30-130%
118-79-6	2,4,6-Tribromophenol	80%		30-130%
4165-60-0	Nitrobenzene-d5	53%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659779.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	102	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.5	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	42.2	4.6	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.36	0.36	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	12.8	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	11.4	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.16	0.036	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.91	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-2 1'-3'		
Lab Sample ID:	MC27780-6A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62915.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.70 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	98.1	12	ug/kg	
107-13-1	Acrylonitrile	ND	31	ug/kg	
71-43-2	Benzene	ND	0.62	ug/kg	
108-86-1	Bromobenzene	ND	6.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	ug/kg	
75-25-2	Bromoform	ND	2.5	ug/kg	
74-83-9	Bromomethane	ND	2.5	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	ug/kg	
104-51-8	n-Butylbenzene	ND	6.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.2	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	ug/kg	
75-00-3	Chloroethane	ND	6.2	ug/kg	
67-66-3	Chloroform	ND	2.5	ug/kg	
74-87-3	Chloromethane	ND	6.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.5	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.5	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.5	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	6.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	ug/kg	
100-41-4	Ethylbenzene	ND	2.5	ug/kg	
76-13-1	Freon 113	ND	6.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.2	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.2	ug/kg	
74-95-3	Methylene bromide	ND	6.2	ug/kg	
75-09-2	Methylene chloride	ND	2.5	ug/kg	
91-20-3	Naphthalene	ND	6.2	ug/kg	
103-65-1	n-Propylbenzene	ND	6.2	ug/kg	
100-42-5	Styrene	ND	6.2	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	ug/kg	
108-88-3	Toluene	ND	6.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	6.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	ug/kg	
79-01-6	Trichloroethene	ND	2.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.2	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	ug/kg	
	m,p-Xylene	ND	2.5	ug/kg	
95-47-6	o-Xylene	ND	2.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71369.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	280	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	ug/kg	
95-48-7	2-Methylphenol	ND	560	ug/kg	
106-44-5	4-Methylphenol	ND	560	ug/kg	
88-75-5	2-Nitrophenol	ND	560	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	ug/kg	
108-95-2	Phenol	ND	280	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	ug/kg	
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	192	110	ug/kg	
62-53-3	Aniline	ND	560	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo(a)anthracene	501	110	ug/kg	
50-32-8	Benzo(a)pyrene	576	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	531	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	432	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	560	110	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	ug/kg	
106-47-8	4-Chloroaniline	ND	560	ug/kg	
86-74-8	Carbazole	ND	110	ug/kg	
218-01-9	Chrysene	636	110	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	115	110	ug/kg	
132-64-9	Dibenzofuran	ND	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	ug/kg	
84-66-2	Diethyl phthalate	ND	280	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	ug/kg	
206-44-0	Fluoranthene	1060	110	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	ug/kg	
67-72-1	Hexachloroethane	ND	280	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	366	110	ug/kg	
78-59-1	Isophorone	ND	280	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
88-74-4	2-Nitroaniline	ND	560	ug/kg	
99-09-2	3-Nitroaniline	ND	560	ug/kg	
100-01-6	4-Nitroaniline	ND	560	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
98-95-3	Nitrobenzene	ND	280	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	560	ug/kg	
85-01-8	Phenanthrene	556	110	ug/kg	
129-00-0	Pyrene	1050	110	ug/kg	
110-86-1	Pyridine	ND	560	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	560	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	82%		30-130%
4165-62-2	Phenol-d5	78%		30-130%
118-79-6	2,4,6-Tribromophenol	98%		30-130%
4165-60-0	Nitrobenzene-d5	65%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	96%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659777.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	53.4	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.3	0.95	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	60.3	4.8	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.38	0.38	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	18.7	0.95	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	11.2	0.95	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.036	0.036	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.95	0.95	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.48	0.48	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-3 1'-3'		
Lab Sample ID:	MC27780-7A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	85.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62916.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.73 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	12	ug/kg	
107-13-1	Acrylonitrile	ND	30	ug/kg	
71-43-2	Benzene	ND	0.60	ug/kg	
108-86-1	Bromobenzene	ND	6.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
74-83-9	Bromomethane	ND	2.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	ug/kg	
104-51-8	n-Butylbenzene	ND	6.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.0	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
74-87-3	Chloromethane	ND	6.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.4	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.4	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	6.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
76-13-1	Freon 113	ND	6.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.0	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.0	ug/kg	
74-95-3	Methylene bromide	ND	6.0	ug/kg	
75-09-2	Methylene chloride	ND	2.4	ug/kg	
91-20-3	Naphthalene	ND	6.0	ug/kg	
103-65-1	n-Propylbenzene	ND	6.0	ug/kg	
100-42-5	Styrene	ND	6.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	ug/kg	
108-88-3	Toluene	ND	6.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	6.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
79-01-6	Trichloroethene	ND	2.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	ug/kg	
	m,p-Xylene	ND	2.4	ug/kg	
95-47-6	o-Xylene	ND	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71370.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	280	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	ug/kg	
95-48-7	2-Methylphenol	ND	560	ug/kg	
106-44-5	4-Methylphenol	ND	560	ug/kg	
88-75-5	2-Nitrophenol	ND	560	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	ug/kg	
108-95-2	Phenol	ND	280	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	ug/kg	
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
62-53-3	Aniline	ND	560	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo(a)anthracene	163	110	ug/kg	
50-32-8	Benzo(a)pyrene	157	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	157	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	114	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	143	110	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	ug/kg	
106-47-8	4-Chloroaniline	ND	560	ug/kg	
86-74-8	Carbazole	ND	110	ug/kg	
218-01-9	Chrysene	180	110	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	ug/kg	
132-64-9	Dibenzofuran	ND	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	ug/kg	
84-66-2	Diethyl phthalate	ND	280	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	ug/kg	
206-44-0	Fluoranthene	340	110	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	ug/kg	
67-72-1	Hexachloroethane	ND	280	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	ug/kg	
78-59-1	Isophorone	ND	280	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
88-74-4	2-Nitroaniline	ND	560	ug/kg	
99-09-2	3-Nitroaniline	ND	560	ug/kg	
100-01-6	4-Nitroaniline	ND	560	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
98-95-3	Nitrobenzene	ND	280	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	560	ug/kg	
85-01-8	Phenanthrene	203	110	ug/kg	
129-00-0	Pyrene	328	110	ug/kg	
110-86-1	Pyridine	ND	560	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	560	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		30-130%
4165-62-2	Phenol-d5	81%		30-130%
118-79-6	2,4,6-Tribromophenol	103%		30-130%
4165-60-0	Nitrobenzene-d5	75%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	87%		30-130%
1718-51-0	Terphenyl-d14	101%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40267.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	56	ug/kg	
309-00-2	Aldrin	ND	5.6	ug/kg	
319-84-6	alpha-BHC	ND	5.6	ug/kg	
319-85-7	beta-BHC	ND	5.6	ug/kg	
319-86-8	delta-BHC	ND	5.6	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.6	ug/kg	
12789-03-6	Chlordane	ND	56	ug/kg	
60-57-1	Dieldrin	ND	5.6	ug/kg	
72-54-8	4,4'-DDD	ND	5.6	ug/kg	
72-55-9	4,4'-DDE	ND	5.6	ug/kg	
50-29-3	4,4'-DDT	ND	5.6	ug/kg	
72-20-8	Endrin	ND	5.6	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.6	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.6	ug/kg	
959-98-8	Endosulfan-I	ND	5.6	ug/kg	
33213-65-9	Endosulfan-II	ND	5.6	ug/kg	
76-44-8	Heptachlor	ND	5.6	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.6	ug/kg	
72-43-5	Methoxychlor	ND	5.6	ug/kg	
53494-70-5	Endrin ketone	ND	5.6	ug/kg	
8001-35-2	Toxaphene	ND	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		30-150%
877-09-8	Tetrachloro-m-xylene	58%		30-150%
2051-24-3	Decachlorobiphenyl	69%		30-150%
2051-24-3	Decachlorobiphenyl	52%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34260.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	28	ug/kg	
11104-28-2	Aroclor 1221	ND	28	ug/kg	
11141-16-5	Aroclor 1232	ND	28	ug/kg	
53469-21-9	Aroclor 1242	ND	28	ug/kg	
12672-29-6	Aroclor 1248	ND	28	ug/kg	
11097-69-1	Aroclor 1254	ND	28	ug/kg	
11096-82-5	Aroclor 1260	ND	28	ug/kg	
37324-23-5	Aroclor 1262	ND	28	ug/kg	
11100-14-4	Aroclor 1268	ND	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		30-150%
877-09-8	Tetrachloro-m-xylene	92%		30-150%
2051-24-3	Decachlorobiphenyl	91%		30-150%
2051-24-3	Decachlorobiphenyl	99%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659773.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	28.6	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.2	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	42.5	4.6	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.37	0.37	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	18.8	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	9.0	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.037	0.037	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.93	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-4 1'-3'		
Lab Sample ID:	MC27780-8A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62917.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	5.39 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	131	11	ug/kg	
107-13-1	Acrylonitrile	ND	26	ug/kg	
71-43-2	Benzene	ND	0.53	ug/kg	
108-86-1	Bromobenzene	ND	5.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	ug/kg	
75-25-2	Bromoform	ND	2.1	ug/kg	
74-83-9	Bromomethane	ND	2.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	ug/kg	
67-66-3	Chloroform	ND	2.1	ug/kg	
74-87-3	Chloromethane	ND	5.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	ug/kg	
76-13-1	Freon 113	ND	5.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.3	ug/kg	
74-95-3	Methylene bromide	ND	5.3	ug/kg	
75-09-2	Methylene chloride	ND	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.3	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	ug/kg	
100-42-5	Styrene	ND	5.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.3	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	ug/kg	
79-01-6	Trichloroethene	ND	2.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	ug/kg	
	m,p-Xylene	ND	2.1	ug/kg	
95-47-6	o-Xylene	ND	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71371.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	ug/kg	
95-48-7	2-Methylphenol	ND	2800	ug/kg	
106-44-5	4-Methylphenol	ND	2800	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	ug/kg	
100-02-7	4-Nitrophenol	ND	5600	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	ug/kg	
83-32-9	Acenaphthene	ND	560	ug/kg	
208-96-8	Acenaphthylene	1650	560	ug/kg	
62-53-3	Aniline	ND	2800	ug/kg	
120-12-7	Anthracene	1230	560	ug/kg	
56-55-3	Benzo(a)anthracene	6820	560	ug/kg	
50-32-8	Benzo(a)pyrene	7270	560	ug/kg	
205-99-2	Benzo(b)fluoranthene	6690	560	ug/kg	
191-24-2	Benzo(g,h,i)perylene	5470	560	ug/kg	
207-08-9	Benzo(k)fluoranthene	5980	560	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	ug/kg	
86-74-8	Carbazole	ND	560	ug/kg	
218-01-9	Chrysene	7270	560	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1590	560	ug/kg	
132-64-9	Dibenzofuran	ND	560	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	12100	560	ug/kg	
86-73-7	Fluorene	ND	560	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	4820	560	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	560	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	ug/kg	
91-20-3	Naphthalene	ND	560	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2800	ug/kg	
85-01-8	Phenanthrene	4870	560	ug/kg	
129-00-0	Pyrene	10900	560	ug/kg	
110-86-1	Pyridine	ND	2800	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2800	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	86%		30-130%
4165-60-0	Nitrobenzene-d5	57%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	96%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31062.D	5	01/27/14	KN	01/21/14	OP36614	GBI1129
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	280	94	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.9	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	48.7	4.6	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.37	0.37	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	13.7	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	18.8	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.040	0.037	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.93	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-5 1'-3'		
Lab Sample ID:	MC27780-9A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.012		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62918.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.36 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	13	ug/kg	
107-13-1	Acrylonitrile	ND	33	ug/kg	
71-43-2	Benzene	ND	0.66	ug/kg	
108-86-1	Bromobenzene	ND	6.6	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	ug/kg	
75-25-2	Bromoform	ND	2.6	ug/kg	
74-83-9	Bromomethane	ND	2.6	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	ug/kg	
104-51-8	n-Butylbenzene	ND	6.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.6	ug/kg	
75-15-0	Carbon disulfide	ND	6.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	ug/kg	
75-00-3	Chloroethane	ND	6.6	ug/kg	
67-66-3	Chloroform	ND	2.6	ug/kg	
74-87-3	Chloromethane	ND	6.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.6	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.6	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.6	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.6	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.6	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.6	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	6.6	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.6	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	ug/kg	
100-41-4	Ethylbenzene	ND	2.6	ug/kg	
76-13-1	Freon 113	ND	6.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.6	ug/kg	
591-78-6	2-Hexanone	ND	13	ug/kg	
98-82-8	Isopropylbenzene	ND	6.6	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.6	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.6	ug/kg	
74-95-3	Methylene bromide	ND	6.6	ug/kg	
75-09-2	Methylene chloride	ND	2.6	ug/kg	
91-20-3	Naphthalene	ND	6.6	ug/kg	
103-65-1	n-Propylbenzene	ND	6.6	ug/kg	
100-42-5	Styrene	ND	6.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	ug/kg	
109-99-9	Tetrahydrofuran	ND	13	ug/kg	
108-88-3	Toluene	ND	6.6	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	6.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	ug/kg	
79-01-6	Trichloroethene	ND	2.6	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.6	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.6	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	ug/kg	
	m,p-Xylene	ND	2.6	ug/kg	
95-47-6	o-Xylene	ND	2.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71372.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	ug/kg	
95-48-7	2-Methylphenol	ND	2800	ug/kg	
106-44-5	4-Methylphenol	ND	2800	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	ug/kg	
100-02-7	4-Nitrophenol	ND	5600	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	ug/kg	
83-32-9	Acenaphthene	ND	560	ug/kg	
208-96-8	Acenaphthylene	3520	560	ug/kg	
62-53-3	Aniline	ND	2800	ug/kg	
120-12-7	Anthracene	2820	560	ug/kg	
56-55-3	Benzo(a)anthracene	16200	560	ug/kg	
50-32-8	Benzo(a)pyrene	17700	560	ug/kg	
205-99-2	Benzo(b)fluoranthene	17100	560	ug/kg	
191-24-2	Benzo(g,h,i)perylene	13700	560	ug/kg	
207-08-9	Benzo(k)fluoranthene	13800	560	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	ug/kg	
86-74-8	Carbazole	688	560	ug/kg	
218-01-9	Chrysene	17500	560	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	4360	560	ug/kg	
132-64-9	Dibenzofuran	ND	560	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	27600	560	ug/kg	
86-73-7	Fluorene	ND	560	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	12200	560	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	560	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	ug/kg	
91-20-3	Naphthalene	ND	560	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2800	ug/kg	
85-01-8	Phenanthrene	10700	560	ug/kg	
129-00-0	Pyrene	28000	560	ug/kg	
110-86-1	Pyridine	ND	2800	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2800	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	82%		30-130%
4165-60-0	Nitrobenzene-d5	55%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	97%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31071.D	5	01/27/14	KN	01/21/14	OP36614	GBI1130
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	799	95	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.0	0.94	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	46.9	4.7	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.38	0.38	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	13.8	0.94	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	40.0	0.94	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.035	0.035	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.94	0.94	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.47	0.47	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-6 1'-3'		
Lab Sample ID:	MC27780-10A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.1
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.018		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62919.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	5.05 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	83.6	12	ug/kg	
107-13-1	Acrylonitrile	ND	29	ug/kg	
71-43-2	Benzene	ND	0.59	ug/kg	
108-86-1	Bromobenzene	ND	5.9	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	ug/kg	
104-51-8	n-Butylbenzene	ND	5.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.9	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.9	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
76-13-1	Freon 113	ND	5.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.9	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.9	ug/kg	
74-95-3	Methylene bromide	ND	5.9	ug/kg	
75-09-2	Methylene chloride	ND	2.3	ug/kg	
91-20-3	Naphthalene	ND	5.9	ug/kg	
103-65-1	n-Propylbenzene	ND	5.9	ug/kg	
100-42-5	Styrene	ND	5.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	ug/kg	
108-88-3	Toluene	ND	5.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
	m,p-Xylene	ND	2.3	ug/kg	
95-47-6	o-Xylene	ND	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71373.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	ug/kg	
95-48-7	2-Methylphenol	ND	2900	ug/kg	
106-44-5	4-Methylphenol	ND	2900	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	ug/kg	
100-02-7	4-Nitrophenol	ND	5700	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	ug/kg	
83-32-9	Acenaphthene	ND	570	ug/kg	
208-96-8	Acenaphthylene	1900	570	ug/kg	
62-53-3	Aniline	ND	2900	ug/kg	
120-12-7	Anthracene	1070	570	ug/kg	
56-55-3	Benzo(a)anthracene	4500	570	ug/kg	
50-32-8	Benzo(a)pyrene	4830	570	ug/kg	
205-99-2	Benzo(b)fluoranthene	4460	570	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3810	570	ug/kg	
207-08-9	Benzo(k)fluoranthene	4050	570	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	ug/kg	
86-74-8	Carbazole	ND	570	ug/kg	
218-01-9	Chrysene	5200	570	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1000	570	ug/kg	
132-64-9	Dibenzofuran	ND	570	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	9050	570	ug/kg	
86-73-7	Fluorene	ND	570	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3310	570	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	570	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	ug/kg	
91-20-3	Naphthalene	ND	570	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2900	ug/kg	
85-01-8	Phenanthrene	3830	570	ug/kg	
129-00-0	Pyrene	8300	570	ug/kg	
110-86-1	Pyridine	ND	2900	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2900	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		30-130%
4165-62-2	Phenol-d5	60%		30-130%
118-79-6	2,4,6-Tribromophenol	77%		30-130%
4165-60-0	Nitrobenzene-d5	47%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40268.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	59	ug/kg	
309-00-2	Aldrin	ND	5.9	ug/kg	
319-84-6	alpha-BHC	ND	5.9	ug/kg	
319-85-7	beta-BHC	ND	5.9	ug/kg	
319-86-8	delta-BHC	ND	5.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.9	ug/kg	
12789-03-6	Chlordane	ND	59	ug/kg	
60-57-1	Dieldrin	ND	5.9	ug/kg	
72-54-8	4,4'-DDD	ND	5.9	ug/kg	
72-55-9	4,4'-DDE	ND	5.9	ug/kg	
50-29-3	4,4'-DDT [a]	34.0	5.9	ug/kg	
72-20-8	Endrin	ND	5.9	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.9	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.9	ug/kg	
959-98-8	Endosulfan-I	ND	5.9	ug/kg	
33213-65-9	Endosulfan-II	ND	5.9	ug/kg	
76-44-8	Heptachlor	ND	5.9	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.9	ug/kg	
72-43-5	Methoxychlor	ND	5.9	ug/kg	
53494-70-5	Endrin ketone	ND	5.9	ug/kg	
8001-35-2	Toxaphene	ND	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	48%		30-150%
877-09-8	Tetrachloro-m-xylene	39%		30-150%
2051-24-3	Decachlorobiphenyl	91%		30-150%
2051-24-3	Decachlorobiphenyl	108%		30-150%

(a) Confirmation value > 40% RPD.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34261.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	29	ug/kg	
11104-28-2	Aroclor 1221	ND	29	ug/kg	
11141-16-5	Aroclor 1232	ND	29	ug/kg	
53469-21-9	Aroclor 1242	ND	29	ug/kg	
12672-29-6	Aroclor 1248	ND	29	ug/kg	
11097-69-1	Aroclor 1254	ND	29	ug/kg	
11096-82-5	Aroclor 1260	ND	29	ug/kg	
37324-23-5	Aroclor 1262	ND	29	ug/kg	
11100-14-4	Aroclor 1268	ND	29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		30-150%
877-09-8	Tetrachloro-m-xylene	75%		30-150%
2051-24-3	Decachlorobiphenyl	80%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31068.D	5	01/27/14	KN	01/21/14	OP36614	GBI1129
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	474	96	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	43.1	4.7	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.37	0.37	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	16.6	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	81.3	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.038	0.038	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.93	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.47	0.47	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-7 1'-3'		
Lab Sample ID:	MC27780-11A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	84.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.033		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62920.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.86 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	44.8	12	ug/kg	
107-13-1	Acrylonitrile	ND	29	ug/kg	
71-43-2	Benzene	ND	0.59	ug/kg	
108-86-1	Bromobenzene	ND	5.9	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	ug/kg	
104-51-8	n-Butylbenzene	ND	5.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.9	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.9	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
76-13-1	Freon 113	ND	5.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.9	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.9	ug/kg	
74-95-3	Methylene bromide	ND	5.9	ug/kg	
75-09-2	Methylene chloride	ND	2.3	ug/kg	
91-20-3	Naphthalene	ND	5.9	ug/kg	
103-65-1	n-Propylbenzene	ND	5.9	ug/kg	
100-42-5	Styrene	ND	5.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	ug/kg	
108-88-3	Toluene	ND	5.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
	m,p-Xylene	ND	2.3	ug/kg	
95-47-6	o-Xylene	ND	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71374.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	2700	ug/kg	
106-44-5	4-Methylphenol	ND	2700	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	ug/kg	
100-02-7	4-Nitrophenol	ND	5500	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	ug/kg	
83-32-9	Acenaphthene	ND	550	ug/kg	
208-96-8	Acenaphthylene	1570	550	ug/kg	
62-53-3	Aniline	ND	2700	ug/kg	
120-12-7	Anthracene	883	550	ug/kg	
56-55-3	Benzo(a)anthracene	3650	550	ug/kg	
50-32-8	Benzo(a)pyrene	3830	550	ug/kg	
205-99-2	Benzo(b)fluoranthene	3780	550	ug/kg	
191-24-2	Benzo(g,h,i)perylene	2940	550	ug/kg	
207-08-9	Benzo(k)fluoranthene	2840	550	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	ug/kg	
86-74-8	Carbazole	ND	550	ug/kg	
218-01-9	Chrysene	4130	550	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	794	550	ug/kg	
132-64-9	Dibenzofuran	ND	550	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	7130	550	ug/kg	
86-73-7	Fluorene	ND	550	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2570	550	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	550	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	ug/kg	
91-20-3	Naphthalene	ND	550	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2700	ug/kg	
85-01-8	Phenanthrene	3150	550	ug/kg	
129-00-0	Pyrene	6660	550	ug/kg	
110-86-1	Pyridine	ND	2700	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		30-130%
4165-62-2	Phenol-d5	61%		30-130%
118-79-6	2,4,6-Tribromophenol	77%		30-130%
4165-60-0	Nitrobenzene-d5	52%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31072.D	5	01/27/14	KN	01/21/14	OP36614	GBI1129
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	450	93	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.6	0.92	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	48.5	4.6	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.37	0.37	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	16.7	0.92	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	54.9	0.92	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.033	0.033	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.92	0.92	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-8 1'-3'		
Lab Sample ID:	MC27780-12A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.029		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62921.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.83 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	85.7	12	ug/kg	
107-13-1	Acrylonitrile	ND	30	ug/kg	
71-43-2	Benzene	ND	0.61	ug/kg	
108-86-1	Bromobenzene	ND	6.1	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
74-83-9	Bromomethane	ND	2.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	ug/kg	
104-51-8	n-Butylbenzene	ND	6.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.1	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
74-87-3	Chloromethane	ND	6.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.1	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.4	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.4	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	6.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
76-13-1	Freon 113	ND	6.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.1	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
98-82-8	Isopropylbenzene	ND	6.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.1	ug/kg	
74-95-3	Methylene bromide	ND	6.1	ug/kg	
75-09-2	Methylene chloride	ND	2.4	ug/kg	
91-20-3	Naphthalene	ND	6.1	ug/kg	
103-65-1	n-Propylbenzene	ND	6.1	ug/kg	
100-42-5	Styrene	ND	6.1	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	ug/kg	
108-88-3	Toluene	ND	6.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	6.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
79-01-6	Trichloroethene	ND	2.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.1	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	ug/kg	
	m,p-Xylene	ND	2.4	ug/kg	
95-47-6	o-Xylene	ND	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71375.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	ug/kg	
95-48-7	2-Methylphenol	ND	2900	ug/kg	
106-44-5	4-Methylphenol	ND	2900	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	ug/kg	
100-02-7	4-Nitrophenol	ND	5700	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	ug/kg	
83-32-9	Acenaphthene	ND	570	ug/kg	
208-96-8	Acenaphthylene	3690	570	ug/kg	
62-53-3	Aniline	ND	2900	ug/kg	
120-12-7	Anthracene	2230	570	ug/kg	
56-55-3	Benzo(a)anthracene	9000	570	ug/kg	
50-32-8	Benzo(a)pyrene	9760	570	ug/kg	
205-99-2	Benzo(b)fluoranthene	9700	570	ug/kg	
191-24-2	Benzo(g,h,i)perylene	7590	570	ug/kg	
207-08-9	Benzo(k)fluoranthene	6870	570	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	ug/kg	
86-74-8	Carbazole	706	570	ug/kg	
218-01-9	Chrysene	10400	570	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2040	570	ug/kg	
132-64-9	Dibenzofuran	ND	570	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	17200	570	ug/kg	
86-73-7	Fluorene	ND	570	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	6680	570	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	570	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	ug/kg	
91-20-3	Naphthalene	ND	570	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2900	ug/kg	
85-01-8	Phenanthrene	8310	570	ug/kg	
129-00-0	Pyrene	16500	570	ug/kg	
110-86-1	Pyridine	ND	2900	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2900	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	83%		30-130%
4165-60-0	Nitrobenzene-d5	57%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40269.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2 [a]	BE40288.D	1	01/28/14	NK	01/21/14	OP36623	GBE2079

	Initial Weight	Final Volume
Run #1	20.4 g	10.0 ml
Run #2	20.4 g	10.0 ml

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	58	ug/kg	
309-00-2	Aldrin	ND	5.8	ug/kg	
319-84-6	alpha-BHC	ND	5.8	ug/kg	
319-85-7	beta-BHC	ND	5.8	ug/kg	
319-86-8	delta-BHC	ND	5.8	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.8	ug/kg	
12789-03-6	Chlordane	ND	58	ug/kg	
60-57-1	Dieldrin	ND	5.8	ug/kg	
72-54-8	4,4'-DDD	ND	5.8	ug/kg	
72-55-9	4,4'-DDE [b]	10.4	5.8	ug/kg	
50-29-3	4,4'-DDT [b]	74.3	5.8	ug/kg	
72-20-8	Endrin	ND	5.8	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.8	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.8	ug/kg	
959-98-8	Endosulfan-I	ND	5.8	ug/kg	
33213-65-9	Endosulfan-II	ND	5.8	ug/kg	
76-44-8	Heptachlor	ND	5.8	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.8	ug/kg	
72-43-5	Methoxychlor	ND	5.8	ug/kg	
53494-70-5	Endrin ketone	ND	5.8	ug/kg	
8001-35-2	Toxaphene	ND	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	38%	42%	30-150%
877-09-8	Tetrachloro-m-xylene	25% [c]	27% [c]	30-150%
2051-24-3	Decachlorobiphenyl	117%	117%	30-150%
2051-24-3	Decachlorobiphenyl	247% [c]	167% [c]	30-150%

(a) Confirmation run.
(b) Confirmation value > 40% RPD.
(c) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34262.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	29	ug/kg	
11104-28-2	Aroclor 1221	ND	29	ug/kg	
11141-16-5	Aroclor 1232	ND	29	ug/kg	
53469-21-9	Aroclor 1242	ND	29	ug/kg	
12672-29-6	Aroclor 1248	ND	29	ug/kg	
11097-69-1	Aroclor 1254	ND	29	ug/kg	
11096-82-5	Aroclor 1260	42.4	29	ug/kg	
37324-23-5	Aroclor 1262	ND	29	ug/kg	
11100-14-4	Aroclor 1268	ND	29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		30-150%
877-09-8	Tetrachloro-m-xylene	64%		30-150%
2051-24-3	Decachlorobiphenyl	71%		30-150%
2051-24-3	Decachlorobiphenyl	71%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31066.D	5	01/27/14	KN	01/21/14	OP36614	GBI1129
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	1000	96	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.0	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	41.7	4.7	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.46	0.37	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	20.6	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	125	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.039	0.036	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.93	0.93	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.47	0.47	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-9 1'-3'		
Lab Sample ID:	MC27780-13A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	85.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.039		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62922.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.85 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	94.3	12	ug/kg	
107-13-1	Acrylonitrile	ND	29	ug/kg	
71-43-2	Benzene	ND	0.58	ug/kg	
108-86-1	Bromobenzene	ND	5.8	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	ug/kg	
104-51-8	n-Butylbenzene	ND	5.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.8	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.8	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.8	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.8	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
76-13-1	Freon 113	ND	5.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
98-82-8	Isopropylbenzene	ND	5.8	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.8	ug/kg	
74-95-3	Methylene bromide	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	2.3	ug/kg	
91-20-3	Naphthalene	ND	5.8	ug/kg	
103-65-1	n-Propylbenzene	ND	5.8	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.8	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
	m,p-Xylene	ND	2.3	ug/kg	
95-47-6	o-Xylene	ND	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71376.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	2700	ug/kg	
106-44-5	4-Methylphenol	ND	2700	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	ug/kg	
100-02-7	4-Nitrophenol	ND	5400	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	ug/kg	
83-32-9	Acenaphthene	ND	540	ug/kg	
208-96-8	Acenaphthylene	4890	540	ug/kg	
62-53-3	Aniline	ND	2700	ug/kg	
120-12-7	Anthracene	3120	540	ug/kg	
56-55-3	Benzo(a)anthracene	11500	540	ug/kg	
50-32-8	Benzo(a)pyrene	10800	540	ug/kg	
205-99-2	Benzo(b)fluoranthene	9990	540	ug/kg	
191-24-2	Benzo(g,h,i)perylene	7770	540	ug/kg	
207-08-9	Benzo(k)fluoranthene	8220	540	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	ug/kg	
86-74-8	Carbazole	685	540	ug/kg	
218-01-9	Chrysene	12300	540	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2300	540	ug/kg	
132-64-9	Dibenzofuran	ND	540	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	20000	540	ug/kg	
86-73-7	Fluorene	ND	540	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	7070	540	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	540	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	ug/kg	
91-20-3	Naphthalene	ND	540	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2700	ug/kg	
85-01-8	Phenanthrene	9510	540	ug/kg	
129-00-0	Pyrene	20300	540	ug/kg	
110-86-1	Pyridine	ND	2700	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		30-130%
4165-62-2	Phenol-d5	70%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	54%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	93%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31067.D	5	01/27/14	KN	01/21/14	OP36614	GBI1130
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	821	89	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.9	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	43.1	4.6	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.36	0.36	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	14.1	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	71.5	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.040	0.033	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.91	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-10 1'-3'		
Lab Sample ID:	MC27780-14A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	89.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.024		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62923.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.97 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	60.8	11	ug/kg	
107-13-1	Acrylonitrile	ND	29	ug/kg	
71-43-2	Benzene	ND	0.57	ug/kg	
108-86-1	Bromobenzene	ND	5.7	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
76-13-1	Freon 113	ND	5.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.7	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	ug/kg	
74-95-3	Methylene bromide	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	2.3	ug/kg	
91-20-3	Naphthalene	ND	5.7	ug/kg	
103-65-1	n-Propylbenzene	ND	5.7	ug/kg	
100-42-5	Styrene	ND	5.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.7	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.7	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
	m,p-Xylene	ND	2.3	ug/kg	
95-47-6	o-Xylene	ND	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71377.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	ug/kg	
95-48-7	2-Methylphenol	ND	2800	ug/kg	
106-44-5	4-Methylphenol	ND	2800	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	ug/kg	
100-02-7	4-Nitrophenol	ND	5600	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	ug/kg	
83-32-9	Acenaphthene	ND	560	ug/kg	
208-96-8	Acenaphthylene	5140	560	ug/kg	
62-53-3	Aniline	ND	2800	ug/kg	
120-12-7	Anthracene	3490	560	ug/kg	
56-55-3	Benzo(a)anthracene	12200	560	ug/kg	
50-32-8	Benzo(a)pyrene	11300	560	ug/kg	
205-99-2	Benzo(b)fluoranthene	10600	560	ug/kg	
191-24-2	Benzo(g,h,i)perylene	7850	560	ug/kg	
207-08-9	Benzo(k)fluoranthene	8440	560	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	ug/kg	
86-74-8	Carbazole	727	560	ug/kg	
218-01-9	Chrysene	12800	560	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2350	560	ug/kg	
132-64-9	Dibenzofuran	ND	560	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	21800	560	ug/kg	
86-73-7	Fluorene	ND	560	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	7190	560	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	560	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	ug/kg	
91-20-3	Naphthalene	ND	560	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2800	ug/kg	
85-01-8	Phenanthrene	10600	560	ug/kg	
129-00-0	Pyrene	22200	560	ug/kg	
110-86-1	Pyridine	ND	2800	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2800	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		30-130%
4165-62-2	Phenol-d5	76%		30-130%
118-79-6	2,4,6-Tribromophenol	97%		30-130%
4165-60-0	Nitrobenzene-d5	62%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	82%		30-130%
1718-51-0	Terphenyl-d14	102%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40272.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2 [a]	BE40291.D	1	01/28/14	NK	01/21/14	OP36623	GBE2079

	Initial Weight	Final Volume
Run #1	20.2 g	10.0 ml
Run #2	20.2 g	10.0 ml

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	56	ug/kg	
309-00-2	Aldrin	ND	5.6	ug/kg	
319-84-6	alpha-BHC	ND	5.6	ug/kg	
319-85-7	beta-BHC	ND	5.6	ug/kg	
319-86-8	delta-BHC	ND	5.6	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.6	ug/kg	
12789-03-6	Chlordane	ND	56	ug/kg	
60-57-1	Dieldrin	ND	5.6	ug/kg	
72-54-8	4,4'-DDD	ND	5.6	ug/kg	
72-55-9	4,4'-DDE [b]	7.7	5.6	ug/kg	
50-29-3	4,4'-DDT [b]	29.4	5.6	ug/kg	
72-20-8	Endrin	ND	5.6	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.6	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.6	ug/kg	
959-98-8	Endosulfan-I	ND	5.6	ug/kg	
33213-65-9	Endosulfan-II	ND	5.6	ug/kg	
76-44-8	Heptachlor	ND	5.6	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.6	ug/kg	
72-43-5	Methoxychlor	ND	5.6	ug/kg	
53494-70-5	Endrin ketone	ND	5.6	ug/kg	
8001-35-2	Toxaphene	ND	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	41%	45%	30-150%
877-09-8	Tetrachloro-m-xylene	30%	27% [c]	30-150%
2051-24-3	Decachlorobiphenyl	133%	133%	30-150%
2051-24-3	Decachlorobiphenyl	305% [d]	226% [d]	30-150%

(a) Confirmation run.
(b) Confirmation value > 40% RPD.
(c) Outside control limits due to possible matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q

(d) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34263.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	28	ug/kg	
11104-28-2	Aroclor 1221	ND	28	ug/kg	
11141-16-5	Aroclor 1232	ND	28	ug/kg	
53469-21-9	Aroclor 1242	ND	28	ug/kg	
12672-29-6	Aroclor 1248	ND	28	ug/kg	
11097-69-1	Aroclor 1254	ND	28	ug/kg	
11096-82-5	Aroclor 1260	ND	28	ug/kg	
37324-23-5	Aroclor 1262	ND	28	ug/kg	
11100-14-4	Aroclor 1268	ND	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		30-150%
877-09-8	Tetrachloro-m-xylene	61%		30-150%
2051-24-3	Decachlorobiphenyl	70%		30-150%
2051-24-3	Decachlorobiphenyl	68%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31069.D	5	01/27/14	KN	01/21/14	OP36614	GBI1130
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	803	93	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.3	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	40.2	4.5	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.36	0.36	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	12.6	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	62.2	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.037	0.037	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.90	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.45	0.45	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-11 1'-3'		
Lab Sample ID:	MC27780-15A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.026		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62924.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.89 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	11	ug/kg	
107-13-1	Acrylonitrile	ND	28	ug/kg	
71-43-2	Benzene	ND	0.57	ug/kg	
108-86-1	Bromobenzene	ND	5.7	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
76-13-1	Freon 113	ND	5.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.7	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	ug/kg	
74-95-3	Methylene bromide	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	2.3	ug/kg	
91-20-3	Naphthalene	ND	5.7	ug/kg	
103-65-1	n-Propylbenzene	ND	5.7	ug/kg	
100-42-5	Styrene	ND	5.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.7	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.7	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
	m,p-Xylene	ND	2.3	ug/kg	
95-47-6	o-Xylene	ND	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71378.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	21.0 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1300	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	2700	ug/kg	
106-44-5	4-Methylphenol	ND	2700	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	ug/kg	
100-02-7	4-Nitrophenol	ND	5300	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	ug/kg	
108-95-2	Phenol	ND	1300	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	ug/kg	
83-32-9	Acenaphthene	ND	530	ug/kg	
208-96-8	Acenaphthylene	8380	530	ug/kg	
62-53-3	Aniline	ND	2700	ug/kg	
120-12-7	Anthracene	4850	530	ug/kg	
56-55-3	Benzo(a)anthracene	20300	530	ug/kg	
50-32-8	Benzo(a)pyrene	21200	530	ug/kg	
205-99-2	Benzo(b)fluoranthene	18600	530	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15100	530	ug/kg	
207-08-9	Benzo(k)fluoranthene	20200	530	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1300	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1300	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1300	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	ug/kg	
86-74-8	Carbazole	1650	530	ug/kg	
218-01-9	Chrysene	23600	530	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1300	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1300	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1300	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1300	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	5170	530	ug/kg	
132-64-9	Dibenzofuran	ND	530	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1300	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1300	ug/kg	
84-66-2	Diethyl phthalate	ND	1300	ug/kg	
131-11-3	Dimethyl phthalate	ND	1300	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1300	ug/kg	
206-44-0	Fluoranthene	36900	530	ug/kg	
86-73-7	Fluorene	824	530	ug/kg	
118-74-1	Hexachlorobenzene	ND	1300	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1300	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	ug/kg	
67-72-1	Hexachloroethane	ND	1300	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	14000	530	ug/kg	
78-59-1	Isophorone	ND	1300	ug/kg	
91-57-6	2-Methylnaphthalene	ND	530	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	ug/kg	
91-20-3	Naphthalene	ND	530	ug/kg	
98-95-3	Nitrobenzene	ND	1300	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1300	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1300	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2700	ug/kg	
85-01-8	Phenanthrene	17100	530	ug/kg	
129-00-0	Pyrene	33700	530	ug/kg	
110-86-1	Pyridine	ND	2700	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		30-130%
4165-62-2	Phenol-d5	54%		30-130%
118-79-6	2,4,6-Tribromophenol	70%		30-130%
4165-60-0	Nitrobenzene-d5	42%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	56%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31070.D	5	01/27/14	KN	01/21/14	OP36614	GBI1129
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	1340	91	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.1	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	33.4	4.5	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.36	0.36	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	16.8	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	107	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.034	0.034	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.90	0.90	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.45	0.45	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-12 1'-3'		
Lab Sample ID:	MC27780-16A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	89.7
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.039		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62925.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	5.16 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	99.8	11	ug/kg	
107-13-1	Acrylonitrile	ND	27	ug/kg	
71-43-2	Benzene	ND	0.54	ug/kg	
108-86-1	Bromobenzene	ND	5.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	ug/kg	
75-25-2	Bromoform	ND	2.1	ug/kg	
74-83-9	Bromomethane	ND	2.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.1	ug/kg	
74-87-3	Chloromethane	ND	5.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	ug/kg	
76-13-1	Freon 113	ND	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.4	ug/kg	
74-95-3	Methylene bromide	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.4	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	ug/kg	
100-42-5	Styrene	ND	5.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.4	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	ug/kg	
79-01-6	Trichloroethene	ND	2.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	ug/kg	
	m,p-Xylene	ND	2.1	ug/kg	
95-47-6	o-Xylene	ND	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71379.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1300	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	2700	ug/kg	
106-44-5	4-Methylphenol	ND	2700	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	ug/kg	
100-02-7	4-Nitrophenol	ND	5300	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	ug/kg	
108-95-2	Phenol	ND	1300	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	ug/kg	
83-32-9	Acenaphthene	ND	530	ug/kg	
208-96-8	Acenaphthylene	3850	530	ug/kg	
62-53-3	Aniline	ND	2700	ug/kg	
120-12-7	Anthracene	2390	530	ug/kg	
56-55-3	Benzo(a)anthracene	11300	530	ug/kg	
50-32-8	Benzo(a)pyrene	11000	530	ug/kg	
205-99-2	Benzo(b)fluoranthene	11600	530	ug/kg	
191-24-2	Benzo(g,h,i)perylene	7430	530	ug/kg	
207-08-9	Benzo(k)fluoranthene	7890	530	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1300	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1300	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1300	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	ug/kg	
86-74-8	Carbazole	632	530	ug/kg	
218-01-9	Chrysene	12400	530	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1300	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1300	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1300	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1300	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2640	530	ug/kg	
132-64-9	Dibenzofuran	ND	530	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1300	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1300	ug/kg	
84-66-2	Diethyl phthalate	ND	1300	ug/kg	
131-11-3	Dimethyl phthalate	ND	1300	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1300	ug/kg	
206-44-0	Fluoranthene	20400	530	ug/kg	
86-73-7	Fluorene	ND	530	ug/kg	
118-74-1	Hexachlorobenzene	ND	1300	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1300	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	ug/kg	
67-72-1	Hexachloroethane	ND	1300	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	6770	530	ug/kg	
78-59-1	Isophorone	ND	1300	ug/kg	
91-57-6	2-Methylnaphthalene	ND	530	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	ug/kg	
91-20-3	Naphthalene	ND	530	ug/kg	
98-95-3	Nitrobenzene	ND	1300	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1300	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1300	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2700	ug/kg	
85-01-8	Phenanthrene	6810	530	ug/kg	
129-00-0	Pyrene	18000	530	ug/kg	
110-86-1	Pyridine	ND	2700	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		30-130%
4165-62-2	Phenol-d5	59%		30-130%
118-79-6	2,4,6-Tribromophenol	81%		30-130%
4165-60-0	Nitrobenzene-d5	47%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40273.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2 [a]	BE40292.D	1	01/28/14	NK	01/21/14	OP36623	GBE2079

	Initial Weight	Final Volume
Run #1	20.0 g	10.0 ml
Run #2	20.0 g	10.0 ml

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	55	ug/kg	
309-00-2	Aldrin	ND	5.5	ug/kg	
319-84-6	alpha-BHC	ND	5.5	ug/kg	
319-85-7	beta-BHC	ND	5.5	ug/kg	
319-86-8	delta-BHC	ND	5.5	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.5	ug/kg	
12789-03-6	Chlordane	ND	55	ug/kg	
60-57-1	Dieldrin	ND	5.5	ug/kg	
72-54-8	4,4'-DDD	ND	5.5	ug/kg	
72-55-9	4,4'-DDE [b]	9.5	5.5	ug/kg	
50-29-3	4,4'-DDT [b]	63.1	5.5	ug/kg	
72-20-8	Endrin	ND	5.5	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.5	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.5	ug/kg	
959-98-8	Endosulfan-I	ND	5.5	ug/kg	
33213-65-9	Endosulfan-II	ND	5.5	ug/kg	
76-44-8	Heptachlor	ND	5.5	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.5	ug/kg	
72-43-5	Methoxychlor	ND	5.5	ug/kg	
53494-70-5	Endrin ketone	ND	5.5	ug/kg	
8001-35-2	Toxaphene	ND	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	45%	49%	30-150%
877-09-8	Tetrachloro-m-xylene	32%	32%	30-150%
2051-24-3	Decachlorobiphenyl	122%	118%	30-150%
2051-24-3	Decachlorobiphenyl	247% [c]	209% [c]	30-150%

(a) Confirmation run.
(b) Confirmation value > 40% RPD.
(c) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34264.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	28	ug/kg	
11104-28-2	Aroclor 1221	ND	28	ug/kg	
11141-16-5	Aroclor 1232	ND	28	ug/kg	
53469-21-9	Aroclor 1242	ND	28	ug/kg	
12672-29-6	Aroclor 1248	ND	28	ug/kg	
11097-69-1	Aroclor 1254	ND	28	ug/kg	
11096-82-5	Aroclor 1260	ND	28	ug/kg	
37324-23-5	Aroclor 1262	ND	28	ug/kg	
11100-14-4	Aroclor 1268	ND	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		30-150%
877-09-8	Tetrachloro-m-xylene	68%		30-150%
2051-24-3	Decachlorobiphenyl	74%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31063.D	5	01/27/14	KN	01/21/14	OP36614	GBI1130
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	834	90	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.6	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	38.7	4.5	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.37	0.36	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	22.1	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	87.6	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.033	0.033	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.91	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.45	0.45	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-13 1'-3'		
Lab Sample ID:	MC27780-17A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	90.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.040		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62926.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	5.24 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	172	11	ug/kg	
107-13-1	Acrylonitrile	ND	27	ug/kg	
71-43-2	Benzene	ND	0.54	ug/kg	
108-86-1	Bromobenzene	ND	5.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
74-83-9	Bromomethane	ND	2.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
74-87-3	Chloromethane	ND	5.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
76-13-1	Freon 113	ND	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.4	ug/kg	
74-95-3	Methylene bromide	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	ug/kg	
100-42-5	Styrene	ND	5.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.4	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
79-01-6	Trichloroethene	ND	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	ug/kg	
	m,p-Xylene	ND	2.2	ug/kg	
95-47-6	o-Xylene	ND	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71380.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2	F71408.D	25	01/28/14	KR	01/25/14	OP36612	MSF3180

	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2	20.8 g	1.0 ml

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	2700	ug/kg	
106-44-5	4-Methylphenol	ND	2700	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	ug/kg	
100-02-7	4-Nitrophenol	ND	5400	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	ug/kg	
83-32-9	Acenaphthene	ND	540	ug/kg	
208-96-8	Acenaphthylene	10600	540	ug/kg	
62-53-3	Aniline	ND	2700	ug/kg	
120-12-7	Anthracene	7290	540	ug/kg	
56-55-3	Benzo(a)anthracene	29100	540	ug/kg	
50-32-8	Benzo(a)pyrene	25500	540	ug/kg	
205-99-2	Benzo(b)fluoranthene	26600	540	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15900	540	ug/kg	
207-08-9	Benzo(k)fluoranthene	22600	540	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	ug/kg	
86-74-8	Carbazole	3390	540	ug/kg	
218-01-9	Chrysene	32900	540	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	6120	540	ug/kg	
132-64-9	Dibenzofuran	781	540	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	73100 [a]	2700	ug/kg	
86-73-7	Fluorene	1700	540	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	15700	540	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	540	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	ug/kg	
91-20-3	Naphthalene	ND	540	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2700	ug/kg	
85-01-8	Phenanthrene	37500	540	ug/kg	
129-00-0	Pyrene	56500 [a]	2700	ug/kg	
110-86-1	Pyridine	ND	2700	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%	33%	30-130%
4165-62-2	Phenol-d5	52%	26% [b]	30-130%
118-79-6	2,4,6-Tribromophenol	66%	51%	30-130%
4165-60-0	Nitrobenzene-d5	44%	35%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	57%	52%	30-130%
1718-51-0	Terphenyl-d14	66%	70%	30-130%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31065.D	5	01/27/14	KN	01/21/14	OP36614	GBI1130
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	1280	93	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.7	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	26.1	4.6	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.37	0.37	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	19.0	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	133	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.035	0.035	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.91	0.91	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-14 1'-3'		
Lab Sample ID:	MC27780-18A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.3
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	0.060		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62927.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.93 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	111	12	ug/kg	
107-13-1	Acrylonitrile	ND	30	ug/kg	
71-43-2	Benzene	ND	0.60	ug/kg	
108-86-1	Bromobenzene	ND	6.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
74-83-9	Bromomethane	ND	2.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	ug/kg	
104-51-8	n-Butylbenzene	ND	6.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.0	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
74-87-3	Chloromethane	ND	6.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.4	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.4	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	6.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
76-13-1	Freon 113	ND	6.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.0	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.0	ug/kg	
74-95-3	Methylene bromide	ND	6.0	ug/kg	
75-09-2	Methylene chloride	ND	2.4	ug/kg	
91-20-3	Naphthalene	ND	6.0	ug/kg	
103-65-1	n-Propylbenzene	ND	6.0	ug/kg	
100-42-5	Styrene	ND	6.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	ug/kg	
108-88-3	Toluene	ND	6.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	6.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
79-01-6	Trichloroethene	ND	2.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	ug/kg	
	m,p-Xylene	ND	2.4	ug/kg	
95-47-6	o-Xylene	ND	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71381.D	5	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	ug/kg	
95-48-7	2-Methylphenol	ND	2900	ug/kg	
106-44-5	4-Methylphenol	ND	2900	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	ug/kg	
100-02-7	4-Nitrophenol	ND	5900	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	ug/kg	
108-95-2	Phenol	ND	1500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	ug/kg	
83-32-9	Acenaphthene	ND	590	ug/kg	
208-96-8	Acenaphthylene	6180	590	ug/kg	
62-53-3	Aniline	ND	2900	ug/kg	
120-12-7	Anthracene	3380	590	ug/kg	
56-55-3	Benzo(a)anthracene	11100	590	ug/kg	
50-32-8	Benzo(a)pyrene	11400	590	ug/kg	
205-99-2	Benzo(b)fluoranthene	12800	590	ug/kg	
191-24-2	Benzo(g,h,i)perylene	7410	590	ug/kg	
207-08-9	Benzo(k)fluoranthene	8580	590	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	ug/kg	
86-74-8	Carbazole	1640	590	ug/kg	
218-01-9	Chrysene	14200	590	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2510	590	ug/kg	
132-64-9	Dibenzofuran	ND	590	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	ug/kg	
206-44-0	Fluoranthene	26200	590	ug/kg	
86-73-7	Fluorene	742	590	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	ug/kg	
67-72-1	Hexachloroethane	ND	1500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	7230	590	ug/kg	
78-59-1	Isophorone	ND	1500	ug/kg	
91-57-6	2-Methylnaphthalene	ND	590	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	ug/kg	
91-20-3	Naphthalene	ND	590	ug/kg	
98-95-3	Nitrobenzene	ND	1500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	2900	ug/kg	
85-01-8	Phenanthrene	13800	590	ug/kg	
129-00-0	Pyrene	22000	590	ug/kg	
110-86-1	Pyridine	ND	2900	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2900	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	86%		30-130%
4165-60-0	Nitrobenzene-d5	51%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40274.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2 [a]	BE40293.D	1	01/28/14	NK	01/21/14	OP36623	GBE2079

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2	20.1 g	10.0 ml

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	59	ug/kg	
309-00-2	Aldrin	ND	5.9	ug/kg	
319-84-6	alpha-BHC	ND	5.9	ug/kg	
319-85-7	beta-BHC	ND	5.9	ug/kg	
319-86-8	delta-BHC	ND	5.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.9	ug/kg	
12789-03-6	Chlordane	ND	59	ug/kg	
60-57-1	Dieldrin	ND	5.9	ug/kg	
72-54-8	4,4'-DDD	ND	5.9	ug/kg	
72-55-9	4,4'-DDE [b]	10.0	5.9	ug/kg	
50-29-3	4,4'-DDT [b]	59.8	5.9	ug/kg	
72-20-8	Endrin	ND	5.9	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.9	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.9	ug/kg	
959-98-8	Endosulfan-I	ND	5.9	ug/kg	
33213-65-9	Endosulfan-II	ND	5.9	ug/kg	
76-44-8	Heptachlor	ND	5.9	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.9	ug/kg	
72-43-5	Methoxychlor	ND	5.9	ug/kg	
53494-70-5	Endrin ketone	ND	5.9	ug/kg	
8001-35-2	Toxaphene	ND	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	37%	34%	30-150%
877-09-8	Tetrachloro-m-xylene	25% [c]	21% [c]	30-150%
2051-24-3	Decachlorobiphenyl	211% [c]	213% [c]	30-150%
2051-24-3	Decachlorobiphenyl	440% [c]	376% [c]	30-150%

(a) Confirmation run.
(b) Confirmation value > 40% RPD.
(c) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34265.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	30	ug/kg	
11104-28-2	Aroclor 1221	ND	30	ug/kg	
11141-16-5	Aroclor 1232	ND	30	ug/kg	
53469-21-9	Aroclor 1242	ND	30	ug/kg	
12672-29-6	Aroclor 1248	ND	30	ug/kg	
11097-69-1	Aroclor 1254	ND	30	ug/kg	
11096-82-5	Aroclor 1260	ND	30	ug/kg	
37324-23-5	Aroclor 1262	ND	30	ug/kg	
11100-14-4	Aroclor 1268	ND	30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		30-150%
877-09-8	Tetrachloro-m-xylene	66%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%
2051-24-3	Decachlorobiphenyl	72%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659785.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	189	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.5	0.97	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	35.0	4.8	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.39	0.39	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	15.0	0.97	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	49.4	0.97	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.041	0.037	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.97	0.97	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.48	0.48	mg/kg	1	01/23/14	01/23/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22416

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-15 1'-3'		
Lab Sample ID:	MC27780-19A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	83.9
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62928.D	1	01/24/14	KD	n/a	n/a	MSM2204
Run #2							

	Initial Weight	Final Volume
Run #1	4.95 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	31.1	11	ug/kg	
107-13-1	Acrylonitrile	ND	29	ug/kg	
71-43-2	Benzene	ND	0.57	ug/kg	
108-86-1	Bromobenzene	ND	5.7	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
74-83-9	Bromomethane	ND	2.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
74-87-3	Chloromethane	ND	5.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
76-13-1	Freon 113	ND	5.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.7	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	ug/kg	
74-95-3	Methylene bromide	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	2.3	ug/kg	
91-20-3	Naphthalene	ND	5.7	ug/kg	
103-65-1	n-Propylbenzene	ND	5.7	ug/kg	
100-42-5	Styrene	ND	5.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.7	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
79-01-6	Trichloroethene	ND	2.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.7	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	ug/kg	
	m,p-Xylene	ND	2.3	ug/kg	
95-47-6	o-Xylene	ND	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F71382.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	280	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	550	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	550	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	550	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	550	ug/kg	
95-48-7	2-Methylphenol	ND	550	ug/kg	
106-44-5	4-Methylphenol	ND	550	ug/kg	
88-75-5	2-Nitrophenol	ND	550	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	550	ug/kg	
108-95-2	Phenol	ND	280	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	550	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	550	ug/kg	
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
62-53-3	Aniline	ND	550	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	ug/kg	
50-32-8	Benzo(a)pyrene	ND	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	ug/kg	
106-47-8	4-Chloroaniline	ND	550	ug/kg	
86-74-8	Carbazole	ND	110	ug/kg	
218-01-9	Chrysene	ND	110	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	550	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	550	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	ug/kg	
132-64-9	Dibenzofuran	ND	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	ug/kg	
84-66-2	Diethyl phthalate	ND	280	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	ug/kg	
206-44-0	Fluoranthene	ND	110	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	550	ug/kg	
67-72-1	Hexachloroethane	ND	280	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	ug/kg	
78-59-1	Isophorone	ND	280	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
88-74-4	2-Nitroaniline	ND	550	ug/kg	
99-09-2	3-Nitroaniline	ND	550	ug/kg	
100-01-6	4-Nitroaniline	ND	550	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
98-95-3	Nitrobenzene	ND	280	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	550	ug/kg	
85-01-8	Phenanthrene	ND	110	ug/kg	
129-00-0	Pyrene	ND	110	ug/kg	
110-86-1	Pyridine	ND	550	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	550	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		30-130%
4165-62-2	Phenol-d5	75%		30-130%
118-79-6	2,4,6-Tribromophenol	98%		30-130%
4165-60-0	Nitrobenzene-d5	65%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	96%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC659775.D	1	01/27/14	KN	01/21/14	OP36614	GBC3574
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	ND	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.8	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	55.9	4.6	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.36	0.36	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	13.3	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	6.1	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.035	0.035	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.91	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.46	0.46	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16692
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22425

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-16 1'-3'		
Lab Sample ID:	MC27780-20A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	88.4
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16686
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22419
(4) Prep QC Batch: MP22421

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62938.D	1	01/26/14	KD	n/a	n/a	MSM2205
Run #2							

	Initial Weight	Final Volume
Run #1	4.25 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	13	ug/kg	
107-13-1	Acrylonitrile	ND	34	ug/kg	
71-43-2	Benzene	ND	0.67	ug/kg	
108-86-1	Bromobenzene	ND	6.7	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	ug/kg	
75-25-2	Bromoform	ND	2.7	ug/kg	
74-83-9	Bromomethane	ND	2.7	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	ug/kg	
104-51-8	n-Butylbenzene	ND	6.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.7	ug/kg	
75-15-0	Carbon disulfide	ND	6.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	ug/kg	
75-00-3	Chloroethane	ND	6.7	ug/kg	
67-66-3	Chloroform	ND	2.7	ug/kg	
74-87-3	Chloromethane	ND	6.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.7	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.7	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.7	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.7	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.7	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	6.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	ug/kg	
100-41-4	Ethylbenzene	ND	2.7	ug/kg	
76-13-1	Freon 113	ND	6.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.7	ug/kg	
591-78-6	2-Hexanone	ND	13	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.7	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.7	ug/kg	
74-95-3	Methylene bromide	ND	6.7	ug/kg	
75-09-2	Methylene chloride	ND	2.7	ug/kg	
91-20-3	Naphthalene	ND	6.7	ug/kg	
103-65-1	n-Propylbenzene	ND	6.7	ug/kg	
100-42-5	Styrene	ND	6.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	ug/kg	
109-99-9	Tetrahydrofuran	ND	13	ug/kg	
108-88-3	Toluene	ND	6.7	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	6.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	ug/kg	
79-01-6	Trichloroethene	ND	2.7	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.7	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	ug/kg	
	m,p-Xylene	ND	2.7	ug/kg	
95-47-6	o-Xylene	ND	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36706.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	280	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	ug/kg	
95-48-7	2-Methylphenol	ND	560	ug/kg	
106-44-5	4-Methylphenol	ND	560	ug/kg	
88-75-5	2-Nitrophenol	ND	560	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	ug/kg	
108-95-2	Phenol	ND	280	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	ug/kg	
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
62-53-3	Aniline	ND	560	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	ug/kg	
50-32-8	Benzo(a)pyrene	114	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	129	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	112	110	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	ug/kg	
106-47-8	4-Chloroaniline	ND	560	ug/kg	
86-74-8	Carbazole	ND	110	ug/kg	
218-01-9	Chrysene	126	110	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	ug/kg	
132-64-9	Dibenzofuran	ND	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	ug/kg	
84-66-2	Diethyl phthalate	ND	280	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	ug/kg	
206-44-0	Fluoranthene	216	110	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	ug/kg	
67-72-1	Hexachloroethane	ND	280	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	ug/kg	
78-59-1	Isophorone	ND	280	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
88-74-4	2-Nitroaniline	ND	560	ug/kg	
99-09-2	3-Nitroaniline	ND	560	ug/kg	
100-01-6	4-Nitroaniline	ND	560	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
98-95-3	Nitrobenzene	ND	280	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	560	ug/kg	
85-01-8	Phenanthrene	ND	110	ug/kg	
129-00-0	Pyrene	199	110	ug/kg	
110-86-1	Pyridine	ND	560	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	560	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		30-130%
4165-62-2	Phenol-d5	45%		30-130%
118-79-6	2,4,6-Tribromophenol	46%		30-130%
4165-60-0	Nitrobenzene-d5	50%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	44%		30-130%
1718-51-0	Terphenyl-d14	48%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31073.D	1	01/27/14	KN	01/21/14	OP36599	GBI1130
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	127	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	52%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.93	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	36.3	4.5	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.36	0.36	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	10.7	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	21.6	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.034	0.034	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.91	0.91	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.45	0.45	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16692
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22425

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-17 1'-3'		
Lab Sample ID:	MC27780-21A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	87.6
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16685
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22418
(4) Prep QC Batch: MP22420

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62939.D	1	01/26/14	KD	n/a	n/a	MSM2205
Run #2							

	Initial Weight	Final Volume
Run #1	4.83 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	11	ug/kg	
107-13-1	Acrylonitrile	ND	27	ug/kg	
71-43-2	Benzene	ND	0.55	ug/kg	
108-86-1	Bromobenzene	ND	5.5	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
74-83-9	Bromomethane	ND	2.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.5	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
74-87-3	Chloromethane	ND	5.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.5	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.5	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
76-13-1	Freon 113	ND	5.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.5	ug/kg	
74-95-3	Methylene bromide	ND	5.5	ug/kg	
75-09-2	Methylene chloride	ND	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.5	ug/kg	
103-65-1	n-Propylbenzene	ND	5.5	ug/kg	
100-42-5	Styrene	ND	5.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.5	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.5	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
79-01-6	Trichloroethene	ND	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.5	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	ug/kg	
	m,p-Xylene	ND	2.2	ug/kg	
95-47-6	o-Xylene	ND	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36707.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	250	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	510	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	510	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	510	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	510	ug/kg	
95-48-7	2-Methylphenol	ND	510	ug/kg	
106-44-5	4-Methylphenol	ND	510	ug/kg	
88-75-5	2-Nitrophenol	ND	510	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	510	ug/kg	
108-95-2	Phenol	ND	250	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	510	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	510	ug/kg	
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	147	100	ug/kg	
62-53-3	Aniline	ND	510	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo(a)anthracene	211	100	ug/kg	
50-32-8	Benzo(a)pyrene	237	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	254	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	154	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	233	100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	250	ug/kg	
91-58-7	2-Chloronaphthalene	ND	250	ug/kg	
106-47-8	4-Chloroaniline	ND	510	ug/kg	
86-74-8	Carbazole	ND	100	ug/kg	
218-01-9	Chrysene	279	100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	510	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	510	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	ug/kg	
132-64-9	Dibenzofuran	ND	100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	ug/kg	
84-66-2	Diethyl phthalate	ND	250	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	250	ug/kg	
206-44-0	Fluoranthene	528	100	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	510	ug/kg	
67-72-1	Hexachloroethane	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	145	100	ug/kg	
78-59-1	Isophorone	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
88-74-4	2-Nitroaniline	ND	510	ug/kg	
99-09-2	3-Nitroaniline	ND	510	ug/kg	
100-01-6	4-Nitroaniline	ND	510	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
98-95-3	Nitrobenzene	ND	250	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	510	ug/kg	
85-01-8	Phenanthrene	272	100	ug/kg	
129-00-0	Pyrene	493	100	ug/kg	
110-86-1	Pyridine	ND	510	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	510	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	68%		30-130%
4165-60-0	Nitrobenzene-d5	74%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8081 SW846 3546	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE40275.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	53	ug/kg	
309-00-2	Aldrin	ND	5.3	ug/kg	
319-84-6	alpha-BHC	ND	5.3	ug/kg	
319-85-7	beta-BHC	ND	5.3	ug/kg	
319-86-8	delta-BHC	ND	5.3	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	5.3	ug/kg	
12789-03-6	Chlordane	ND	53	ug/kg	
60-57-1	Dieldrin	ND	5.3	ug/kg	
72-54-8	4,4'-DDD	ND	5.3	ug/kg	
72-55-9	4,4'-DDE	ND	5.3	ug/kg	
50-29-3	4,4'-DDT	ND	5.3	ug/kg	
72-20-8	Endrin	ND	5.3	ug/kg	
1031-07-8	Endosulfan sulfate	ND	5.3	ug/kg	
7421-93-4	Endrin aldehyde	ND	5.3	ug/kg	
959-98-8	Endosulfan-I	ND	5.3	ug/kg	
33213-65-9	Endosulfan-II	ND	5.3	ug/kg	
76-44-8	Heptachlor	ND	5.3	ug/kg	
1024-57-3	Heptachlor epoxide	ND	5.3	ug/kg	
72-43-5	Methoxychlor	ND	5.3	ug/kg	
53494-70-5	Endrin ketone	ND	5.3	ug/kg	
8001-35-2	Toxaphene	ND	53	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		30-150%
877-09-8	Tetrachloro-m-xylene	52%		30-150%
2051-24-3	Decachlorobiphenyl	68%		30-150%
2051-24-3	Decachlorobiphenyl	41%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8082 SW846 3546	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34266.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	10.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	26	ug/kg	
11104-28-2	Aroclor 1221	ND	26	ug/kg	
11141-16-5	Aroclor 1232	ND	26	ug/kg	
53469-21-9	Aroclor 1242	ND	26	ug/kg	
12672-29-6	Aroclor 1248	ND	26	ug/kg	
11097-69-1	Aroclor 1254	ND	26	ug/kg	
11096-82-5	Aroclor 1260	ND	26	ug/kg	
37324-23-5	Aroclor 1262	ND	26	ug/kg	
11100-14-4	Aroclor 1268	ND	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		30-150%
877-09-8	Tetrachloro-m-xylene	86%		30-150%
2051-24-3	Decachlorobiphenyl	77%		30-150%
2051-24-3	Decachlorobiphenyl	88%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31038.D	1	01/24/14	KN	01/21/14	OP36599	GBI1128
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	27.7	17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.94	0.94	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	17.3	4.7	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.38	0.38	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	4.8	0.94	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	24.7	0.94	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.034	0.034	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.94	0.94	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.47	0.47	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16692
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22425

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-18 1'-3'		
Lab Sample ID:	MC27780-22A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	94.5
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16685
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22418
(4) Prep QC Batch: MP22420

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M62940.D	1	01/26/14	KD	n/a	n/a	MSM2205
Run #2							

	Initial Weight	Final Volume
Run #1	4.79 g	5.0 ml
Run #2		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	11	ug/kg	
107-13-1	Acrylonitrile	ND	28	ug/kg	
71-43-2	Benzene	ND	0.56	ug/kg	
108-86-1	Bromobenzene	ND	5.6	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
74-83-9	Bromomethane	ND	2.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
74-87-3	Chloromethane	ND	5.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.6	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.6	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.6	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
76-13-1	Freon 113	ND	5.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.6	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.6	ug/kg	
74-95-3	Methylene bromide	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.6	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	ug/kg	
100-42-5	Styrene	ND	5.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	ug/kg	
108-88-3	Toluene	ND	5.6	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
79-01-6	Trichloroethene	ND	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	ug/kg	
	m,p-Xylene	ND	2.2	ug/kg	
95-47-6	o-Xylene	ND	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8260C	**Percent Solids:**	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R36708.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	270	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	540	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	540	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	540	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	540	ug/kg	
95-48-7	2-Methylphenol	ND	540	ug/kg	
106-44-5	4-Methylphenol	ND	540	ug/kg	
88-75-5	2-Nitrophenol	ND	540	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	540	ug/kg	
108-95-2	Phenol	ND	270	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	540	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	540	ug/kg	
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	137	110	ug/kg	
62-53-3	Aniline	ND	540	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo(a)anthracene	197	110	ug/kg	
50-32-8	Benzo(a)pyrene	235	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	232	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	163	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	216	110	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	270	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	270	ug/kg	
91-58-7	2-Chloronaphthalene	ND	270	ug/kg	
106-47-8	4-Chloroaniline	ND	540	ug/kg	
86-74-8	Carbazole	ND	110	ug/kg	
218-01-9	Chrysene	218	110	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	270	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	270	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	270	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	270	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	540	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	540	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	ug/kg	
132-64-9	Dibenzofuran	ND	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	270	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	270	ug/kg	
84-66-2	Diethyl phthalate	ND	270	ug/kg	
131-11-3	Dimethyl phthalate	ND	270	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	270	ug/kg	
206-44-0	Fluoranthene	374	110	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
118-74-1	Hexachlorobenzene	ND	270	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	540	ug/kg	
67-72-1	Hexachloroethane	ND	270	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	152	110	ug/kg	
78-59-1	Isophorone	ND	270	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
88-74-4	2-Nitroaniline	ND	540	ug/kg	
99-09-2	3-Nitroaniline	ND	540	ug/kg	
100-01-6	4-Nitroaniline	ND	540	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
98-95-3	Nitrobenzene	ND	270	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	270	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	540	ug/kg	
85-01-8	Phenanthrene	110	110	ug/kg	
129-00-0	Pyrene	349	110	ug/kg	
110-86-1	Pyridine	ND	540	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	540	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	69%		30-130%
4165-60-0	Nitrobenzene-d5	76%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

ABN RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
Method:	CT-ETPH 7/06 SW846 3546	**Percent Solids:**	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI31020.D	1	01/24/14	KN	01/21/14	OP36599	GBI1128
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	30.8	17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		50-137%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.5	0.96	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	52.6	4.8	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.38	0.38	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	113	0.96	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	12.5	0.96	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.034	0.034	mg/kg	1	01/23/14	01/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 0.96	0.96	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.48	0.48	mg/kg	1	01/24/14	01/24/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA16682
(2) Instrument QC Batch: MA16692
(3) Prep QC Batch: MP22415
(4) Prep QC Batch: MP22425

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GP-19 1'-3'		
Lab Sample ID:	MC27780-23A	**Date Sampled:**	01/20/14
Matrix:	SO - Soil	**Date Received:**	01/20/14
		Percent Solids:	93.0
Project:	Bridge 1358-Rte 139 Over Branford River, Branford, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Barium	< 0.50		0.50	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 0.0040		0.0040	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Chromium	0.012		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Lead	< 0.010		0.010	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.00020		0.00020	mg/l	1	01/23/14	01/24/14	SA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 0.025		0.025	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]
Silver	< 0.0050		0.0050	mg/l	1	01/23/14	01/24/14	EAL	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA16685
(2) Instrument QC Batch: MA16690
(3) Prep QC Batch: MP22418
(4) Prep QC Batch: MP22420

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #: | Accutest Quote #: | Accutest Job #: MC27780

Client / Reporting Information

Company Name: CDR Maguire
Street Address: 2080 Silas Deane Hwy
City: Rocky Hill State: CT Zip: 06067
Project Contact: Jane Witherell E-mail: jane.witherell@cdrmaguire.com
Phone #: 860 563 3158 Fax #:
Sampler(s) Name(s): Cindy Knight Phone #: 860 4027069

Project Information

Project Name: Bridge 1358 - Rte 139 Over Branford River
Street: Rte 139
City: Branford, CT
Project#: 14-179
Client PO#:
Project Manager: Jane Witherell

Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	MEOH	DI Water	ENCORE	Bisulfate	VOCs 8260	SVOCs 8270	CT ETPH	Total RCRA 8 Metals	SPLP RCRA 8 Metals	Pests - 8081	PCBs - 8082					LAB USE ONLY
MC27780-1	SED-1		1/20/14	6:05am	CK	SED	1							1		2	X	X	X	X	X	X	X					
-2	SED-2			6:35am																		X	X					
-3	SED-3			7:00am																		X	X					
-4	SED-4			7:20am																		X	X					
-5	GP-1 1'-3'			7:40am		SO																X	X					
-6	GP-2 1'-3'			8:00am																								
-7	GP-3 1'-3'			8:20am																								
-8	GP-4 1'-3'			8:45am																		X	X					
-9	GP-5 1'-3'			9:00am																								
-10	GP-6 1'-3'			9:15am																								
-11	GP-7 1'-3'			9:50am																		X	X					
-12	GP-8 1'-3'			10:20am																								

Turnaround Time (Business days)
- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format PDF
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

loc. 3D, 10A5, 10A6

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	1/20/14 2:40	1	2 B-C	1600 1-20-14	2 B-C
3		3	4		4
5		5			

Custody Seal # [ ] Intact [ ] Not intact | Preserved where applicable [ ] | On Ice [✓] | Cooler Temp. 0.8/1.9°C

MC27780: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC27780

Client / Reporting Information

Company Name: CDM Maguire
Street Address: 2080 Silas Deane Hwy
City / State / Zip: Rocky Hill CT 06067
Project Contact / E-mail: Jane Witherell / jane.witherell@cdmmaguire.com
Phone #: 8605633158 / Fax #:
Sampler(s) Name(s) / Phone #: Cindy Knight 8608701780

Project Information

Project Name: Bridge 1358 - Rte 139 over Branford River
Street: Rte 139
City: Branford, CT
Project #: 14-179
Client PO#:
Project Manager: Jane Witherell

Billing Information (If different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet): VOCs 8260; SVOCs 8270; CT ETPH; Total RCRA 8 Metals; SPLP RCRA 8 Metals; Pesticides 8081; PCBs 8082

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	VOCs 8260	SVOCs 8270	CT ETPH	Total RCRA 8 Metals	SPLP RCRA 8 Metals	Pesticides 8081	PCBs 8082					LAB USE ONLY
MC27780-13	GP-9 1-3'		1/20/14	2:00pm	CK	SO	1							1		2	X	X	X	X	X	X	X					
-14	GP-10 1-3'			1:40pm																		X	X					
-15	GP-11 1-3'			1:20pm																								
-16	GP-12 1-3'			1:05pm																								
-17	GP-13 1-3'			12:50pm																		X	X					
-18	GP-14 1-3'			12:35pm																								
-19	GP-15 1-3'			12:10pm																		X	X					
-20	GP-16 1-3'			11:55am																								
-21	GP-17 1-3'			11:35am																								
-22	GP-18 1-3'			11:15am																		X	X					
-23	GP-19 1-3'			10:50am																								

Turnaround Time (Business days)
- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 CKN	1/20/14 2:40	1 B	2 BC	1/21/14	2 BC
3		3	4		4

Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp.
5		5	[ ] Intact [ ] Not intact	[ ]	[x]	

MC27780: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC27780 **Client:** CDR **Immediate Client Services Action Required:** No

Date / Time Received: 1/20/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: BRANFORD **No. Coolers:** 2 **Airbill #'s:**

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☐	☐	☑
2. Trip Blank listed on COC:	☐	☐	☑
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC27780: Chain of Custody
Page 3 of 3

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **CDR Maguire**

Project Location: **Bridge 1358-Rte 139 Over Branford River, Branford, CT** **Project Number:** **14-179**

Sampling Date(s): **1/20/2014**

Laboratory Sample ID(s): MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20, MC27780-21, MC27780-22, MC27780-23, MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A, MC27780-21A, MC27780-22A, MC27780-23A

Methods: Refer to case narrative.

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 CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective 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° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☐ No ☑
	b) Were these reporting limits met?	Yes ☐ No ☑
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 ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #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 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: Position: Lab Director

Printed Name: Reza Tand Date: 1/29/2014
Accutest New England

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-1 Collected: 20-JAN-14 06:05 By: CK SED-1			Received: 20-JAN-14 By:			
MC27780-1	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-1	SW846 7471B	23-JAN-14 14:23	SA	23-JAN-14	EM	HG
MC27780-1	SW846 6010C	23-JAN-14 19:53	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-1	SW846 8260C	24-JAN-14 10:17	KD			V8260RCP
MC27780-1	SW846 8270D	27-JAN-14 10:53	KR	25-JAN-14	PA	AB8270RCP
MC27780-1	CT-ETPH 7/06	27-JAN-14 13:51	KN	21-JAN-14	PA	BCTTPH
MC27780-1	SW846 8082	27-JAN-14 13:56	NK	21-JAN-14	MEW	P8082RCP
MC27780-1	SW846 8081	27-JAN-14 17:29	NK	21-JAN-14	MEW	P8081RCP
MC27780-2 Collected: 20-JAN-14 06:35 By: CK SED-2			Received: 20-JAN-14 By:			
MC27780-2	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-2	SW846 7471B	23-JAN-14 14:25	SA	23-JAN-14	EM	HG
MC27780-2	SW846 6010C	23-JAN-14 19:58	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-2	SW846 8260C	24-JAN-14 10:47	KD			V8260RCP
MC27780-2	SW846 8270D	27-JAN-14 11:16	KR	25-JAN-14	PA	AB8270RCP
MC27780-2	CT-ETPH 7/06	27-JAN-14 12:16	KN	21-JAN-14	PA	BCTTPH
MC27780-2	SW846 8082	27-JAN-14 14:15	NK	21-JAN-14	MEW	P8082RCP
MC27780-2	SW846 8081	27-JAN-14 17:51	NK	21-JAN-14	MEW	P8081RCP
MC27780-3 Collected: 20-JAN-14 07:00 By: CK SED-3			Received: 20-JAN-14 By:			
MC27780-3	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-3	SW846 7471B	23-JAN-14 14:28	SA	23-JAN-14	EM	HG
MC27780-3	SW846 6010C	23-JAN-14 20:03	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-3	SW846 8260C	24-JAN-14 11:16	KD			V8260RCP
MC27780-3	SW846 8270D	27-JAN-14 11:39	KR	25-JAN-14	PA	AB8270RCP
MC27780-3	CT-ETPH 7/06	27-JAN-14 11:53	KN	21-JAN-14	PA	BCTTPH
MC27780-3	SW846 8082	27-JAN-14 14:53	NK	21-JAN-14	MEW	P8082RCP
MC27780-3	SW846 8081	27-JAN-14 18:13	NK	21-JAN-14	MEW	P8081RCP
MC27780-4 Collected: 20-JAN-14 07:20 By: CK SED-4			Received: 20-JAN-14 By:			
MC27780-4	SM21 2540 B MOD.	21-JAN-14	MC			%SOL

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-4	SW846 7471B	23-JAN-14 14:31	SA	23-JAN-14	EM	HG
MC27780-4	SW846 6010C	23-JAN-14 20:18	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-4	SW846 8260C	24-JAN-14 11:45	KD			V8260RCP
MC27780-4	CT-ETPH 7/06	27-JAN-14 12:48	KN	21-JAN-14	PA	BCTTPH
MC27780-4	SW846 8082	27-JAN-14 15:12	NK	21-JAN-14	MEW	P8082RCP
MC27780-4	SW846 8081	27-JAN-14 18:35	NK	21-JAN-14	MEW	P8081RCP
MC27780-4	SW846 8270D	29-JAN-14 10:38	KR	28-JAN-14	MEW	AB8270RCP
MC27780-5	Collected: 20-JAN-14 07:40 By: CK		Received: 20-JAN-14 By:			
GP-1 1'-3'						
MC27780-5	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-5	SW846 6010C	23-JAN-14 20:22	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-5	SW846 8260C	24-JAN-14 12:15	KD			V8260RCP
MC27780-5	SW846 7471B	27-JAN-14 10:09	SA	23-JAN-14	EM	HG
MC27780-5	CT-ETPH 7/06	27-JAN-14 11:24	KN	21-JAN-14	PA	BCTTPH
MC27780-5	SW846 8270D	27-JAN-14 12:26	KR	25-JAN-14	PA	AB8270RCP
MC27780-5	SW846 8082	27-JAN-14 15:30	NK	21-JAN-14	MEW	P8082RCP
MC27780-5	SW846 8081	27-JAN-14 18:57	NK	21-JAN-14	MEW	P8081RCP
MC27780-6	Collected: 20-JAN-14 08:00 By: CK		Received: 20-JAN-14 By:			
GP-2 1'-3'						
MC27780-6	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-6	SW846 6010C	23-JAN-14 20:27	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-6	SW846 8260C	24-JAN-14 12:45	KD			V8260RCP
MC27780-6	SW846 7471B	27-JAN-14 10:11	SA	23-JAN-14	EM	HG
MC27780-6	CT-ETPH 7/06	27-JAN-14 11:44	KN	21-JAN-14	PA	BCTTPH
MC27780-6	SW846 8270D	27-JAN-14 12:49	KR	25-JAN-14	PA	AB8270RCP
MC27780-7	Collected: 20-JAN-14 08:20 By: CK		Received: 20-JAN-14 By:			
GP-3 1'-3'						
MC27780-7	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-7	SW846 6010C	23-JAN-14 20:32	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-7	SW846 8260C	24-JAN-14 13:15	KD			V8260RCP
MC27780-7	SW846 7471B	27-JAN-14 10:14	SA	23-JAN-14	EM	HG
MC27780-7	CT-ETPH 7/06	27-JAN-14 11:13	KN	21-JAN-14	PA	BCTTPH
MC27780-7	SW846 8270D	27-JAN-14 13:12	KR	25-JAN-14	PA	AB8270RCP

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-8 Collected: 20-JAN-14 08:45 By: CK GP-4 1'-3'			Received: 20-JAN-14 By:			
MC27780-8	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-8	SW846 6010C	23-JAN-14 19:29	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-8	SW846 8260C	24-JAN-14 13:45	KD			V8260RCP
MC27780-8	CT-ETPH 7/06	27-JAN-14 10:09	KN	21-JAN-14	PA	BCTTPH
MC27780-8	SW846 7471B	27-JAN-14 10:21	SA	23-JAN-14	EM	HG
MC27780-8	SW846 8270D	27-JAN-14 13:36	KR	25-JAN-14	PA	AB8270RCP
MC27780-8	SW846 8082	27-JAN-14 15:49	NK	21-JAN-14	MEW	P8082RCP
MC27780-8	SW846 8081	27-JAN-14 19:19	NK	21-JAN-14	MEW	P8081RCP
MC27780-9 Collected: 20-JAN-14 09:00 By: CK GP-5 1'-3'			Received: 20-JAN-14 By:			
MC27780-9	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-9	SW846 6010C	23-JAN-14 20:37	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-9	SW846 8260C	24-JAN-14 14:14	KD			V8260RCP
MC27780-9	SW846 7471B	27-JAN-14 10:23	SA	23-JAN-14	EM	HG
MC27780-9	CT-ETPH 7/06	27-JAN-14 11:24	KN	21-JAN-14	PA	BCTTPH
MC27780-9	SW846 8270D	27-JAN-14 13:59	KR	25-JAN-14	PA	AB8270RCP
MC27780-10 Collected: 20-JAN-14 09:15 By: CK GP-6 1'-3'			Received: 20-JAN-14 By:			
MC27780-10	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-10	SW846 6010C	23-JAN-14 20:42	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-10	SW846 8260C	24-JAN-14 14:44	KD			V8260RCP
MC27780-10	SW846 7471B	27-JAN-14 10:26	SA	23-JAN-14	EM	HG
MC27780-10	CT-ETPH 7/06	27-JAN-14 13:46	KN	21-JAN-14	PA	BCTTPH
MC27780-10	SW846 8270D	27-JAN-14 14:22	KR	25-JAN-14	PA	AB8270RCP
MC27780-11 Collected: 20-JAN-14 09:50 By: CK GP-7 1'-3'			Received: 20-JAN-14 By:			
MC27780-11	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-11	SW846 6010C	23-JAN-14 20:47	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-11	SW846 8260C	24-JAN-14 15:13	KD			V8260RCP
MC27780-11	SW846 7471B	27-JAN-14 10:29	SA	23-JAN-14	EM	HG

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-11	CT-ETPH 7/06	27-JAN-14 12:49	KN	21-JAN-14	PA	BCTTPH
MC27780-11	SW846 8270D	27-JAN-14 14:45	KR	25-JAN-14	PA	AB8270RCP
MC27780-11	SW846 8082	27-JAN-14 16:08	NK	21-JAN-14	MEW	P8082RCP
MC27780-11	SW846 8081	27-JAN-14 19:41	NK	21-JAN-14	MEW	P8081RCP
MC27780-12	Collected: 20-JAN-14 10:20 By: CK		Received: 20-JAN-14 By:			
GP-8 1'-3'						
MC27780-12	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-12	SW846 6010C	23-JAN-14 20:52	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-12	SW846 8260C	24-JAN-14 15:43	KD			V8260RCP
MC27780-12	SW846 7471B	27-JAN-14 10:31	SA	23-JAN-14	EM	HG
MC27780-12	CT-ETPH 7/06	27-JAN-14 13:46	KN	21-JAN-14	PA	BCTTPH
MC27780-12	SW846 8270D	27-JAN-14 15:08	KR	25-JAN-14	PA	AB8270RCP
MC27780-13	Collected: 20-JAN-14 14:00 By: CK		Received: 20-JAN-14 By:			
GP-9 1'-3'						
MC27780-13	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-13	SW846 6010C	23-JAN-14 20:56	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-13	SW846 8260C	24-JAN-14 16:13	KD			V8260RCP
MC27780-13	SW846 7471B	27-JAN-14 10:34	SA	23-JAN-14	EM	HG
MC27780-13	CT-ETPH 7/06	27-JAN-14 12:21	KN	21-JAN-14	PA	BCTTPH
MC27780-13	SW846 8270D	27-JAN-14 15:31	KR	25-JAN-14	PA	AB8270RCP
MC27780-13	SW846 8082	27-JAN-14 16:27	NK	21-JAN-14	MEW	P8082RCP
MC27780-13	SW846 8081	27-JAN-14 20:03	NK	21-JAN-14	MEW	P8081RCP
MC27780-13	SW846 8081	28-JAN-14 12:24	NK	21-JAN-14	MEW	P8081RCP
MC27780-14	Collected: 20-JAN-14 13:40 By: CK		Received: 20-JAN-14 By:			
GP-10 1'-3'						
MC27780-14	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-14	SW846 6010C	23-JAN-14 21:01	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-14	SW846 8260C	24-JAN-14 16:42	KD			V8260RCP
MC27780-14	SW846 7471B	27-JAN-14 10:36	SA	23-JAN-14	EM	HG
MC27780-14	CT-ETPH 7/06	27-JAN-14 12:49	KN	21-JAN-14	PA	BCTTPH
MC27780-14	SW846 8270D	27-JAN-14 15:54	KR	25-JAN-14	PA	AB8270RCP

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-15	Collected: 20-JAN-14 13:20 By: CK		Received: 20-JAN-14 By:			
GP-11 1'-3'						
MC27780-15	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-15	SW846 6010C	23-JAN-14 21:16	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-15	SW846 8260C	24-JAN-14 17:12	KD			V8260RCP
MC27780-15	SW846 7471B	27-JAN-14 10:39	SA	23-JAN-14	EM	HG
MC27780-15	CT-ETPH 7/06	27-JAN-14 13:18	KN	21-JAN-14	PA	BCTTPH
MC27780-15	SW846 8270D	27-JAN-14 16:17	KR	25-JAN-14	PA	AB8270RCP
MC27780-15	SW846 8082	27-JAN-14 16:46	NK	21-JAN-14	MEW	P8082RCP
MC27780-15	SW846 8081	27-JAN-14 21:08	NK	21-JAN-14	MEW	P8081RCP
MC27780-15	SW846 8081	28-JAN-14 13:41	NK	21-JAN-14	MEW	P8081RCP
MC27780-16	Collected: 20-JAN-14 13:05 By: CK		Received: 20-JAN-14 By:			
GP-12 1'-3'						
MC27780-16	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-16	SW846 6010C	23-JAN-14 21:21	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-16	SW846 8260C	24-JAN-14 17:41	KD			V8260RCP
MC27780-16	SW846 7471B	27-JAN-14 10:41	SA	23-JAN-14	EM	HG
MC27780-16	CT-ETPH 7/06	27-JAN-14 13:18	KN	21-JAN-14	PA	BCTTPH
MC27780-16	SW846 8270D	27-JAN-14 16:40	KR	25-JAN-14	PA	AB8270RCP
MC27780-17	Collected: 20-JAN-14 12:50 By: CK		Received: 20-JAN-14 By:			
GP-13 1'-3'						
MC27780-17	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-17	SW846 6010C	23-JAN-14 21:25	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-17	SW846 8260C	24-JAN-14 18:11	KD			V8260RCP
MC27780-17	SW846 7471B	27-JAN-14 10:44	SA	23-JAN-14	EM	HG
MC27780-17	CT-ETPH 7/06	27-JAN-14 11:53	KN	21-JAN-14	PA	BCTTPH
MC27780-17	SW846 8270D	27-JAN-14 17:03	KR	25-JAN-14	PA	AB8270RCP
MC27780-17	SW846 8082	27-JAN-14 17:05	NK	21-JAN-14	MEW	P8082RCP
MC27780-17	SW846 8081	27-JAN-14 21:30	NK	21-JAN-14	MEW	P8081RCP
MC27780-17	SW846 8081	28-JAN-14 14:03	NK	21-JAN-14	MEW	P8081RCP
MC27780-18	Collected: 20-JAN-14 12:35 By: CK		Received: 20-JAN-14 By:			
GP-14 1'-3'						

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-18	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-18	SW846 6010C	23-JAN-14 21:30	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-18	SW846 8260C	24-JAN-14 18:40	KD			V8260RCP
MC27780-18	SW846 7471B	27-JAN-14 10:51	SA	23-JAN-14	EM	HG
MC27780-18	CT-ETPH 7/06	27-JAN-14 12:21	KN	21-JAN-14	PA	BCTTPH
MC27780-18	SW846 8270D	27-JAN-14 17:26	KR	25-JAN-14	PA	AB8270RCP
MC27780-18	SW846 8270D	28-JAN-14 14:40	KR	25-JAN-14	PA	AB8270RCP
MC27780-19	Collected: 20-JAN-14 12:10 By: CK		Received: 20-JAN-14 By:			
GP-15 1'-3'						
MC27780-19	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-19	SW846 6010C	23-JAN-14 21:35	EAL	23-JAN-14	EM	AG,AS,BA,CD,CR,PB,SE
MC27780-19	SW846 8260C	24-JAN-14 19:10	KD			V8260RCP
MC27780-19	SW846 7471B	27-JAN-14 10:54	SA	23-JAN-14	EM	HG
MC27780-19	CT-ETPH 7/06	27-JAN-14 13:19	KN	21-JAN-14	PA	BCTTPH
MC27780-19	SW846 8082	27-JAN-14 17:24	NK	21-JAN-14	MEW	P8082RCP
MC27780-19	SW846 8270D	27-JAN-14 17:49	KR	25-JAN-14	PA	AB8270RCP
MC27780-19	SW846 8081	27-JAN-14 21:52	NK	21-JAN-14	MEW	P8081RCP
MC27780-19	SW846 8081	28-JAN-14 14:25	NK	21-JAN-14	MEW	P8081RCP
MC27780-1A	Collected: 20-JAN-14 06:05 By: CK		Received: 20-JAN-14 By:			
SED-1						
MC27780-1A	SW846 6010C	24-JAN-14 04:06	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-1A	SW846 7470A	24-JAN-14 13:25	SA	23-JAN-14	EM	EHG
MC27780-20	Collected: 20-JAN-14 11:55 By: CK		Received: 20-JAN-14 By:			
GP-16 1'-3'						
MC27780-20	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-20	SW846 6010C	24-JAN-14 18:27	EAL	24-JAN-14	MA	AG,AS,BA,CD,CR,PB,SE
MC27780-20	SW846 8260C	24-JAN-14 19:40	KD			V8260RCP
MC27780-20	CT-ETPH 7/06	27-JAN-14 10:41	KN	21-JAN-14	PA	BCTTPH
MC27780-20	SW846 7471B	27-JAN-14 10:56	SA	23-JAN-14	EM	HG
MC27780-20	SW846 8270D	27-JAN-14 18:12	KR	25-JAN-14	PA	AB8270RCP
MC27780-21	Collected: 20-JAN-14 11:35 By: CK		Received: 20-JAN-14 By:			
GP-17 1'-3'						

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-21	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-21	SW846 8270D	24-JAN-14 16:23	WK	21-JAN-14	FC	AB8270RCP
MC27780-21	SW846 6010C	24-JAN-14 18:32	EAL	24-JAN-14	MA	AG,AS,BA,CD,CR,PB,SE
MC27780-21	SW846 8260C	26-JAN-14 13:31	KD			V8260RCP
MC27780-21	SW846 7471B	27-JAN-14 10:59	SA	23-JAN-14	EM	HG
MC27780-21	CT-ETPH 7/06	27-JAN-14 14:15	KN	21-JAN-14	FC	BCTTPH
MC27780-22	Collected: 20-JAN-14 11:15 By: CK Received: 20-JAN-14 By: GP-18 1'-3'					
MC27780-22	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-22	SW846 8270D	24-JAN-14 16:46	WK	21-JAN-14	FC	AB8270RCP
MC27780-22	CT-ETPH 7/06	24-JAN-14 17:20	KN	21-JAN-14	FC	BCTTPH
MC27780-22	SW846 6010C	24-JAN-14 17:24	EAL	24-JAN-14	MA	AG,AS,BA,CD,CR,PB,SE
MC27780-22	SW846 8260C	26-JAN-14 14:00	KD			V8260RCP
MC27780-22	SW846 7471B	27-JAN-14 10:04	SA	23-JAN-14	EM	HG
MC27780-22	SW846 8082	27-JAN-14 17:43	NK	21-JAN-14	MEW	P8082RCP
MC27780-22	SW846 8081	27-JAN-14 22:14	NK	21-JAN-14	MEW	P8081RCP
MC27780-23	Collected: 20-JAN-14 10:50 By: CK Received: 20-JAN-14 By: GP-19 1'-3'					
MC27780-23	SM21 2540 B MOD.	21-JAN-14	MC			%SOL
MC27780-23	CT-ETPH 7/06	24-JAN-14 11:57	KN	21-JAN-14	FC	BCTTPH
MC27780-23	SW846 8270D	24-JAN-14 17:09	WK	21-JAN-14	FC	AB8270RCP
MC27780-23	SW846 6010C	24-JAN-14 18:37	EAL	24-JAN-14	MA	AG,AS,BA,CD,CR,PB,SE
MC27780-23	SW846 8260C	26-JAN-14 14:30	KD			V8260RCP
MC27780-23	SW846 7471B	27-JAN-14 11:01	SA	23-JAN-14	EM	HG
MC27780-2A	Collected: 20-JAN-14 06:35 By: CK Received: 20-JAN-14 By: SED-2					
MC27780-2A	SW846 6010C	24-JAN-14 04:26	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-2A	SW846 7470A	24-JAN-14 13:28	SA	23-JAN-14	EM	EHG
MC27780-3A	Collected: 20-JAN-14 07:00 By: CK Received: 20-JAN-14 By: SED-3					
MC27780-3A	SW846 6010C	24-JAN-14 04:31	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-3A	SW846 7470A	24-JAN-14 13:30	SA	23-JAN-14	EM	EHG

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-4A SED-4	Collected: 20-JAN-14 07:20 By: CK		Received: 20-JAN-14 By:			
MC27780-4A	SW846 6010C	24-JAN-14 04:46	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-4A	SW846 7470A	24-JAN-14 13:32	SA	23-JAN-14	EM	EHG
MC27780-5A GP-1 1'-3'	Collected: 20-JAN-14 07:40 By: CK		Received: 20-JAN-14 By:			
MC27780-5A	SW846 6010C	24-JAN-14 04:50	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-5A	SW846 7470A	24-JAN-14 13:35	SA	23-JAN-14	EM	EHG
MC27780-6A GP-2 1'-3'	Collected: 20-JAN-14 08:00 By: CK		Received: 20-JAN-14 By:			
MC27780-6A	SW846 6010C	24-JAN-14 04:55	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-6A	SW846 7470A	24-JAN-14 13:42	SA	23-JAN-14	EM	EHG
MC27780-7A GP-3 1'-3'	Collected: 20-JAN-14 08:20 By: CK		Received: 20-JAN-14 By:			
MC27780-7A	SW846 6010C	24-JAN-14 05:00	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-7A	SW846 7470A	24-JAN-14 13:45	SA	23-JAN-14	EM	EHG
MC27780-8A GP-4 1'-3'	Collected: 20-JAN-14 08:45 By: CK		Received: 20-JAN-14 By:			
MC27780-8A	SW846 6010C	24-JAN-14 05:05	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-8A	SW846 7470A	24-JAN-14 13:47	SA	23-JAN-14	EM	EHG
MC27780-9A GP-5 1'-3'	Collected: 20-JAN-14 09:00 By: CK		Received: 20-JAN-14 By:			
MC27780-9A	SW846 6010C	24-JAN-14 05:10	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-9A	SW846 7470A	24-JAN-14 13:49	SA	23-JAN-14	EM	EHG
MC27780-10A GP-6 1'-3'	Collected: 20-JAN-14 09:15 By: CK		Received: 20-JAN-14 By:			

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-10	SW846 6010C	24-JAN-14 05:15	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-10	SW846 7470A	24-JAN-14 13:52	SA	23-JAN-14	EM	EHG
MC27780-11	Collected: 20-JAN-14 09:50 By: CK		Received: 20-JAN-14 By:			
GP-7 1'-3'						
MC27780-11	SW846 6010C	24-JAN-14 05:20	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-11	SW846 7470A	24-JAN-14 13:55	SA	23-JAN-14	EM	EHG
MC27780-12	Collected: 20-JAN-14 10:20 By: CK		Received: 20-JAN-14 By:			
GP-8 1'-3'						
MC27780-12	SW846 6010C	24-JAN-14 05:25	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-12	SW846 7470A	24-JAN-14 13:57	SA	23-JAN-14	EM	EHG
MC27780-13	Collected: 20-JAN-14 14:00 By: CK		Received: 20-JAN-14 By:			
GP-9 1'-3'						
MC27780-13	SW846 6010C	24-JAN-14 05:30	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-13	SW846 7470A	24-JAN-14 14:00	SA	23-JAN-14	EM	EHG
MC27780-14	Collected: 20-JAN-14 13:40 By: CK		Received: 20-JAN-14 By:			
GP-10 1'-3'						
MC27780-14	SW846 6010C	24-JAN-14 05:44	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-14	SW846 7470A	24-JAN-14 14:02	SA	23-JAN-14	EM	EHG
MC27780-15	Collected: 20-JAN-14 13:20 By: CK		Received: 20-JAN-14 By:			
GP-11 1'-3'						
MC27780-15	SW846 6010C	24-JAN-14 05:49	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-15	SW846 7470A	24-JAN-14 14:05	SA	23-JAN-14	EM	EHG
MC27780-16	Collected: 20-JAN-14 13:05 By: CK		Received: 20-JAN-14 By:			
GP-12 1'-3'						
MC27780-16	SW846 6010C	24-JAN-14 05:54	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-16	SW846 7470A	24-JAN-14 14:13	SA	23-JAN-14	EM	EHG

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-17	Collected: 20-JAN-14 12:50 By: CK		Received: 20-JAN-14 By:			
GP-13 1'-3'						
MC27780-17S	SW846 6010C	24-JAN-14 05:59	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-17S	SW846 7470A	24-JAN-14 14:15	SA	23-JAN-14	EM	EHG
MC27780-18	Collected: 20-JAN-14 12:35 By: CK		Received: 20-JAN-14 By:			
GP-14 1'-3'						
MC27780-18S	SW846 6010C	24-JAN-14 06:04	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-18S	SW846 7470A	24-JAN-14 14:18	SA	23-JAN-14	EM	EHG
MC27780-19	Collected: 20-JAN-14 12:10 By: CK		Received: 20-JAN-14 By:			
GP-15 1'-3'						
MC27780-19S	SW846 6010C	24-JAN-14 06:09	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-19S	SW846 7470A	24-JAN-14 14:20	SA	23-JAN-14	EM	EHG
MC27780-20	Collected: 20-JAN-14 11:55 By: CK		Received: 20-JAN-14 By:			
GP-16 1'-3'						
MC27780-20S	SW846 6010C	24-JAN-14 06:14	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-20S	SW846 7470A	24-JAN-14 14:23	SA	23-JAN-14	EM	EHG
MC27780-21	Collected: 20-JAN-14 11:35 By: CK		Received: 20-JAN-14 By:			
GP-17 1'-3'						
MC27780-21S	SW846 6010C	24-JAN-14 02:52	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-21S	SW846 7470A	24-JAN-14 12:41	SA	23-JAN-14	EM	EHG
MC27780-22	Collected: 20-JAN-14 11:15 By: CK		Received: 20-JAN-14 By:			
GP-18 1'-3'						
MC27780-22S	SW846 6010C	24-JAN-14 02:57	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-22S	SW846 7470A	24-JAN-14 12:43	SA	23-JAN-14	EM	EHG
MC27780-23	Collected: 20-JAN-14 10:50 By: CK		Received: 20-JAN-14 By:			
GP-19 1'-3'						

Internal Sample Tracking Chronicle

CDR Maguire

Job No: MC27780

Bridge 1358-Rte 139 Over Branford River, Branford, CT
Project No: 14-179

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC27780-23	SW846 6010C	24-JAN-14 03:12	EAL	23-JAN-14	MA	EAG,EAS,EBA,ECD,ECR,EPB,ESE
MC27780-23	SW846 7470A	24-JAN-14 12:46	SA	23-JAN-14	EM	EHG

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2204-MB	M62908.D	1	01/24/14	KD	n/a	n/a	MSM2204

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	25	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	2.0	ug/kg	
74-83-9	Bromomethane	ND	2.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2204-MB	M62908.D	1	01/24/14	KD	n/a	n/a	MSM2204

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	2.0	ug/kg	
95-47-6	o-Xylene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2204-MB	M62908.D	1	01/24/14	KD	n/a	n/a	MSM2204

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	70-130%
2037-26-5	Toluene-D8	89%	70-130%
460-00-4	4-Bromofluorobenzene	82%	70-130%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2205-MB	M62937.D	1	01/26/14	KD	n/a	n/a	MSM2205

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	25	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	2.0	ug/kg	
74-83-9	Bromomethane	ND	2.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2205-MB	M62937.D	1	01/26/14	KD	n/a	n/a	MSM2205

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	2.0	ug/kg	
95-47-6	o-Xylene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2205-MB	M62937.D	1	01/26/14	KD	n/a	n/a	MSM2205

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-21, MC27780-22, MC27780-23

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	88%	70-130%
2037-26-5	Toluene-D8	87%	70-130%
460-00-4	4-Bromofluorobenzene	86%	70-130%

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2204-BS	M62905.D	1	01/24/14	KD	n/a	n/a	MSM2204

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	66.0	132* [a]	70-130
107-13-1	Acrylonitrile	100	116	116	70-130
71-43-2	Benzene	50	55.4	111	70-130
108-86-1	Bromobenzene	50	50.1	100	70-130
75-27-4	Bromodichloromethane	50	60.9	122	70-130
75-25-2	Bromoform	50	48.4	97	70-130
74-83-9	Bromomethane	50	56.3	113	70-130
78-93-3	2-Butanone (MEK)	50	51.0	102	70-130
104-51-8	n-Butylbenzene	50	49.6	99	70-130
135-98-8	sec-Butylbenzene	50	48.6	97	70-130
98-06-6	tert-Butylbenzene	50	50.0	100	70-130
75-15-0	Carbon disulfide	50	54.7	109	70-130
56-23-5	Carbon tetrachloride	50	61.0	122	70-130
108-90-7	Chlorobenzene	50	47.5	95	70-130
75-00-3	Chloroethane	50	62.4	125	70-130
67-66-3	Chloroform	50	59.1	118	70-130
74-87-3	Chloromethane	50	57.7	115	70-130
95-49-8	o-Chlorotoluene	50	46.5	93	70-130
106-43-4	p-Chlorotoluene	50	49.3	99	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	48.3	97	70-130
124-48-1	Dibromochloromethane	50	50.4	101	70-130
106-93-4	1,2-Dibromoethane	50	48.1	96	70-130
95-50-1	1,2-Dichlorobenzene	50	48.5	97	70-130
541-73-1	1,3-Dichlorobenzene	50	48.7	97	70-130
106-46-7	1,4-Dichlorobenzene	50	49.7	99	70-130
75-71-8	Dichlorodifluoromethane	50	50.5	101	70-130
75-34-3	1,1-Dichloroethane	50	60.2	120	70-130
107-06-2	1,2-Dichloroethane	50	59.7	119	70-130
75-35-4	1,1-Dichloroethene	50	54.4	109	70-130
156-59-2	cis-1,2-Dichloroethene	50	57.1	114	70-130
156-60-5	trans-1,2-Dichloroethene	50	57.5	115	70-130
78-87-5	1,2-Dichloropropane	50	56.8	114	70-130
142-28-9	1,3-Dichloropropane	50	47.3	95	70-130
594-20-7	2,2-Dichloropropane	50	62.0	124	70-130
563-58-6	1,1-Dichloropropene	50	58.7	117	70-130
10061-01-5	cis-1,3-Dichloropropene	50	56.7	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2204-BS	M62905.D	1	01/24/14	KD	n/a	n/a	MSM2204

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	61.9	124	70-130
100-41-4	Ethylbenzene	50	49.2	98	70-130
76-13-1	Freon 113	50	54.0	108	70-130
87-68-3	Hexachlorobutadiene	50	49.7	99	70-130
591-78-6	2-Hexanone	50	40.0	80	70-130
98-82-8	Isopropylbenzene	50	49.8	100	70-130
99-87-6	p-Isopropyltoluene	50	50.2	100	70-130
1634-04-4	Methyl Tert Butyl Ether	50	59.4	119	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.9	114	70-130
74-95-3	Methylene bromide	50	57.4	115	70-130
75-09-2	Methylene chloride	50	63.0	126	70-130
91-20-3	Naphthalene	50	51.4	103	70-130
103-65-1	n-Propylbenzene	50	46.8	94	70-130
100-42-5	Styrene	50	50.4	101	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	50.5	101	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	49.0	98	70-130
127-18-4	Tetrachloroethene	50	48.0	96	70-130
109-99-9	Tetrahydrofuran	50	53.8	108	70-130
108-88-3	Toluene	50	58.0	116	70-130
110-57-6	Trans-1,4-Dichloro-2-Butene	50	47.2	94	70-130
87-61-6	1,2,3-Trichlorobenzene	50	50.3	101	70-130
120-82-1	1,2,4-Trichlorobenzene	50	50.3	101	70-130
71-55-6	1,1,1-Trichloroethane	50	59.4	119	70-130
79-00-5	1,1,2-Trichloroethane	50	55.9	112	70-130
79-01-6	Trichloroethene	50	56.5	113	70-130
75-69-4	Trichlorofluoromethane	50	54.2	108	70-130
96-18-4	1,2,3-Trichloropropane	50	49.6	99	70-130
95-63-6	1,2,4-Trimethylbenzene	50	49.2	98	70-130
108-67-8	1,3,5-Trimethylbenzene	50	50.7	101	70-130
75-01-4	Vinyl chloride	50	57.1	114	70-130
	m,p-Xylene	100	98.8	99	70-130
95-47-6	o-Xylene	50	48.9	98	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2204-BS	M62905.D	1	01/24/14	KD	n/a	n/a	MSM2204

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	70-130%
2037-26-5	Toluene-D8	88%	70-130%
460-00-4	4-Bromofluorobenzene	83%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2205-BS	M62935.D	1	01/26/14	KD	n/a	n/a	MSM2205

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	62.7	125	70-130
107-13-1	Acrylonitrile	100	99.3	99	70-130
71-43-2	Benzene	50	57.3	115	70-130
108-86-1	Bromobenzene	50	52.2	104	70-130
75-27-4	Bromodichloromethane	50	62.5	125	70-130
75-25-2	Bromoform	50	49.0	98	70-130
74-83-9	Bromomethane	50	38.5	77	70-130
78-93-3	2-Butanone (MEK)	50	60.0	120	70-130
104-51-8	n-Butylbenzene	50	52.0	104	70-130
135-98-8	sec-Butylbenzene	50	50.9	102	70-130
98-06-6	tert-Butylbenzene	50	52.7	105	70-130
75-15-0	Carbon disulfide	50	53.7	107	70-130
56-23-5	Carbon tetrachloride	50	59.6	119	70-130
108-90-7	Chlorobenzene	50	48.1	96	70-130
75-00-3	Chloroethane	50	50.5	101	70-130
67-66-3	Chloroform	50	59.5	119	70-130
74-87-3	Chloromethane	50	41.0	82	70-130
95-49-8	o-Chlorotoluene	50	50.5	101	70-130
106-43-4	p-Chlorotoluene	50	53.0	106	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	47.6	95	70-130
124-48-1	Dibromochloromethane	50	50.3	101	70-130
106-93-4	1,2-Dibromoethane	50	47.6	95	70-130
95-50-1	1,2-Dichlorobenzene	50	49.5	99	70-130
541-73-1	1,3-Dichlorobenzene	50	50.9	102	70-130
106-46-7	1,4-Dichlorobenzene	50	52.8	106	70-130
75-71-8	Dichlorodifluoromethane	50	34.5	69* [a]	70-130
75-34-3	1,1-Dichloroethane	50	60.4	121	70-130
107-06-2	1,2-Dichloroethane	50	60.3	121	70-130
75-35-4	1,1-Dichloroethene	50	59.1	118	70-130
156-59-2	cis-1,2-Dichloroethene	50	59.0	118	70-130
156-60-5	trans-1,2-Dichloroethene	50	60.1	120	70-130
78-87-5	1,2-Dichloropropane	50	57.6	115	70-130
142-28-9	1,3-Dichloropropane	50	49.4	99	70-130
594-20-7	2,2-Dichloropropane	50	62.9	126	70-130
563-58-6	1,1-Dichloropropene	50	60.0	120	70-130
10061-01-5	cis-1,3-Dichloropropene	50	57.9	116	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2205-BS	M62935.D	1	01/26/14	KD	n/a	n/a	MSM2205

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	63.1	126	70-130
100-41-4	Ethylbenzene	50	50.3	101	70-130
76-13-1	Freon 113	50	61.7	123	70-130
87-68-3	Hexachlorobutadiene	50	50.3	101	70-130
591-78-6	2-Hexanone	50	42.9	86	70-130
98-82-8	Isopropylbenzene	50	52.4	105	70-130
99-87-6	p-Isopropyltoluene	50	51.1	102	70-130
1634-04-4	Methyl Tert Butyl Ether	50	61.2	122	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	59.5	119	70-130
74-95-3	Methylene bromide	50	59.5	119	70-130
75-09-2	Methylene chloride	50	55.5	111	70-130
91-20-3	Naphthalene	50	54.0	108	70-130
103-65-1	n-Propylbenzene	50	49.0	98	70-130
100-42-5	Styrene	50	51.2	102	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	50.9	102	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.7	101	70-130
127-18-4	Tetrachloroethene	50	47.4	95	70-130
109-99-9	Tetrahydrofuran	50	57.5	115	70-130
108-88-3	Toluene	50	60.8	122	70-130
110-57-6	Trans-1,4-Dichloro-2-Butene	50	49.3	99	70-130
87-61-6	1,2,3-Trichlorobenzene	50	52.5	105	70-130
120-82-1	1,2,4-Trichlorobenzene	50	52.6	105	70-130
71-55-6	1,1,1-Trichloroethane	50	60.0	120	70-130
79-00-5	1,1,2-Trichloroethane	50	59.5	119	70-130
79-01-6	Trichloroethene	50	59.2	118	70-130
75-69-4	Trichlorofluoromethane	50	46.3	93	70-130
96-18-4	1,2,3-Trichloropropane	50	51.6	103	70-130
95-63-6	1,2,4-Trimethylbenzene	50	52.0	104	70-130
108-67-8	1,3,5-Trimethylbenzene	50	52.3	105	70-130
75-01-4	Vinyl chloride	50	40.9	82	70-130
	m,p-Xylene	100	99.8	100	70-130
95-47-6	o-Xylene	50	49.3	99	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2205-BS	M62935.D	1	01/26/14	KD	n/a	n/a	MSM2205

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC27780-21, MC27780-22, MC27780-23

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	85%	70-130%
2037-26-5	Toluene-D8	89%	70-130%
460-00-4	4-Bromofluorobenzene	87%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Check Std:	MSM2204-CC2195	**Injection Date:**	01/24/14
Lab File ID:	M62905.D	**Injection Time:**	08:20
Instrument ID:	GCMSM	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	197712	9.34	284506	10.22	145195	13.50	203510	16.06	69229	6.84
Upper Limit [a]	395424	9.84	569012	10.72	290390	14.00	407020	16.56	138458	7.34
Lower Limit [b]	98856	8.84	142253	9.72	72598	13.00	101755	15.56	34615	6.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSM2204-BS	197712	9.34	284506	10.22	145195	13.50	203510	16.06	69229	6.84
MSM2204-MB	196839	9.35	279250	10.22	129190	13.50	184185	16.06	45622	6.84
MC27780-1	196939	9.34	283581	10.23	137153	13.50	195062	16.06	114660	6.84
MC27780-2	189712	9.35	274353	10.23	129242	13.51	179494	16.06	105641	6.84
MC27780-3	193744	9.35	276247	10.22	131692	13.50	184998	16.06	102382	6.83
MC27780-4	187372	9.35	265234	10.23	126819	13.50	175117	16.06	117764	6.84
MC27780-5	183631	9.35	264823	10.22	129168	13.51	179927	16.06	131890	6.84
MC27780-6	185101	9.35	269899	10.22	129299	13.50	181469	16.06	142018[c]	6.83
MC27780-7	191721	9.35	270413	10.22	128370	13.50	182502	16.06	125551	6.84
MC27780-8	186744	9.35	266659	10.22	126199	13.50	171595	16.06	128034	6.84
MC27780-9	182145	9.34	265099	10.22	125687	13.50	176635	16.06	127633	6.83
MC27780-10	187948	9.35	268236	10.22	128022	13.50	173630	16.06	127625	6.84
MC27780-11	180754	9.35	258847	10.22	126734	13.50	183137	16.06	133884	6.83
MC27780-12	184279	9.35	266542	10.23	125804	13.50	178934	16.06	137279	6.85
MC27780-13	179979	9.35	258395	10.22	123920	13.51	167796	16.06	126820	6.84
MC27780-14	180199	9.34	258004	10.22	124763	13.50	176304	16.06	127172	6.83
MC27780-15	180465	9.35	256514	10.23	125178	13.50	179688	16.06	123618	6.84
MC27780-16	175537	9.34	256573	10.22	122698	13.50	177418	16.06	116412	6.84
MC27780-17	186619	9.35	258263	10.22	123241	13.50	180118	16.06	118115	6.83
MC27780-18	180768	9.35	260920	10.23	123909	13.51	176525	16.06	118568	6.84
MC27780-19	180583	9.34	257258	10.22	122364	13.50	176918	16.06	117681	6.84
MC27780-20	177098	9.35	256172	10.23	125035	13.51	179478	16.06	125782	6.84

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Internal Standard Area Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Check Std:	MSM2205-CC2195	**Injection Date:**	01/26/14
Lab File ID:	M62933.D	**Injection Time:**	11:04
Instrument ID:	GCMSM	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	226812	9.35	332587	10.23	170266	13.51	231577	16.06	86611	6.84
Upper Limit [a]	453624	9.85	665174	10.73	340532	14.01	463154	16.56	173222	7.34
Lower Limit [b]	113406	8.85	166294	9.73	85133	13.01	115789	15.56	43306	6.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSM2205-BS	239851	9.35	346560	10.23	180605	13.50	241682	16.06	90720	6.84
MSM2205-MB	226257	9.35	325936	10.23	154772	13.50	217566	16.06	84042	6.84
MC27780-21	228941	9.35	334011	10.23	157498	13.51	224530	16.07	157011	6.84
MC27780-22	216653	9.35	319301	10.23	153554	13.51	222108	16.06	158333	6.83
MC27780-23	220661	9.35	309496	10.23	149536	13.50	220313	16.06	161727	6.84
ZZZZZZ	206675	9.35	302901	10.23	145703	13.50	213522	16.06	133296	6.84
ZZZZZZ	211377	9.35	304148	10.23	149238	13.50	210123	16.06	133983	6.84
ZZZZZZ	215464	9.35	303850	10.23	149470	13.50	212591	16.06	136355	6.84
ZZZZZZ	212668	9.35	307728	10.23	145473	13.51	215100	16.06	149152	6.84
ZZZZZZ	204075	9.35	293568	10.23	140772	13.51	208277	16.06	141905	6.84
ZZZZZZ	207029	9.35	298737	10.23	142725	13.50	214949	16.06	130672	6.84
ZZZZZZ	183539	9.34	264708	10.23	128376	13.51	185909	16.06	132395	6.83
ZZZZZZ	219632	9.34	303260	10.22	144919	13.50	207959	16.06	143298	6.83
ZZZZZZ	213146	9.35	296018	10.22	142883	13.51	215033	16.06	133823	6.84
ZZZZZZ	218023	9.35	306788	10.22	148556	13.50	214635	16.06	151570	6.84
ZZZZZZ	213836	9.35	303300	10.23	145009	13.51	211412	16.06	137487	6.84
ZZZZZZ	207129	9.35	294664	10.23	143358	13.50	207553	16.06	144000	6.84
ZZZZZZ	185073	9.35	267127	10.23	127987	13.50	190698	16.06	137721	6.84
ZZZZZZ	184960	9.34	260314	10.22	128416	13.50	192097	16.06	132943	6.83
ZZZZZZ	208903	9.35	293149	10.23	144707	13.50	208268	16.06	131665	6.84

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC27780-1	M62909.D	90.0	88.0	85.0
MC27780-2	M62910.D	90.0	88.0	88.0
MC27780-3	M62911.D	89.0	89.0	87.0
MC27780-4	M62912.D	92.0	90.0	90.0
MC27780-5	M62913.D	93.0	90.0	86.0
MC27780-6	M62914.D	91.0	87.0	86.0
MC27780-7	M62915.D	87.0	89.0	87.0
MC27780-8	M62916.D	88.0	87.0	88.0
MC27780-9	M62917.D	94.0	87.0	86.0
MC27780-10	M62918.D	91.0	87.0	88.0
MC27780-11	M62919.D	93.0	88.0	84.0
MC27780-12	M62920.D	89.0	87.0	86.0
MC27780-13	M62921.D	91.0	90.0	90.0
MC27780-14	M62922.D	93.0	89.0	87.0
MC27780-15	M62923.D	91.0	88.0	84.0
MC27780-16	M62924.D	92.0	87.0	84.0
MC27780-17	M62925.D	88.0	89.0	86.0
MC27780-18	M62926.D	90.0	88.0	87.0
MC27780-19	M62927.D	90.0	87.0	86.0
MC27780-20	M62928.D	92.0	89.0	83.0
MC27780-21	M62938.D	89.0	89.0	88.0
MC27780-22	M62939.D	92.0	89.0	85.0
MC27780-23	M62940.D	90.0	92.0	84.0
MSM2204-BS	M62905.D	87.0	88.0	83.0
MSM2204-MB	M62908.D	86.0	89.0	82.0
MSM2205-BS	M62935.D	85.0	89.0	87.0
MSM2205-MB	M62937.D	88.0	87.0	86.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

New England ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36617-MB	R36687.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	240	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	480	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	480	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	480	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	960	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	480	ug/kg	
95-48-7	2-Methylphenol	ND	480	ug/kg	
106-44-5	4-Methylphenol	ND	480	ug/kg	
88-75-5	2-Nitrophenol	ND	480	ug/kg	
100-02-7	4-Nitrophenol	ND	960	ug/kg	
87-86-5	Pentachlorophenol	ND	480	ug/kg	
108-95-2	Phenol	ND	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	480	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	480	ug/kg	
83-32-9	Acenaphthene	ND	96	ug/kg	
208-96-8	Acenaphthylene	ND	96	ug/kg	
62-53-3	Aniline	ND	480	ug/kg	
120-12-7	Anthracene	ND	96	ug/kg	
56-55-3	Benzo(a)anthracene	ND	96	ug/kg	
50-32-8	Benzo(a)pyrene	ND	96	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	96	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	96	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	96	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	240	ug/kg	
91-58-7	2-Chloronaphthalene	ND	240	ug/kg	
106-47-8	4-Chloroaniline	ND	480	ug/kg	
86-74-8	Carbazole	ND	96	ug/kg	
218-01-9	Chrysene	ND	96	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	480	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	480	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	ug/kg	

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36617-MB	R36687.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Result	RL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	96	ug/kg	
132-64-9	Dibenzofuran	ND	96	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	240	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	ug/kg	
84-66-2	Diethyl phthalate	ND	240	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	240	ug/kg	
206-44-0	Fluoranthene	ND	96	ug/kg	
86-73-7	Fluorene	ND	96	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	480	ug/kg	
67-72-1	Hexachloroethane	ND	240	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	96	ug/kg	
78-59-1	Isophorone	ND	240	ug/kg	
91-57-6	2-Methylnaphthalene	ND	96	ug/kg	
88-74-4	2-Nitroaniline	ND	480	ug/kg	
99-09-2	3-Nitroaniline	ND	480	ug/kg	
100-01-6	4-Nitroaniline	ND	480	ug/kg	
91-20-3	Naphthalene	ND	96	ug/kg	
98-95-3	Nitrobenzene	ND	240	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	480	ug/kg	
85-01-8	Phenanthrene	ND	96	ug/kg	
129-00-0	Pyrene	ND	96	ug/kg	
110-86-1	Pyridine	ND	480	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	480	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	52%	30-130%
4165-62-2	Phenol-d5	52%	30-130%
118-79-6	2,4,6-Tribromophenol	56%	30-130%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36617-MB	R36687.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-21, MC27780-22, MC27780-23

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	60%	30-130%
321-60-8	2-Fluorobiphenyl	51%	30-130%
1718-51-0	Terphenyl-d14	72%	30-130%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36612-MB	F71361.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-1, MC27780-2, MC27780-3, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	250	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	500	ug/kg	
95-48-7	2-Methylphenol	ND	500	ug/kg	
106-44-5	4-Methylphenol	ND	500	ug/kg	
88-75-5	2-Nitrophenol	ND	500	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	500	ug/kg	
108-95-2	Phenol	ND	250	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	500	ug/kg	
83-32-9	Acenaphthene	ND	99	ug/kg	
208-96-8	Acenaphthylene	ND	99	ug/kg	
62-53-3	Aniline	ND	500	ug/kg	
120-12-7	Anthracene	ND	99	ug/kg	
56-55-3	Benzo(a)anthracene	ND	99	ug/kg	
50-32-8	Benzo(a)pyrene	ND	99	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	99	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	99	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	99	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	ug/kg	
85-68-7	Butyl benzyl phthalate	10.5	250	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	250	ug/kg	
106-47-8	4-Chloroaniline	ND	500	ug/kg	
86-74-8	Carbazole	ND	99	ug/kg	
218-01-9	Chrysene	ND	99	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	ug/kg	

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36612-MB	F71361.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-1, MC27780-2, MC27780-3, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Result	RL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	99	ug/kg	
132-64-9	Dibenzofuran	ND	99	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	ug/kg	
84-66-2	Diethyl phthalate	ND	250	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	250	ug/kg	
206-44-0	Fluoranthene	ND	99	ug/kg	
86-73-7	Fluorene	ND	99	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	500	ug/kg	
67-72-1	Hexachloroethane	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	99	ug/kg	
78-59-1	Isophorone	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	ND	99	ug/kg	
88-74-4	2-Nitroaniline	ND	500	ug/kg	
99-09-2	3-Nitroaniline	ND	500	ug/kg	
100-01-6	4-Nitroaniline	ND	500	ug/kg	
91-20-3	Naphthalene	ND	99	ug/kg	
98-95-3	Nitrobenzene	ND	250	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	500	ug/kg	
85-01-8	Phenanthrene	ND	99	ug/kg	
129-00-0	Pyrene	ND	99	ug/kg	
110-86-1	Pyridine	ND	500	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	83%	30-130%
4165-62-2	Phenol-d5	82%	30-130%
118-79-6	2,4,6-Tribromophenol	97%	30-130%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36612-MB	F71361.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-1, MC27780-2, MC27780-3, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	69%	30-130%
321-60-8	2-Fluorobiphenyl	83%	30-130%
1718-51-0	Terphenyl-d14	90%	30-130%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36688-MB	W17433.D	1	01/29/14	KR	01/28/14	OP36688	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-4

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	250	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	500	ug/kg	
95-48-7	2-Methylphenol	ND	500	ug/kg	
106-44-5	4-Methylphenol	ND	500	ug/kg	
88-75-5	2-Nitrophenol	ND	500	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	500	ug/kg	
108-95-2	Phenol	ND	250	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	500	ug/kg	
83-32-9	Acenaphthene	ND	99	ug/kg	
208-96-8	Acenaphthylene	ND	99	ug/kg	
62-53-3	Aniline	ND	500	ug/kg	
120-12-7	Anthracene	ND	99	ug/kg	
56-55-3	Benzo(a)anthracene	ND	99	ug/kg	
50-32-8	Benzo(a)pyrene	ND	99	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	99	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	99	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	99	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	ug/kg	
85-68-7	Butyl benzyl phthalate	21.5	250	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	250	ug/kg	
106-47-8	4-Chloroaniline	ND	500	ug/kg	
86-74-8	Carbazole	ND	99	ug/kg	
218-01-9	Chrysene	ND	99	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	ug/kg	

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36688-MB	W17433.D	1	01/29/14	KR	01/28/14	OP36688	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-4

CAS No.	Compound	Result	RL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	99	ug/kg	
132-64-9	Dibenzofuran	ND	99	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	ug/kg	
84-66-2	Diethyl phthalate	ND	250	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	30.0	250	ug/kg	J
206-44-0	Fluoranthene	ND	99	ug/kg	
86-73-7	Fluorene	ND	99	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	500	ug/kg	
67-72-1	Hexachloroethane	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	99	ug/kg	
78-59-1	Isophorone	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	ND	99	ug/kg	
88-74-4	2-Nitroaniline	ND	500	ug/kg	
99-09-2	3-Nitroaniline	ND	500	ug/kg	
100-01-6	4-Nitroaniline	ND	500	ug/kg	
91-20-3	Naphthalene	ND	99	ug/kg	
98-95-3	Nitrobenzene	ND	250	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	500	ug/kg	
85-01-8	Phenanthrene	ND	99	ug/kg	
129-00-0	Pyrene	ND	99	ug/kg	
110-86-1	Pyridine	ND	500	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	85%	30-130%
4165-62-2	Phenol-d5	81%	30-130%
118-79-6	2,4,6-Tribromophenol	103%	30-130%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36688-MB	W17433.D	1	01/29/14	KR	01/28/14	OP36688	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-4

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	76%	30-130%
321-60-8	2-Fluorobiphenyl	81%	30-130%
1718-51-0	Terphenyl-d14	98%	30-130%

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36617-BS	R36688.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	2470	1180	48	30-130
59-50-7	4-Chloro-3-methyl phenol	2470	1420	57	30-130
120-83-2	2,4-Dichlorophenol	2470	1240	50	30-130
105-67-9	2,4-Dimethylphenol	2470	1360	55	30-130
51-28-5	2,4-Dinitrophenol	2470	152	6* [a]	30-130
534-52-1	4,6-Dinitro-o-cresol	2470	477	19* [a]	30-130
95-48-7	2-Methylphenol	2470	1230	50	30-130
106-44-5	4-Methylphenol	4940	2490	50	30-130
88-75-5	2-Nitrophenol	2470	1180	48	30-130
100-02-7	4-Nitrophenol	2470	1470	60	30-130
87-86-5	Pentachlorophenol	2470	1070	43	30-130
108-95-2	Phenol	2470	1250	51	30-130
95-95-4	2,4,5-Trichlorophenol	2470	1230	50	30-130
88-06-2	2,4,6-Trichlorophenol	2470	1200	49	30-130
83-32-9	Acenaphthene	2470	1530	62	40-140
208-96-8	Acenaphthylene	2470	1170	47	40-140
62-53-3	Aniline	2470	720	29* [a]	40-140
120-12-7	Anthracene	2470	1610	65	40-140
56-55-3	Benzo(a)anthracene	2470	1740	70	40-140
50-32-8	Benzo(a)pyrene	2470	1440	58	40-140
205-99-2	Benzo(b)fluoranthene	2470	1570	64	40-140
191-24-2	Benzo(g,h,i)perylene	2470	1570	64	40-140
207-08-9	Benzo(k)fluoranthene	2470	1910	77	40-140
101-55-3	4-Bromophenyl phenyl ether	2470	1580	64	40-140
85-68-7	Butyl benzyl phthalate	2470	1910	77	40-140
91-58-7	2-Chloronaphthalene	2470	1450	59	40-140
106-47-8	4-Chloroaniline	2470	879	36* [a]	40-140
86-74-8	Carbazole	2470	1720	70	40-140
218-01-9	Chrysene	2470	1640	66	40-140
111-91-1	bis(2-Chloroethoxy)methane	2470	1360	55	40-140
111-44-4	bis(2-Chloroethyl)ether	2470	1460	59	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2470	1450	59	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2470	1580	64	40-140
121-14-2	2,4-Dinitrotoluene	2470	1610	65	40-140
606-20-2	2,6-Dinitrotoluene	2470	1450	59	40-140
91-94-1	3,3'-Dichlorobenzidine	2470	1250	51	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36617-BS	R36688.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	2470	1680	68	40-140
132-64-9	Dibenzofuran	2470	1490	60	40-140
84-74-2	Di-n-butyl phthalate	2470	1690	68	40-140
117-84-0	Di-n-octyl phthalate	2470	2010	81	40-140
84-66-2	Diethyl phthalate	2470	1700	69	40-140
131-11-3	Dimethyl phthalate	2470	1620	66	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2470	1930	78	40-140
206-44-0	Fluoranthene	2470	1700	69	40-140
86-73-7	Fluorene	2470	1620	66	40-140
118-74-1	Hexachlorobenzene	2470	1620	66	40-140
87-68-3	Hexachlorobutadiene	2470	1370	55	40-140
77-47-4	Hexachlorocyclopentadiene	2470	732	30* [a]	40-140
67-72-1	Hexachloroethane	2470	1380	56	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2470	1660	67	40-140
78-59-1	Isophorone	2470	1550	63	40-140
91-57-6	2-Methylnaphthalene	2470	1360	55	40-140
88-74-4	2-Nitroaniline	2470	1520	62	40-140
99-09-2	3-Nitroaniline	2470	1200	49	40-140
100-01-6	4-Nitroaniline	2470	1440	58	40-140
91-20-3	Naphthalene	2470	1460	59	40-140
98-95-3	Nitrobenzene	2470	1570	64	40-140
621-64-7	N-Nitroso-di-n-propylamine	2470	1650	67	40-140
86-30-6	N-Nitrosodiphenylamine	2470	1540	62	40-140
82-68-8	Pentachloronitrobenzene	2470	1660	67	40-140
85-01-8	Phenanthrene	2470	1680	68	40-140
129-00-0	Pyrene	2470	1760	71	40-140
110-86-1	Pyridine	2470	969	39* [a]	40-140
95-94-3	1,2,4,5-Tetrachlorobenzene	2470	1310	53	40-140
120-82-1	1,2,4-Trichlorobenzene	2470	1400	57	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	30-130%
4165-62-2	Phenol-d5	48%	30-130%
118-79-6	2,4,6-Tribromophenol	53%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36617-BS	R36688.D	1	01/24/14	WK	01/21/14	OP36617	MSR1352

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-21, MC27780-22, MC27780-23

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	57%	30-130%
321-60-8	2-Fluorobiphenyl	48%	30-130%
1718-51-0	Terphenyl-d14	58%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36612-BS	F71362.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-1, MC27780-2, MC27780-3, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	2420	1850	77	30-130
59-50-7	4-Chloro-3-methyl phenol	2420	1910	79	30-130
120-83-2	2,4-Dichlorophenol	2420	1880	78	30-130
105-67-9	2,4-Dimethylphenol	2420	1660	69	30-130
51-28-5	2,4-Dinitrophenol	2420	2800	116	30-130
534-52-1	4,6-Dinitro-o-cresol	2420	3540	146* [a]	30-130
95-48-7	2-Methylphenol	2420	1740	72	30-130
106-44-5	4-Methylphenol	4840	3690	76	30-130
88-75-5	2-Nitrophenol	2420	2200	91	30-130
100-02-7	4-Nitrophenol	2420	1500	62	30-130
87-86-5	Pentachlorophenol	2420	2660	110	30-130
108-95-2	Phenol	2420	1800	74	30-130
95-95-4	2,4,5-Trichlorophenol	2420	2090	86	30-130
88-06-2	2,4,6-Trichlorophenol	2420	1950	81	30-130
83-32-9	Acenaphthene	2420	2150	89	40-140
208-96-8	Acenaphthylene	2420	1780	74	40-140
62-53-3	Aniline	2420	1330	55	40-140
120-12-7	Anthracene	2420	2410	100	40-140
56-55-3	Benzo(a)anthracene	2420	2690	111	40-140
50-32-8	Benzo(a)pyrene	2420	2340	97	40-140
205-99-2	Benzo(b)fluoranthene	2420	2410	100	40-140
191-24-2	Benzo(g,h,i)perylene	2420	2490	103	40-140
207-08-9	Benzo(k)fluoranthene	2420	2810	116	40-140
101-55-3	4-Bromophenyl phenyl ether	2420	2340	97	40-140
85-68-7	Butyl benzyl phthalate	2420	3020	125	40-140
91-58-7	2-Chloronaphthalene	2420	2150	89	40-140
106-47-8	4-Chloroaniline	2420	1860	77	40-140
86-74-8	Carbazole	2420	2490	103	40-140
218-01-9	Chrysene	2420	2570	106	40-140
111-91-1	bis(2-Chloroethoxy)methane	2420	1940	80	40-140
111-44-4	bis(2-Chloroethyl)ether	2420	1670	69	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2420	2480	103	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2420	1920	79	40-140
121-14-2	2,4-Dinitrotoluene	2420	2390	99	40-140
606-20-2	2,6-Dinitrotoluene	2420	2340	97	40-140
91-94-1	3,3'-Dichlorobenzidine	2420	2700	112	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36612-BS	F71362.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-1, MC27780-2, MC27780-3, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	2420	2550	105	40-140
132-64-9	Dibenzofuran	2420	1980	82	40-140
84-74-2	Di-n-butyl phthalate	2420	2520	104	40-140
117-84-0	Di-n-octyl phthalate	2420	3110	129	40-140
84-66-2	Diethyl phthalate	2420	2120	88	40-140
131-11-3	Dimethyl phthalate	2420	2260	93	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2420	3110	129	40-140
206-44-0	Fluoranthene	2420	2460	102	40-140
86-73-7	Fluorene	2420	2010	83	40-140
118-74-1	Hexachlorobenzene	2420	2370	98	40-140
87-68-3	Hexachlorobutadiene	2420	1660	69	40-140
77-47-4	Hexachlorocyclopentadiene	2420	1080	45	40-140
67-72-1	Hexachloroethane	2420	1510	62	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2420	2520	104	40-140
78-59-1	Isophorone	2420	1930	80	40-140
91-57-6	2-Methylnaphthalene	2420	2000	83	40-140
88-74-4	2-Nitroaniline	2420	2370	98	40-140
99-09-2	3-Nitroaniline	2420	2250	93	40-140
100-01-6	4-Nitroaniline	2420	2300	95	40-140
91-20-3	Naphthalene	2420	2030	84	40-140
98-95-3	Nitrobenzene	2420	1760	73	40-140
621-64-7	N-Nitroso-di-n-propylamine	2420	1800	74	40-140
86-30-6	N-Nitrosodiphenylamine	2420	2390	99	40-140
82-68-8	Pentachloronitrobenzene	2420	1800	74	40-140
85-01-8	Phenanthrene	2420	2410	100	40-140
129-00-0	Pyrene	2420	2630	109	40-140
110-86-1	Pyridine	2420	996	41	40-140
95-94-3	1,2,4,5-Tetrachlorobenzene	2420	1770	73	40-140
120-82-1	1,2,4-Trichlorobenzene	2420	1960	81	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	69%	30-130%
4165-62-2	Phenol-d5	72%	30-130%
118-79-6	2,4,6-Tribromophenol	98%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36612-BS	F71362.D	1	01/27/14	KR	01/25/14	OP36612	MSF3178

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-1, MC27780-2, MC27780-3, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	64%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	101%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36688-BS	W17434.D	1	01/29/14	KR	01/28/14	OP36688	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	2490	2280	92	30-130
59-50-7	4-Chloro-3-methyl phenol	2490	2060	83	30-130
120-83-2	2,4-Dichlorophenol	2490	2100	85	30-130
105-67-9	2,4-Dimethylphenol	2490	2020	81	30-130
51-28-5	2,4-Dinitrophenol	2490	1630	66	30-130
534-52-1	4,6-Dinitro-o-cresol	2490	2420	97	30-130
95-48-7	2-Methylphenol	2490	2140	86	30-130
106-44-5	4-Methylphenol	4970	4210	85	30-130
88-75-5	2-Nitrophenol	2490	2180	88	30-130
100-02-7	4-Nitrophenol	2490	1740	70	30-130
87-86-5	Pentachlorophenol	2490	2090	84	30-130
108-95-2	Phenol	2490	2190	88	30-130
95-95-4	2,4,5-Trichlorophenol	2490	2060	83	30-130
88-06-2	2,4,6-Trichlorophenol	2490	2100	85	30-130
83-32-9	Acenaphthene	2490	2620	105	40-140
208-96-8	Acenaphthylene	2490	2040	82	40-140
62-53-3	Aniline	2490	1310	53	40-140
120-12-7	Anthracene	2490	2680	108	40-140
56-55-3	Benzo(a)anthracene	2490	2880	116	40-140
50-32-8	Benzo(a)pyrene	2490	2480	100	40-140
205-99-2	Benzo(b)fluoranthene	2490	2780	112	40-140
191-24-2	Benzo(g,h,i)perylene	2490	2860	115	40-140
207-08-9	Benzo(k)fluoranthene	2490	2750	111	40-140
101-55-3	4-Bromophenyl phenyl ether	2490	3220	130	40-140
85-68-7	Butyl benzyl phthalate	2490	2500	101	40-140
91-58-7	2-Chloronaphthalene	2490	2370	95	40-140
106-47-8	4-Chloroaniline	2490	1570	63	40-140
86-74-8	Carbazole	2490	2570	103	40-140
218-01-9	Chrysene	2490	2790	112	40-140
111-91-1	bis(2-Chloroethoxy)methane	2490	1890	76	40-140
111-44-4	bis(2-Chloroethyl)ether	2490	2650	107	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2490	5480	221* [a]	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2490	2590	104	40-140
121-14-2	2,4-Dinitrotoluene	2490	2440	98	40-140
606-20-2	2,6-Dinitrotoluene	2490	2440	98	40-140
91-94-1	3,3'-Dichlorobenzidine	2490	1580	64	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36688-BS	W17434.D	1	01/29/14	KR	01/28/14	OP36688	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	2490	2940	118	40-140
132-64-9	Dibenzofuran	2490	2420	97	40-140
84-74-2	Di-n-butyl phthalate	2490	2320	93	40-140
117-84-0	Di-n-octyl phthalate	2490	2450	99	40-140
84-66-2	Diethyl phthalate	2490	2300	93	40-140
131-11-3	Dimethyl phthalate	2490	2380	96	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2490	2670	107	40-140
206-44-0	Fluoranthene	2490	2580	104	40-140
86-73-7	Fluorene	2490	2560	103	40-140
118-74-1	Hexachlorobenzene	2490	3220	130	40-140
87-68-3	Hexachlorobutadiene	2490	2540	102	40-140
77-47-4	Hexachlorocyclopentadiene	2490	3940	159* [a]	40-140
67-72-1	Hexachloroethane	2490	2210	89	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2490	2920	118	40-140
78-59-1	Isophorone	2490	2340	94	40-140
91-57-6	2-Methylnaphthalene	2490	2500	101	40-140
88-74-4	2-Nitroaniline	2490	2450	99	40-140
99-09-2	3-Nitroaniline	2490	1800	72	40-140
100-01-6	4-Nitroaniline	2490	2180	88	40-140
91-20-3	Naphthalene	2490	2610	105	40-140
98-95-3	Nitrobenzene	2490	2340	94	40-140
621-64-7	N-Nitroso-di-n-propylamine	2490	2380	96	40-140
86-30-6	N-Nitrosodiphenylamine	2490	2450	99	40-140
82-68-8	Pentachloronitrobenzene	2490	2470	99	40-140
85-01-8	Phenanthrene	2490	2750	111	40-140
129-00-0	Pyrene	2490	2860	115	40-140
110-86-1	Pyridine	2490	2190	88	40-140
95-94-3	1,2,4,5-Tetrachlorobenzene	2490	2640	106	40-140
120-82-1	1,2,4-Trichlorobenzene	2490	2600	105	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	84%	30-130%
4165-62-2	Phenol-d5	83%	30-130%
118-79-6	2,4,6-Tribromophenol	109%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36688-BS	W17434.D	1	01/29/14	KR	01/28/14	OP36688	MSW766

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC27780-4

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	74%	30-130%
321-60-8	2-Fluorobiphenyl	83%	30-130%
1718-51-0	Terphenyl-d14	98%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Check Std:	MSF3178-CC3146	**Injection Date:**	01/27/14
Lab File ID:	F71360.D	**Injection Time:**	09:43
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	160098	4.00	624969	5.05	364910	6.57	636017	7.85	704434	10.39	665046	12.07
Upper Limit [a]	320196	4.50	1249938	5.55	729820	7.07	1272034	8.35	1408868	10.89	1330092	12.57
Lower Limit [b]	80049	3.50	312485	4.55	182455	6.07	318009	7.35	352217	9.89	332523	11.57

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36612-MB	150866	4.00	561930	5.05	337370	6.57	579192	7.85	703817	10.38	614339	12.06
OP36612-BS	137808	4.00	490866	5.05	311198	6.57	492855	7.85	536096	10.39	510220	12.07
MC27780-1	133302	4.00	492548	5.05	294661	6.57	517049	7.84	544973	10.38	518269	12.06
MC27780-2	139834	4.00	524429	5.05	317460	6.57	541739	7.85	592595	10.39	543838	12.07
MC27780-3	115810	4.00	431915	5.05	252918	6.57	448576	7.85	489933	10.39	495046	12.07
MC27780-5	145277	4.00	533771	5.05	328710	6.57	548255	7.85	605438	10.38	585592	12.06
MC27780-6	137046	4.00	507766	5.04	310773	6.57	536511	7.85	586372	10.39	580604	12.07
MC27780-7	130216	4.00	482502	5.05	302438	6.57	553209	7.85	583998	10.38	586872	12.07
MC27780-8	148029	4.00	516578	5.05	310260	6.57	544650	7.85	587194	10.38	555045	12.07
MC27780-9	139342	4.00	503768	5.05	291417	6.57	502878	7.85	548000	10.39	565140	12.07
MC27780-10	146045	4.00	517273	5.05	309912	6.57	564973	7.85	566916	10.39	594514	12.08
MC27780-11	121829	4.00	462485	5.05	284245	6.57	488260	7.85	572981	10.39	614408	12.07
MC27780-12	121404	4.00	450923	5.05	278288	6.57	494095	7.85	578514	10.39	629917	12.07
MC27780-13	122806	4.00	455372	5.05	278668	6.57	490949	7.85	554746	10.39	608539	12.07
MC27780-14	129726	4.00	495783	5.05	286406	6.57	506562	7.85	558392	10.39	634700	12.08
MC27780-15	114065	4.00	406391	5.05	251125	6.57	469143	7.85	502898	10.39	569186	12.08
MC27780-16	125384	4.00	458915	5.05	278637	6.57	484127	7.85	558655	10.39	648448	12.08
MC27780-17	124301	4.00	456620	5.05	276146	6.57	481183	7.85	573776	10.39	654086	12.08
MC27780-18	131508	3.99	465249	5.05	287991	6.57	506940	7.85	603243	10.40	703733	12.08
MC27780-19	124396	4.00	469928	5.05	284814	6.57	511100	7.85	605507	10.39	673957	12.08
MC27780-20	127809	4.00	464577	5.05	281572	6.57	476541	7.85	515001	10.39	554335	12.07

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Check Std:	MSF3180-CC3146	**Injection Date:**	01/28/14
Lab File ID:	F71407.D	**Injection Time:**	14:17
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	136259	3.98	523097	5.03	324143	6.55	583869	7.83	688495	10.37	674679	12.04
Upper Limit [a]	272518	4.48	1046194	5.53	648286	7.05	1167738	8.33	1376990	10.87	1349358	12.54
Lower Limit [b]	68130	3.48	261549	4.53	162072	6.05	291935	7.33	344248	9.87	337340	11.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC27780-18	108386	3.98	416898	5.03	260938	6.55	471235	7.83	550073	10.36	558831	12.04
ZZZZZZ	106602	3.98	412108	5.03	258773	6.55	454947	7.83	542570	10.35	546017	12.04
ZZZZZZ	107852	3.98	400719	5.03	248375	6.55	450772	7.83	539194	10.36	531139	12.03

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Check Std:	MSR1352-CC1262	**Injection Date:**	01/24/14
Lab File ID:	R36686.D	**Injection Time:**	08:41
Instrument ID:	GCMSR	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	418746	4.30	1615130	5.36	1003805	6.89	1808174	8.19	2001847	10.82	1841234	12.56
Upper Limit [a]	837492	4.80	3230260	5.86	2007610	7.39	3616348	8.69	4003694	11.32	3682468	13.06
Lower Limit [b]	209373	3.80	807565	4.86	501903	6.39	904087	7.69	1000924	10.32	920617	12.06

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36617-MB	378580	4.30	1395534	5.36	860227	6.89	1511799	8.18	1495368	10.82	1370944	12.55
OP36617-BS	392598	4.30	1448562	5.36	905141	6.89	1562552	8.18	1619734	10.82	1429710	12.55
OP36617-MS	379428	4.30	1522937	5.36	1045292	6.90	1801218	8.19	1652367	10.82	1429175	12.55
OP36617-MSD	365974	4.30	1471709	5.36	1028282	6.90	1770243	8.19	1620575	10.82	1458436	12.55
MC27776-2	388313	4.30	1545964	5.36	1079106	6.90	1882152	8.19	1683518	10.82	1496672	12.55
ZZZZZZ	343305	4.30	1377699	5.36	932659	6.90	1637667	8.19	1497649	10.82	1337106	12.55
ZZZZZZ	345586	4.30	1278474	5.36	789076	6.89	1364813	8.18	1375489	10.82	1303237	12.55
ZZZZZZ	345132	4.30	1285974	5.36	797385	6.89	1398451	8.19	1612147	10.83	1475929	12.57
ZZZZZZ	355649	4.30	1317965	5.36	818426	6.89	1425369	8.19	1539383	10.83	1437618	12.56
ZZZZZZ	352066	4.30	1290130	5.36	802369	6.89	1411129	8.19	1698438	10.83	1550081	12.57
ZZZZZZ	338314	4.30	1256999	5.36	794210	6.89	1405199	8.19	1521393	10.82	1443511	12.56
ZZZZZZ	343029	4.30	1285109	5.36	805375	6.89	1427537	8.18	1497033	10.82	1414569	12.56
ZZZZZZ	364318	4.30	1339943	5.36	816519	6.89	1413297	8.19	1409987	10.82	1353664	12.56
ZZZZZZ	360700	4.30	1332775	5.36	804533	6.89	1410434	8.19	1429224	10.82	1361901	12.56
ZZZZZZ	343217	4.30	1275847	5.36	785770	6.89	1390245	8.18	1446671	10.82	1370433	12.56
ZZZZZZ	350149	4.30	1297078	5.36	805310	6.89	1417637	8.18	1441272	10.82	1367723	12.56
ZZZZZZ	344923	4.30	1294248	5.36	805847	6.89	1441706	8.19	1595601	10.83	1431486	12.56
ZZZZZZ	350587	4.30	1319025	5.36	817477	6.89	1426024	8.19	1531619	10.82	1414479	12.56
MC27780-21	325391	4.30	1216392	5.36	733145	6.89	1271465	8.18	1300146	10.82	1241036	12.56
MC27780-22	330072	4.30	1219042	5.36	731519	6.89	1256205	8.18	1283523	10.82	1219616	12.56
MC27780-23	322927	4.30	1184735	5.36	721034	6.89	1263822	8.19	1284349	10.82	1201689	12.56
ZZZZZZ	344259	4.30	1286820	5.36	802203	6.89	1431431	8.19	1514513	10.82	1372965	12.56
ZZZZZZ	347805	4.30	1305046	5.36	801556	6.89	1422656	8.19	1494533	10.82	1383808	12.56
ZZZZZZ	344933	4.30	1292972	5.36	799500	6.89	1413196	8.19	1485721	10.82	1352430	12.56

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Check Std:	MSW766-CC729	**Injection Date:**	01/29/14
Lab File ID:	W17427.D	**Injection Time:**	07:28
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	58298	4.47	220682	5.54	150861	7.08	259343	8.38	266543	11.08	243310	12.86
Upper Limit [a]	116596	4.97	441364	6.04	301722	7.58	518686	8.88	533086	11.58	486620	13.36
Lower Limit [b]	29149	3.97	110341	5.04	75431	6.58	129672	7.88	133272	10.58	121655	12.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP36688-MB	67588	4.47	250359	5.53	167692	7.08	279360	8.37	266344	11.08	240893	12.85
OP36688-BS	71174	4.47	264933	5.54	174277	7.08	287753	8.38	272508	11.08	247611	12.85
MC27780-4	64927	4.47	235983	5.53	151710	7.08	253360	8.37	228584	11.08	201993	12.85
OP36679-MB	62128	4.47	229071	5.53	152600	7.08	259121	8.37	254909	11.08	241274	12.85
OP36679-BS	63196	4.47	233406	5.54	156001	7.08	263963	8.37	255257	11.08	242735	12.85
ZZZZZZ	65602	4.47	242036	5.53	161933	7.08	272438	8.37	267153	11.08	255143	12.85
ZZZZZZ	66056	4.47	244694	5.53	163229	7.08	270676	8.37	265338	11.08	249514	12.85
ZZZZZZ	62028	4.47	234468	5.53	154033	7.08	260005	8.37	267622	11.08	247047	12.85
OP36666-MB	59445	4.47	220292	5.53	144019	7.08	243236	8.37	237610	11.08	223925	12.85
OP36666-BS	61534	4.47	221397	5.54	146713	7.08	246662	8.37	244089	11.08	228575	12.85
OP36666-BSD	63939	4.47	233986	5.54	152659	7.08	263868	8.37	255904	11.08	240028	12.85
ZZZZZZ	62056	4.47	225175	5.53	147479	7.08	246231	8.37	247144	11.07	233285	12.85

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC27780-1	F71363.D	55.0	58.0	69.0	50.0	65.0	85.0
MC27780-2	F71364.D	42.0	46.0	69.0	38.0	52.0	73.0
MC27780-3	F71365.D	57.0	57.0	77.0	50.0	66.0	82.0
MC27780-4	W17435.D	78.0	75.0	101.0	71.0	81.0	96.0
MC27780-5	F71367.D	64.0	63.0	80.0	55.0	66.0	82.0
MC27780-6	F71368.D	62.0	62.0	80.0	53.0	70.0	87.0
MC27780-7	F71369.D	82.0	78.0	98.0	65.0	76.0	96.0
MC27780-8	F71370.D	81.0	81.0	103.0	75.0	87.0	101.0
MC27780-9	F71371.D	60.0	65.0	86.0	57.0	76.0	96.0
MC27780-10	F71372.D	61.0	65.0	82.0	55.0	72.0	97.0
MC27780-11	F71373.D	57.0	60.0	77.0	47.0	66.0	76.0
MC27780-12	F71374.D	59.0	61.0	77.0	52.0	70.0	83.0
MC27780-13	F71375.D	63.0	65.0	83.0	57.0	74.0	85.0
MC27780-14	F71376.D	67.0	70.0	90.0	54.0	77.0	93.0
MC27780-15	F71377.D	73.0	76.0	97.0	62.0	82.0	102.0
MC27780-16	F71378.D	51.0	54.0	70.0	42.0	56.0	67.0
MC27780-17	F71379.D	59.0	59.0	81.0	47.0	64.0	77.0
MC27780-18	F71408.D	33.0	26.0* [a]	51.0	35.0	52.0	70.0
MC27780-18	F71380.D	48.0	52.0	66.0	44.0	57.0	66.0
MC27780-19	F71381.D	62.0	65.0	86.0	51.0	72.0	89.0
MC27780-20	F71382.D	76.0	75.0	98.0	65.0	77.0	96.0
MC27780-21	R36706.D	44.0	45.0	46.0	50.0	44.0	48.0
MC27780-22	R36707.D	64.0	65.0	68.0	74.0	66.0	73.0
MC27780-23	R36708.D	64.0	65.0	69.0	76.0	66.0	77.0
OP36612-BS	F71362.D	69.0	72.0	98.0	64.0	72.0	101.0
OP36612-MB	F71361.D	83.0	82.0	97.0	69.0	83.0	90.0
OP36617-BS	R36688.D	48.0	48.0	53.0	57.0	48.0	58.0
OP36617-MB	R36687.D	52.0	52.0	56.0	60.0	51.0	72.0
OP36688-BS	W17434.D	84.0	83.0	109.0	74.0	83.0	98.0
OP36688-MB	W17433.D	85.0	81.0	103.0	76.0	81.0	98.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-130%
S2 = Phenol-d5	30-130%
S3 = 2,4,6-Tribromophenol	30-130%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits

(a) Outside control limits due to dilution.

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36599-MB	BI31006.D	1	01/24/14	KN	01/20/14	OP36599	GBI1128

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	ND	16	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	58%	50-137%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36614-MB	BI31058.D	1	01/27/14	KN	01/21/14	OP36614	GBI1129

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Result	RL	Units	Q
	CT-ETPH (C9-C36)	ND	17	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	78%	50-137%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36623-MB	BE40256.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078

The QC reported here applies to the following samples: **Method:** SW846 8081

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-8, MC27780-11, MC27780-13, MC27780-15, MC27780-17, MC27780-19, MC27780-22

CAS No.	Compound	Result	RL	Units	Q
15972-60-8	Alachlor	ND	49	ug/kg	
309-00-2	Aldrin	ND	4.9	ug/kg	
319-84-6	alpha-BHC	ND	4.9	ug/kg	
319-85-7	beta-BHC	ND	4.9	ug/kg	
319-86-8	delta-BHC	ND	4.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	4.9	ug/kg	
12789-03-6	Chlordane	ND	49	ug/kg	
60-57-1	Dieldrin	ND	4.9	ug/kg	
72-54-8	4,4'-DDD	ND	4.9	ug/kg	
72-55-9	4,4'-DDE	ND	4.9	ug/kg	
50-29-3	4,4'-DDT	ND	4.9	ug/kg	
72-20-8	Endrin	ND	4.9	ug/kg	
1031-07-8	Endosulfan sulfate	ND	4.9	ug/kg	
7421-93-4	Endrin aldehyde	ND	4.9	ug/kg	
959-98-8	Endosulfan-I	ND	4.9	ug/kg	
33213-65-9	Endosulfan-II	ND	4.9	ug/kg	
76-44-8	Heptachlor	ND	4.9	ug/kg	
1024-57-3	Heptachlor epoxide	ND	4.9	ug/kg	
72-43-5	Methoxychlor	ND	4.9	ug/kg	
53494-70-5	Endrin ketone	ND	4.9	ug/kg	
8001-35-2	Toxaphene	ND	49	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	88%	30-150%
877-09-8	Tetrachloro-m-xylene	87%	30-150%
2051-24-3	Decachlorobiphenyl	95%	30-150%
2051-24-3	Decachlorobiphenyl	96%	30-150%

Method Blank Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36622-MB	BK34154.D	1	01/22/14	NK	01/21/14	OP36622	GBK1122

The QC reported here applies to the following samples: **Method:** SW846 8082

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-8, MC27780-11, MC27780-13, MC27780-15, MC27780-17, MC27780-19, MC27780-22

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	25	ug/kg	
11104-28-2	Aroclor 1221	ND	25	ug/kg	
11141-16-5	Aroclor 1232	ND	25	ug/kg	
53469-21-9	Aroclor 1242	ND	25	ug/kg	
12672-29-6	Aroclor 1248	ND	25	ug/kg	
11097-69-1	Aroclor 1254	ND	25	ug/kg	
11096-82-5	Aroclor 1260	ND	25	ug/kg	
37324-23-5	Aroclor 1262	ND	25	ug/kg	
11100-14-4	Aroclor 1268	ND	25	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	86%	30-150%
877-09-8	Tetrachloro-m-xylene	81%	30-150%
2051-24-3	Decachlorobiphenyl	89%	30-150%
2051-24-3	Decachlorobiphenyl	86%	30-150%

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36599-BS	BI31008.D	1	01/24/14	KN	01/20/14	OP36599	GBI1128

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

MC27780-21, MC27780-22, MC27780-23

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	CT-ETPH (C9-C36)	45.1	28.2	63	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	59%	50-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36614-BS	BI31060.D	1	01/27/14	KN	01/21/14	OP36614	GBI1129

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	CT-ETPH (C9-C36)	46.2	39.3	85	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	80%	50-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36623-BS1	BE40257.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078

The QC reported here applies to the following samples: **Method:** SW846 8081

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-8, MC27780-11, MC27780-13, MC27780-15, MC27780-17, MC27780-19, MC27780-22

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
15972-60-8	Alachlor	132	113	86	40-140
309-00-2	Aldrin	13.2	9.4	71	40-140
319-84-6	alpha-BHC	13.2	8.6	65	40-140
319-85-7	beta-BHC	13.2	10.3	78	40-140
319-86-8	delta-BHC	13.2	7.1	54	40-140
58-89-9	gamma-BHC (Lindane)	13.2	8.9	68	40-140
60-57-1	Dieldrin	13.2	10.6	81	40-140
72-54-8	4,4'-DDD	13.2	11.8	90	40-140
72-55-9	4,4'-DDE	13.2	10.7	81	40-140
50-29-3	4,4'-DDT	13.2	11.3	86	40-140
72-20-8	Endrin	13.2	10.9	83	40-140
1031-07-8	Endosulfan sulfate	13.2	10.1	77	40-140
7421-93-4	Endrin aldehyde	13.2	10.5	80	40-140
959-98-8	Endosulfan-I	13.2	10.3	78	40-140
33213-65-9	Endosulfan-II	13.2	10.4	79	40-140
76-44-8	Heptachlor	13.2	10.1	77	40-140
1024-57-3	Heptachlor epoxide	13.2	10.4	79	40-140
72-43-5	Methoxychlor	13.2	11.8	90	40-140
53494-70-5	Endrin ketone	13.2	11.4	87	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	69%	30-150%
877-09-8	Tetrachloro-m-xylene	63%	30-150%
2051-24-3	Decachlorobiphenyl	80%	30-150%
2051-24-3	Decachlorobiphenyl	79%	30-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36622-BS	BK34155.D	1	01/22/14	NK	01/21/14	OP36622	GBK1122

The QC reported here applies to the following samples: **Method:** SW846 8082

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-8, MC27780-11, MC27780-13, MC27780-15, MC27780-17, MC27780-19, MC27780-22

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	259	263	101	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	259	277	107	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	94%	30-150%
877-09-8	Tetrachloro-m-xylene	91%	30-150%
2051-24-3	Decachlorobiphenyl	103%	30-150%
2051-24-3	Decachlorobiphenyl	98%	30-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36623-MS1	BE40260.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
OP36623-MSD1	BE40261.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078
MC27780-22	BE40275.D	1	01/27/14	NK	01/21/14	OP36623	GBE2078

The QC reported here applies to the following samples: **Method:** SW846 8081

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-8, MC27780-11, MC27780-13, MC27780-15, MC27780-17, MC27780-19, MC27780-22

CAS No.	Compound	MC27780-22 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
15972-60-8	Alachlor	ND		140	111	80	105	76	6	30-150/30
309-00-2	Aldrin	ND		14	8.9	64	8.4	60	6	30-150/30
319-84-6	alpha-BHC	ND		14	8.5	61	7.9	57	7	30-150/30
319-85-7	beta-BHC	ND		14	8.5	61	7.3	52	15	30-150/30
319-86-8	delta-BHC	ND		14	7.2	52	6.6	47	9	30-150/30
58-89-9	gamma-BHC (Lindane)	ND		14	8.9	64	8.6	62	3	30-150/30
60-57-1	Dieldrin	ND		14	9.7	70	9.9	71	2	30-150/30
72-54-8	4,4'-DDD	ND		14	9.3	67	8.7	63	7	30-150/30
72-55-9	4,4'-DDE	ND		14	9.4	67	8.7	63	8	30-150/30
50-29-3	4,4'-DDT	3.2		14	15.5	88	15.0	85	3	30-150/30
72-20-8	Endrin	ND		14	10	72	9.0	65	11	30-150/30
1031-07-8	Endosulfan sulfate	ND		14	8.7	62	7.8	56	11	30-150/30
7421-93-4	Endrin aldehyde	ND		14	5.7	41	5.6	40	2	30-150/30
959-98-8	Endosulfan-I	ND		14	9.4	67	9.2	66	2	30-150/30
33213-65-9	Endosulfan-II	ND		14	9.7	70	9.4	68	3	30-150/30
76-44-8	Heptachlor	ND		14	9.9	71	9.2	66	7	30-150/30
1024-57-3	Heptachlor epoxide	ND		14	9.8	70	8.9	64	10	30-150/30
72-43-5	Methoxychlor	ND		14	13.1	94	13.2	95	1	30-150/30
53494-70-5	Endrin ketone	ND		14	11.0	79	10.1	73	9	30-150/30

CAS No.	Surrogate Recoveries	MS	MSD	MC27780-22	Limits
877-09-8	Tetrachloro-m-xylene	65%	62%	55%	30-150%
877-09-8	Tetrachloro-m-xylene	61%	57%	52%	30-150%
2051-24-3	Decachlorobiphenyl	74%	69%	68%	30-150%
2051-24-3	Decachlorobiphenyl	63%	58%	41%	30-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP36622-MS	BK34252.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
OP36622-MSD	BK34253.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126
MC27780-1	BK34254.D	1	01/27/14	NK	01/21/14	OP36622	GBK1126

The QC reported here applies to the following samples: **Method:** SW846 8082

MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-8, MC27780-11, MC27780-13, MC27780-15, MC27780-17, MC27780-19, MC27780-22

CAS No.	Compound	MC27780-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		375	351	94	345	90	2	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		375	332	89	326	85	2	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	MC27780-1	Limits
877-09-8	Tetrachloro-m-xylene	86%	81%	87%	30-150%
877-09-8	Tetrachloro-m-xylene	91%	88%	92%	30-150%
2051-24-3	Decachlorobiphenyl	85%	82%	86%	30-150%
2051-24-3	Decachlorobiphenyl	90%	88%	93%	30-150%

* = Outside of Control Limits.

DDT/Endrin Breakdown Check

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample:	GBE2078-DDT	**Injection Date:**	01/27/14
Lab File ID:	BE40243.D	**Injection Time:**	10:16
Instrument ID:	GCBE		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	7258500	8959996
4,4'-DDE	6637099	7065832
4,4'-DDT	1104416564	859729350
DDT Breakdown [a]	1.2 %	1.8 %
Endrin aldehyde	11211376	11386308
Endrin ketone	24119577	23252009
Endrin	601324577	497756972
Endrin Breakdown [b]	5.5 %	6.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
GBE2078-IC2078	BE40244.D	01/27/14	10:54	00:38	Initial cal 1000
GBE2078-IC2078	BE40245.D	01/27/14	11:16	01:00	Initial cal 500
GBE2078-IC2078	BE40246.D	01/27/14	11:38	01:22	Initial cal 500
GBE2078-IC2078	BE40247.D	01/27/14	12:00	01:44	Initial cal 500
GBE2078-IC2078	BE40248.D	01/27/14	12:22	02:06	Initial cal 250
GBE2078-ICC2078	BE40249.D	01/27/14	12:44	02:28	Initial cal 100
GBE2078-IC2078	BE40250.D	01/27/14	13:06	02:50	Initial cal 50
GBE2078-IC2078	BE40251.D	01/27/14	13:28	03:12	Initial cal 10
GBE2078-IC2078	BE40252.D	01/27/14	13:50	03:34	Initial cal 5
GBE2078-ICV2078	BE40253.D	01/27/14	14:12	03:56	Initial cal verification 100
OP36623-MB	BE40256.D	01/27/14	15:17	05:02	Method Blank
OP36623-BS1	BE40257.D	01/27/14	15:39	05:24	Blank Spike
GBE2078-CC2078	BE40258.D	01/27/14	16:01	05:45	Continuing cal 100

DDT/Endrin Breakdown Check

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample:	GBE2078-DDT	**Injection Date:**	01/27/14
Lab File ID:	BE40259.D	**Injection Time:**	16:23
Instrument ID:	GCBE		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	6783468	8348590
4,4'-DDE	6168829	5983210
4,4'-DDT	1274156745	979328613
DDT Breakdown [a]	1 %	1.4 %
Endrin aldehyde	36245401	38263681
Endrin ketone	41804504	39921155
Endrin	662890978	543157306
Endrin Breakdown [b]	10.5 %	12.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP36623-MS1	BE40260.D	01/27/14	16:45	00:22	Matrix Spike
OP36623-MSD1	BE40261.D	01/27/14	17:07	00:44	Matrix Spike Duplicate
MC27780-1	BE40262.D	01/27/14	17:29	01:06	SED-1
MC27780-2	BE40263.D	01/27/14	17:51	01:28	SED-2
MC27780-3	BE40264.D	01/27/14	18:13	01:50	SED-3
MC27780-4	BE40265.D	01/27/14	18:35	02:12	SED-4
MC27780-5	BE40266.D	01/27/14	18:57	02:34	GP-1 1'-3'
MC27780-8	BE40267.D	01/27/14	19:19	02:55	GP-4 1'-3'
MC27780-11	BE40268.D	01/27/14	19:41	03:17	GP-7 1'-3'
MC27780-13	BE40269.D	01/27/14	20:03	03:39	GP-9 1'-3'
GBE2078-CC2078	BE40270.D	01/27/14	20:24	04:01	Continuing cal 250

DDT/Endrin Breakdown Check

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample:	GBE2078-DDT	**Injection Date:**	01/27/14
Lab File ID:	BE40271.D	**Injection Time:**	20:47
Instrument ID:	GCBE		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	150581454	128241145
4,4'-DDE	1439524	1647564
4,4'-DDT	839510315	594132648
DDT Breakdown [a]	15.3 %**	17.9 %**
Endrin aldehyde	10848069	10471836
Endrin ketone	21905443	19213499
Endrin	665560476	498633757
Endrin Breakdown [b]	4.7 %	5.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MC27780-15	BE40272.D	01/27/14	21:08	00:22	GP-11 1'-3'
MC27780-17	BE40273.D	01/27/14	21:30	00:44	GP-13 1'-3'
MC27780-19	BE40274.D	01/27/14	21:52	01:06	GP-15 1'-3'
MC27780-22	BE40275.D	01/27/14	22:14	01:28	GP-18 1'-3'
GBE2078-ECC2078	BE40276.D	01/27/14	22:36	01:50	Ending cal 250

DDT/Endrin Breakdown Check

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample:	GBE2079-DDT	**Injection Date:**	01/28/14
Lab File ID:	BE40277.D	**Injection Time:**	08:15
Instrument ID:	GCBE		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	14539907	11219161
4,4'-DDE	12075816	10358749
4,4'-DDT	1347675300	747710872
DDT Breakdown [a]	1.9 %	2.8 %
Endrin aldehyde	18599624	11373693
Endrin ketone	22585881	14614514
Endrin	813938345	480178497
Endrin Breakdown [b]	4.8 %	5.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
GBE2079-CC2078	BE40278.D	01/28/14	08:45	00:30	Continuing cal 250
MC27780-13	BE40288.D	01/28/14	12:24	04:09	GP-9 1'-3'
GBE2079-CC2078	BE40289.D	01/28/14	12:46	04:31	Continuing cal 250

DDT/Endrin Breakdown Check

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Sample:	GBE2079-DDT	**Injection Date:**	01/28/14
Lab File ID:	BE40290.D	**Injection Time:**	13:19
Instrument ID:	GCBE		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	89422203	67903628
4,4'-DDE	496701	729069
4,4'-DDT	815902810	513618025
DDT Breakdown [a]	9.9 %	11.8 %
Endrin aldehyde	2227484	1590425
Endrin ketone	11493051	8553262
Endrin	590294962	393525615
Endrin Breakdown [b]	2.3 %	2.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MC27780-15	BE40291.D	01/28/14	13:41	00:22	GP-11 1'-3'
MC27780-17	BE40292.D	01/28/14	14:03	00:44	GP-13 1'-3'
MC27780-19	BE40293.D	01/28/14	14:25	01:06	GP-15 1'-3'
GBE2079-ECC2078	BE40295.D	01/28/14	15:09	01:49	Ending cal 250

Semivolatile Surrogate Recovery Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Method: SW846 8081 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
MC27780-1	BE40262.D	60.0	57.0	74.0	56.0
MC27780-2	BE40263.D	59.0	57.0	66.0	51.0
MC27780-3	BE40264.D	44.0	31.0	86.0	152.0* [c]
MC27780-4	BE40265.D	51.0	53.0	55.0	40.0
MC27780-5	BE40266.D	58.0	55.0	74.0	55.0
MC27780-8	BE40267.D	66.0	58.0	69.0	52.0
MC27780-11	BE40268.D	48.0	39.0	91.0	108.0
MC27780-13	BE40288.D	42.0	27.0* [d]	117.0	167.0* [d]
MC27780-13	BE40269.D	38.0	25.0* [d]	117.0	247.0* [d]
MC27780-15	BE40291.D	45.0	27.0* [c]	133.0	226.0* [d]
MC27780-15	BE40272.D	41.0	30.0	133.0	305.0* [d]
MC27780-17	BE40292.D	49.0	32.0	118.0	209.0* [d]
MC27780-17	BE40273.D	45.0	32.0	122.0	247.0* [d]
MC27780-19	BE40293.D	34.0	21.0* [d]	213.0* [d]	376.0* [d]
MC27780-19	BE40274.D	37.0	25.0* [d]	211.0* [d]	440.0* [d]
MC27780-22	BE40275.D	55.0	52.0	68.0	41.0
OP36623-BS1	BE40257.D	69.0	63.0	80.0	79.0
OP36623-MB	BE40256.D	88.0	87.0	95.0	96.0
OP36623-MS1	BE40260.D	65.0	61.0	74.0	63.0
OP36623-MSD1	BE40261.D	62.0	57.0	69.0	58.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to possible matrix interference.
(d) Outside control limits due to matrix interference. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Method: SW846 8082 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
MC27780-1	BK34254.D	87.0	92.0	86.0	93.0
MC27780-2	BK34255.D	99.0	102.0	99.0	103.0
MC27780-3	BK34257.D	86.0	77.0	83.0	82.0
MC27780-4	BK34258.D	94.0	96.0	94.0	100.0
MC27780-5	BK34259.D	86.0	87.0	86.0	92.0
MC27780-8	BK34260.D	91.0	92.0	91.0	99.0
MC27780-11	BK34261.D	84.0	75.0	80.0	81.0
MC27780-13	BK34262.D	74.0	64.0	71.0	71.0
MC27780-15	BK34263.D	69.0	61.0	70.0	68.0
MC27780-17	BK34264.D	80.0	68.0	74.0	75.0
MC27780-19	BK34265.D	78.0	66.0	76.0	72.0
MC27780-22	BK34266.D	87.0	86.0	77.0	88.0
OP36622-BS	BK34155.D	94.0	91.0	103.0	98.0
OP36622-MB	BK34154.D	86.0	81.0	89.0	86.0
OP36622-MS	BK34252.D	86.0	91.0	85.0	90.0
OP36622-MSD	BK34253.D	81.0	88.0	82.0	88.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Semivolatile Surrogate Recovery Summary

Job Number: MC27780
Account: CDRMRHCT CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

Method: CT-ETPH 7/06 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC27780-1	BC659787.D	92.0
MC27780-2	BC659781.D	75.0
MC27780-3	BI31064.D	73.0
MC27780-4	BC659783.D	84.0
MC27780-5	BI31061.D	80.0
MC27780-6	BC659779.D	90.0
MC27780-7	BC659777.D	92.0
MC27780-8	BC659773.D	87.0
MC27780-9	BI31062.D	91.0
MC27780-10	BI31071.D	99.0
MC27780-11	BI31068.D	90.0
MC27780-12	BI31072.D	88.0
MC27780-13	BI31066.D	87.0
MC27780-14	BI31067.D	95.0
MC27780-15	BI31069.D	97.0
MC27780-16	BI31070.D	75.0
MC27780-17	BI31063.D	88.0
MC27780-18	BI31065.D	80.0
MC27780-19	BC659785.D	92.0
MC27780-20	BC659775.D	99.0
MC27780-21	BI31073.D	52.0
MC27780-22	BI31038.D	58.0
MC27780-23	BI31020.D	62.0
OP36599-BS	BI31008.D	59.0
OP36599-MB	BI31006.D	58.0
OP36614-BS	BI31060.D	80.0
OP36614-MB	BI31058.D	78.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	50-137%

(a) Recovery from GC signal #1

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22414 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 01/23/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0029	.0097	-0.0030	<0.033

Associated samples MP22414: MC27780-1, MC27780-2, MC27780-3, MC27780-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22414
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date:	01/23/14							01/23/14	
Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	0.49	0.5	98.0	80-120	0.49	0.5	98.0	0.0	20

Associated samples MP22414: MC27780-1, MC27780-2, MC27780-3, MC27780-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22414
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 01/23/14

Metal	LCS Result	Spikelot HGLCS78	% Rec	QC Limits
Mercury	4.1	4.05	101.2	72-128

Associated samples MP22414: MC27780-1, MC27780-2, MC27780-3, MC27780-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22415 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 01/23/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0029	.0097	0.0017	<0.033

Associated samples MP22415: MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22415 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 01/23/14

Metal	MC27780-22 Original	MS	Spikelot HGRWS1	% Rec	QC Limits
Mercury	0.0034	0.50	0.496	100.1	80-120

Associated samples MP22415: MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22415 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 01/23/14

Metal	MC27780-22 Original	MSD	Spikelot HGRWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0034	0.54	0.496	108.2	7.7	20

Associated samples MP22415: MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22415
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 01/23/14 01/23/14

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	0.49	0.5	98.0	80-120	0.51	0.5	102.0	4.0	20

Associated samples MP22415: MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22415
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 01/23/14

Metal	LCS Result	Spikelot HGLCS78	% Rec	QC Limits
Mercury	3.9	4.05	96.3	72-128

Associated samples MP22415: MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19, MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/23/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.61	3.6		
Antimony	1.0	.11	.15		
Arsenic	1.0	.22	.21	0.15	<1.0
Barium	5.0	.019	.073	0.10	<5.0
Beryllium	0.40	.008	.024		
Boron	10	.081	.11		
Cadmium	0.40	.022	.042	0.020	<0.40
Calcium	500	.85	6.3		
Chromium	1.0	.074	.095	-0.030	<1.0
Cobalt	5.0	.028	.047		
Copper	2.5	.086	.56		
Gold	5.0	.18	.43		
Iron	10	.44	.87		
Lead	1.0	.16	.17	0.060	<1.0
Magnesium	500	4.3	5.1		
Manganese	1.5	.017	.04		
Molybdenum	10	.04	.07		
Nickel	4.0	.045	.044		
Palladium	5.0	.2	.64		
Platinum	5.0	.87	1.5		
Potassium	500	2.4	8.6		
Selenium	1.0	.14	.35	0.090	<1.0
Silicon	10	.21	3.3		
Silver	0.50	.047	.13	-0.020	<0.50
Sodium	500	4.2	3.3		
Sulfur	5.0	.29	.82		
Strontium	1.0	.01	.03		
Thallium	1.0	.17	.13		
Tin	10	.15	.14		
Titanium	5.0	.048	.14		
Tungsten	10	.93	.94		
Vanadium	1.0	.09	.13		
Zinc	2.0	.091	.16		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal			
Zirconium	5.0	.076	.088

Associated samples MP22416: MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/23/14

Metal	MC27780-8 Original	MS	Spikelot MPICP	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	2.2	42.9	45.7	89.0	75-125
Barium	42.5	201	183	86.7	75-125
Beryllium					
Boron					
Cadmium	0.028	40.1	45.7	87.7	75-125
Calcium					
Chromium	18.8	60.4	45.7	91.0	75-125
Cobalt					
Copper					
Gold					
Iron					
Lead	9.0	85.5	91.4	83.7	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel					
Palladium					
Platinum					
Potassium					
Selenium	0.28	39.5	45.7	85.8	75-125
Silicon					
Silver	0.0	15.7	18.3	85.9	75-125
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal
Zirconium

Associated samples MP22416: MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/23/14

Metal	MC27780-8 Original	MSD	Spikelot MPICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	2.2	44.6	46.5	91.3	3.9	20
Barium	42.5	203	186	86.4	1.0	20
Beryllium						
Boron						
Cadmium	0.028	41.2	46.5	88.6	2.7	20
Calcium						
Chromium	18.8	61.2	46.5	91.3	1.3	20
Cobalt						
Copper						
Gold						
Iron						
Lead	9.0	89.0	92.9	86.1	4.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Palladium						
Platinum						
Potassium						
Selenium	0.28	40.7	46.5	87.0	3.0	20
Silicon						
Silver	0.0	16.0	18.6	86.1	1.9	20
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal
Zirconium

Associated samples MP22416: MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			01/23/14					01/23/14	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	54.7	50	109.4	80-120	53.7	50	107.4	1.8	20
Barium	204	200	102.0	80-120	199	200	99.5	2.5	20
Beryllium									
Boron									
Cadmium	52.1	50	104.2	80-120	51.1	50	102.2	1.9	20
Calcium									
Chromium	51.3	50	102.6	80-120	50.7	50	101.4	1.2	20
Cobalt									
Copper									
Gold									
Iron									
Lead	102	100	102.0	80-120	101	100	101.0	1.0	20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Palladium									
Platinum									
Potassium									
Selenium	51.7	50	103.4	80-120	50.9	50	101.8	1.6	20
Silicon									
Silver	19.8	20	99.0	80-120	19.2	20	96.0	3.1	20
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal
Zirconium

Associated samples MP22416: MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/23/14

Metal	LCS Result	Spikelot MPLCS78	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	88.1	94.5	93.2	82-117
Barium	154	166	92.8	83-116
Beryllium				
Boron				
Cadmium	57.5	59.9	96.0	84-116
Calcium				
Chromium	65.2	69.3	94.1	81-119
Cobalt				
Copper				
Gold				
Iron				
Lead	85.9	91.7	93.7	82-118
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Platinum				
Potassium				
Selenium	153	159	96.2	79-121
Silicon				
Silver	31.2	33.9	92.0	66-134
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal
Zirconium

Associated samples MP22416: MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/23/14

Metal	MC27780-8 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	23.4	42.8	82.9 (a)	0-10
Barium	458	529	15.6 (b)	0-10
Beryllium				
Boron				
Cadmium	0.300	0.00	100.0(a)	0-10
Calcium				
Chromium	203	234	15.6 (b)	0-10
Cobalt				
Copper				
Gold				
Iron				
Lead	97.0	121	24.5 (b)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Platinum				
Potassium				
Selenium	3.00	7.90	163.3(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22416 Methods: SW846 6010C
Matrix Type: SOLID Units: ug/l

Prep Date:

Metal
Zirconium

Associated samples MP22416: MC27780-1, MC27780-2, MC27780-3, MC27780-4, MC27780-5, MC27780-6, MC27780-7, MC27780-8, MC27780-9, MC27780-10, MC27780-11, MC27780-12, MC27780-13, MC27780-14, MC27780-15, MC27780-16, MC27780-17, MC27780-18, MC27780-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22418
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 01/23/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.20	.0061	.04		
Antimony	0.0060	.0011	.0019		
Arsenic	0.010	.0022	.0029	0.00020	<0.010
Barium	0.50	.00019	.00081	0.00030	<0.50
Beryllium	0.0040	.00008	.00025		
Boron	0.10	.00081	.0014		
Cadmium	0.0040	.00022	.0005	0.00020	<0.0040
Calcium	5.0	.0085	.038		
Chromium	0.010	.00074	.0014	-0.00040	<0.010
Cobalt	0.050	.00028	.0004		
Copper	0.025	.00086	.007		
Gold	0.050	.0018	.005		
Iron	0.10	.0044	.02		
Lead	0.010	.0016	.0017	0.00010	<0.010
Magnesium	5.0	.043	.059		
Manganese	0.015	.00017	.00081		
Molybdenum	0.10	.0004	.00077		
Nickel	0.040	.00045	.00057		
Palladium	0.050	.002	.0076		
Platinum	0.050	.0087	.014		
Potassium	5.0	.024	.16		
Selenium	0.025	.0014	.0048	0.0015	<0.025
Silicon	0.10	.0021	.045		
Silver	0.0050	.00047	.001	0.00030	<0.0050
Sodium	5.0	.042	.06		
Sulfur	0.050	.0029	.008		
Strontium	0.010	.0001	.00026		
Thallium	0.0050	.0017	.0019		
Tin	0.10	.0015	.0014		
Titanium	0.050	.00048	.0018		
Tungsten	0.10	.0093	.016		
Vanadium	0.010	.0009	.0028		
Zinc	0.10	.00091	.0005		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22418 Methods: SW846 6010C
Matrix Type: LEACHATE Units: mg/l

Prep Date:

Metal			
Zirconium	0.050	.00076	.0022

Associated samples MP22418: MC27780-21A, MC27780-22A, MC27780-23A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22418
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			01/23/14					01/23/14	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	0.54	0.50	108.0	80-120	0.53	0.50	106.0	1.9	20
Barium	2.0	2.0	100.0	80-120	2.0	2.0	100.0	0.0	20
Beryllium									
Boron									
Cadmium	0.51	0.50	102.0	80-120	0.51	0.50	102.0	0.0	20
Calcium									
Chromium	0.52	0.50	104.0	80-120	0.52	0.50	104.0	0.0	20
Cobalt									
Copper									
Gold									
Iron									
Lead	1.0	1.0	100.0	80-120	1.0	1.0	100.0	0.0	20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Palladium									
Platinum									
Potassium									
Selenium	0.51	0.50	102.0	80-120	0.51	0.50	102.0	0.0	20
Silicon									
Silver	0.19	0.20	95.0	80-120	0.20	0.20	100.0	5.1	20
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22418
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:

Metal
Zirconium

Associated samples MP22418: MC27780-21A, MC27780-22A, MC27780-23A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22418
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/23/14

Metal	MC27756-1A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	81.1	84.0	3.6	0-10
Beryllium				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	2.90	0.00	100.0(a)	0-10
Cobalt				
Copper				
Gold				
Iron				
Lead	10.2	15.6	52.9 (a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Platinum				
Potassium				
Selenium	3.20	0.00	100.0(a)	0-10
Silicon				
Silver	0.00	2.40	NC	0-10
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22418 Methods: SW846 6010C
Matrix Type: LEACHATE Units: ug/l

Prep Date:

Metal
Zirconium

Associated samples MP22418: MC27780-21A, MC27780-22A, MC27780-23A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 01/23/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.20	.0061	.04		
Antimony	0.0060	.0011	.0019		
Arsenic	0.010	.0022	.0029	0.0011	<0.010
Barium	0.50	.00019	.00081	0.00060	<0.50
Beryllium	0.0040	.00008	.00025		
Boron	0.10	.00081	.0014		
Cadmium	0.0040	.00022	.0005	0.00030	<0.0040
Calcium	5.0	.0085	.038		
Chromium	0.010	.00074	.0014	-0.00010	<0.010
Cobalt	0.050	.00028	.0004		
Copper	0.025	.00086	.007		
Gold	0.050	.0018	.005		
Iron	0.10	.0044	.02		
Lead	0.010	.0016	.0017	0.00030	<0.010
Magnesium	5.0	.043	.059		
Manganese	0.015	.00017	.00081		
Molybdenum	0.10	.0004	.00077		
Nickel	0.040	.00045	.00057		
Palladium	0.050	.002	.0076		
Platinum	0.050	.0087	.014		
Potassium	5.0	.024	.16		
Selenium	0.025	.0014	.0048	0.0033	<0.025
Silicon	0.10	.0021	.045		
Silver	0.0050	.00047	.001	0.00030	<0.0050
Sodium	5.0	.042	.06		
Sulfur	0.050	.0029	.008		
Strontium	0.010	.0001	.00026		
Thallium	0.0050	.0017	.0019		
Tin	0.10	.0015	.0014		
Titanium	0.050	.00048	.0018		
Tungsten	0.10	.0093	.016		
Vanadium	0.010	.0009	.0028		
Zinc	0.10	.00091	.0005		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419 Methods: SW846 6010C
Matrix Type: LEACHATE Units: mg/l

Prep Date:

Metal			
Zirconium	0.050	.00076	.0022

Associated samples MP22419: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 01/23/14

Metal	MC27780-1A Original	MS	Spikelot MPICP	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	0.53	0.50	106.0	75-125
Barium	0.13	2.1	2.0	98.5	75-125
Beryllium					
Boron					
Cadmium	0.00030	0.51	0.50	101.9	75-125
Calcium					
Chromium	0.0015	0.52	0.50	103.7	75-125
Cobalt					
Copper					
Gold					
Iron					
Lead	0.0042	1.0	1.0	99.6	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel					
Palladium					
Platinum					
Potassium					
Selenium	0.0028	0.50	0.50	99.4	75-125
Silicon					
Silver	0.0	0.20	0.20	100.0	75-125
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419 Methods: SW846 6010C
Matrix Type: LEACHATE Units: mg/l

Prep Date:

Metal

Zirconium

Associated samples MP22419: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 01/23/14

Metal	MC27780-1A Original	MSD	Spikelot MPICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	0.53	0.50	106.0	0.0	20
Barium	0.13	2.1	2.0	98.5	0.0	20
Beryllium						
Boron						
Cadmium	0.00030	0.51	0.50	101.9	0.0	20
Calcium						
Chromium	0.0015	0.51	0.50	101.7	1.9	20
Cobalt						
Copper						
Gold						
Iron						
Lead	0.0042	1.0	1.0	99.6	0.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Palladium						
Platinum						
Potassium						
Selenium	0.0028	0.50	0.50	99.4	0.0	20
Silicon						
Silver	0.0	0.20	0.20	100.0	0.0	20
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419 Methods: SW846 6010C
Matrix Type: LEACHATE Units: mg/l

Prep Date:

Metal

Zirconium

Associated samples MP22419: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			01/23/14					01/23/14	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	0.53	0.50	106.0	80-120	0.53	0.50	106.0	0.0	20
Barium	2.0	2.0	100.0	80-120	2.0	2.0	100.0	0.0	20
Beryllium									
Boron									
Cadmium	0.51	0.50	102.0	80-120	0.51	0.50	102.0	0.0	20
Calcium									
Chromium	0.52	0.50	104.0	80-120	0.52	0.50	104.0	0.0	20
Cobalt									
Copper									
Gold									
Iron									
Lead	1.0	1.0	100.0	80-120	1.0	1.0	100.0	0.0	20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Palladium									
Platinum									
Potassium									
Selenium	0.50	0.50	100.0	80-120	0.49	0.50	98.0	2.0	20
Silicon									
Silver	0.20	0.20	100.0	80-120	0.20	0.20	100.0	0.0	20
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:

Metal
Zirconium

Associated samples MP22419: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/23/14

Metal	MC27780-1A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	133	141	5.5	0-10
Beryllium				
Boron				
Cadmium	0.300	1.10	266.7(a)	0-10
Calcium				
Chromium	1.50	0.00	100.0(a)	0-10
Cobalt				
Copper				
Gold				
Iron				
Lead	4.20	8.80	109.5(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Platinum				
Potassium				
Selenium	2.80	0.00	100.0(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22419 Methods: SW846 6010C
Matrix Type: LEACHATE Units: ug/l

Prep Date:

Metal
Zirconium

Associated samples MP22419: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22420 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 01/23/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000018	.000067	-0.000021	<0.00020

Associated samples MP22420: MC27780-21A, MC27780-22A, MC27780-23A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22420
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 01/23/14 01/23/14

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	0.0031	0.0030	103.3	80-120	0.0031	0.0030	103.3	0.0	

Associated samples MP22420: MC27780-21A, MC27780-22A, MC27780-23A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22421 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 01/23/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000018	.000067	-0.000040	<0.00020

Associated samples MP22421: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22421
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 01/23/14

Metal	MC27780-1A Original	MS	Spikelot HGRWS1	% Rec	QC Limits
Mercury	0.0	0.0029	0.0030	96.7	75-125

Associated samples MP22421: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22421 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 01/23/14

Metal	MC27780-1A Original	MSD	Spikelot HGRWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0030	0.0030	100.0	3.4	

Associated samples MP22421: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22421
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 01/23/14 01/23/14

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	0.0030	0.0030	100.0	80-120	0.0029	0.0030	96.7	3.4	

Associated samples MP22421: MC27780-1A, MC27780-2A, MC27780-3A, MC27780-4A, MC27780-5A, MC27780-6A, MC27780-7A, MC27780-8A, MC27780-9A, MC27780-10A, MC27780-11A, MC27780-12A, MC27780-13A, MC27780-14A, MC27780-15A, MC27780-16A, MC27780-17A, MC27780-18A, MC27780-19A, MC27780-20A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/24/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.61	3.6		
Antimony	1.0	.11	.15		
Arsenic	1.0	.22	.21	0.080	<1.0
Barium	5.0	.019	.073	0.18	<5.0
Beryllium	0.40	.008	.024		
Boron	10	.081	.11		
Cadmium	0.40	.022	.042	0.030	<0.40
Calcium	500	.85	6.3		
Chromium	1.0	.074	.095	0.020	<1.0
Cobalt	5.0	.028	.047		
Copper	2.5	.086	.56		
Gold	5.0	.18	.43		
Iron	10	.44	.87		
Lead	1.0	.16	.17	0.040	<1.0
Magnesium	500	4.3	5.1		
Manganese	1.5	.017	.04		
Molybdenum	10	.04	.07		
Nickel	4.0	.045	.044		
Palladium	5.0	.2	.64		
Platinum	5.0	.87	1.5		
Potassium	500	2.4	8.6		
Selenium	1.0	.14	.35	-0.16	<1.0
Silicon	10	.21	3.3		
Silver	0.50	.047	.13	-0.020	<0.50
Sodium	500	4.2	3.3		
Sulfur	5.0	.29	.82		
Strontium	1.0	.01	.03		
Thallium	1.0	.17	.13		
Tin	10	.15	.14		
Titanium	5.0	.048	.14		
Tungsten	10	.93	.94		
Vanadium	1.0	.09	.13		
Zinc	2.0	.091	.16		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal			
Zirconium	5.0	.076	.088

Associated samples MP22425: MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.8.1

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/24/14

Metal	MC27780-22 Original	MS	Spikelot MPICP	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	0.69	47.9	46.8	100.8	75-125
Barium	17.3	200	187	97.5	75-125
Beryllium	anr				
Boron					
Cadmium	0.066	46.0	46.8	98.1	75-125
Calcium	anr				
Chromium	4.8	49.6	46.8	95.7	75-125
Cobalt					
Copper					
Gold					
Iron					
Lead	24.7	113	93.6	94.3	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Palladium					
Platinum					
Potassium					
Selenium	0.0	44.3	46.8	94.6	75-125
Silicon					
Silver	0.0	18.1	18.7	96.6	75-125
Sodium					
Sulfur					
Strontium					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zinc	anr				

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal

Zirconium

Associated samples MP22425: MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/24/14

Metal	MC27780-22 Original	MSD	Spikelot MPICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	0.69	49.2	46.8	103.6	2.7	20
Barium	17.3	200	187	97.5	0.0	20
Beryllium	anr					
Boron						
Cadmium	0.066	46.9	46.8	100.0	1.9	20
Calcium	anr					
Chromium	4.8	49.3	46.8	95.0	0.6	20
Cobalt						
Copper						
Gold						
Iron						
Lead	24.7	119	93.6	100.7	5.2	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Palladium						
Platinum						
Potassium						
Selenium	0.0	45.1	46.8	96.3	1.8	20
Silicon						
Silver	0.0	18.3	18.7	97.7	1.1	20
Sodium						
Sulfur						
Strontium						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal

Zirconium

Associated samples MP22425: MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:	01/24/14					01/24/14			
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	52.6	50	105.2	80-120	54.2	50	108.4	3.0	20
Barium	201	200	100.5	80-120	201	200	100.5	0.0	20
Beryllium	anr								
Boron									
Cadmium	51.2	50	102.4	80-120	51.7	50	103.4	1.0	20
Calcium	anr								
Chromium	49.0	50	98.0	80-120	50.0	50	100.0	2.0	20
Cobalt									
Copper									
Gold									
Iron									
Lead	98.5	100	98.5	80-120	101	100	101.0	2.5	20
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	48.6	50	97.2	80-120	50.7	50	101.4	4.2	20
Silicon									
Silver	19.7	20	98.5	80-120	19.7	20	98.5	0.0	20
Sodium									
Sulfur									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal

Zirconium

Associated samples MP22425: MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 01/24/14

Metal	LCS Result	Spikelot MPLCS78	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	98.2	94.5	103.9	82-117
Barium	174	166	104.8	83-116
Beryllium	anr			
Boron				
Cadmium	62.7	59.9	104.7	84-116
Calcium	anr			
Chromium	70.3	69.3	101.4	81-119
Cobalt				
Copper				
Gold				
Iron				
Lead	92.0	91.7	100.3	82-118
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	166	159	104.4	79-121
Silicon				
Silver	35.2	33.9	103.8	66-134
Sodium				
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:

Metal

Zirconium

Associated samples MP22425: MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/24/14

Metal	MC27780-22 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	7.30	0.00	100.0(a)	0-10
Barium	183	198	8.2	0-10
Beryllium	anr			
Boron				
Cadmium	0.700	0.00	100.0(a)	0-10
Calcium	anr			
Chromium	51.0	53.0	3.9	0-10
Cobalt				
Copper				
Gold				
Iron				
Lead	261	282	7.8	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425 Methods: SW846 6010C
Matrix Type: SOLID Units: ug/l

Prep Date:

Metal
Zirconium

Associated samples MP22425: MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/24/14

Metal	Sample ml	Final ml	MC27780-22 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Gold										
Iron										
Lead										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Palladium										
Platinum										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Sulfur										
Strontium										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: MC27780
Account: CDRMRHCT - CDR Maguire
Project: Bridge 1358-Rte 139 Over Branford River, Branford, CT

QC Batch ID: MP22425 Methods: SW846 6010C
Matrix Type: SOLID Units: ug/l

Prep Date:

Metal

Zirconium

Associated samples MP22425: MC27780-20, MC27780-21, MC27780-22, MC27780-23

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

APPENDIX C
DQA & DUE Worksheets

DATA USABILITY EVALUATION WORKSHEET

Project Name: Replacement of Bridge #01358, Route 139 - Branford, CT

Laboratory: Accutest Laboratories

Laboratory Report: MC27780

Date Samples Collected: January 20, 2014

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	
Data Package Inspection	
Reasonable Confidence Evaluation	
Chain of Custody Evaluation	
Sample Result Evaluation	
Sample Preservation & Holding Time Evaluation	
Blank Evaluation	Method criteria shows potential high and low biases for VOCs and SVOCs. Results meet technical requirements.
Laboratory Control Samples	
Surrogates	Method criteria show potential high and low biases for one or more surrogates due to dilution and matrix interference. Confirmed by reanalyses, no impact to data usability.
Site-Specific Matrix Spikes and Matrix Spike Duplicates	
Tentatively Identified Compounds	
Other QC Data	% Difference exceeds method criteria. Non-directional bias, no impact to data usability.

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.

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, LCS/LCSD RPD, Surrogates and QC Recovery 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 at low to elevated concentrations that exceed applicable RSR criteria. Task 310 Plans and Specifications will be prepared to address the soil 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 soil in areas requiring special treatment and/or handling during the construction phase of the project.

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - SOIL SAMPLES

Replacement of Bridge #01358, Route 139 - Branford, CT

Laboratory:	Accutest Laboratories
SDG:	MC27780
Date Samples Collected:	1/20/2014
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	Sample Date	Compound(s)	QC OUTLIER	POTENTIAL BIAS	COMMENTS	PRELIMINARY DUE CONSIDERATIONS/NOTES
VOC Analysis - 8260						
SED-1	1/20/2014	Acetone	Blank Spike	High	Analytes above upper control limit. Meets program technical requirements	No impact to data usability
SED-2						
SED-3						
SED-4						
GP-1 1'-3'						
GP-2 1'-3'						
GP-3 1'-3'						
GP-4 1'-3'						
GP-5 1'-3'						
GP-6 1'-3'						
GP-7 1'-3'						
GP-8 1'-3'						
GP-9 1'-3'						
GP-10 1'-3'						
GP-11 1'-3'						
GP-12 1'-3'						
GP-13 1'-3'						
GP-14 1'-3'						
GP-15 1'-3'						
GP-16 1'-3'						
GP-17 1'-3'	1/20/2014	Dichlorofluoromethane	Blank Spike	Low	Analytes below lower control limit. Meets program technical requirements	No impact to data usability
GP-18 1'-3'						
GP-19 1'-3'						

SVOC Analysis - 8270						
GP-17 1'-3'	1/20/2014	2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Aniline, 4-Chloroaniline, Hexachlorocyclopentadiene, Pyridine	Blank Spike	Low	Analytes below lower control limit. Meets program technical requirements	No impact to data usability
GP-18 1'-3'						
GP-19 1'-3'						
SED-1	1/20/2014	4,6-Dinitro-o-cresol	Blank Spike	High	Analytes above upper control limit. Elevated concentrations not detected in samples	No impact to data usability
SED-2						
SED-3						
GP-1 1'-3'						
GP-2 1'-3'						
GP-3 1'-3'						
GP-4 1'-3'						
GP-5 1'-3'						
GP-6 1'-3'						
GP-7 1'-3'						
GP-8 1'-3'						
GP-9 1'-3'						
GP-10 1'-3'						
GP-11 1'-3'						
GP-12 1'-3'						
GP-13 1'-3'						
GP-14 1'-3'						
GP-15 1'-3'						
GP-16 1'-3'						
GP-17 1'-3'						
GP-18 1'-3'						
GP-19 1'-3'						
SED-4	1/20/2014	bis(2-Chloroisopropyl)ether, Hexachlorocyclopentadiene	Blank Spike	High	Analytes above upper control limit. Elevated concentrations not detected in samples	No impact to data usability
GP-14 1'-3'	1/20/2014	Phenol-d5	Surrogate	Low	Below lower recovery limit due to dilution	No impact to data usability
GP-9 1'-3'	1/20/2014	Tetrachloro-m-xylene	Surrogate	Low	Below lower recovery limit due to matrix interferance. Confirmed by reanalysis	No impact to data usability
GP-11 1'-3'						
GP-15 1'-3'						
SED-3	1/20/2014	Decachlorobiphenyl	Surrogate	High	Above upper recovery limit due to matrix interferance. Confirmed by reanalysis	No impact to data usability
GP-9 1'-3'						
GP-11 1'-3'						
GP-13 1'-3'						
GP-15 1'-3'						
ICP Metals - Soil						
GP-4 1'-3'	1/20/2014	Arsenic, Cadmium, Selenium	% DIF	Non-Directional	Recoveries outside QC limits. Elevated concentrations not detected in samples	No impact to data usability
GP-4 1'-3'	1/20/2014	Barium, Chromium, Lead	% DIF	Non-Directional	Recoveries outside QC limits. Serial dilution indicates possible matrix interference	No impact to data usability
GP-4 1'-3'	1/20/2014	Silver	% DIF	Non-Directional	No criteria reported	No impact to data usability
SED-1	1/20/2014	Chromium, Lead, Selenium	% DIF	Non-Directional	Recoveries outside QC limits. Elevated concentrations not detected in samples	No impact to data usability
SED-2	1/20/2014	Arsenic, Cadmium, Silver	% DIF	Non-Directional	No criteria reported	No impact to data usability
GP-18 1'-3'	1/20/2014	Arsenic, Cadmium	% DIF	Non-Directional	Recoveries outside QC limits. Elevated concentrations not detected in samples	No impact to data usability
GP-18 1'-3'	1/20/2014	Selenium, Silver	% DIF	Non-Directional	No criteria reported	No impact to data usability