# Electronic Transmittal Form for DEEP Remediation and LUST Secure File Transfer (SFT)

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
REMEDIATION DIVISION
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM
www.ct.gov/deep

This Electronic Transmittal Form must be completed and included as the cover sheet of your electronic document when uploading a document to the Connecticut SFT website. Requirements for Transmittals through the SFT website:

- Only document types identified in the dropdown lists in Part III below may be submitted through the SFT website.
- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
- Files must be formatted as PDF/A and use the appropriate naming convention:
  - For Remediation Filings: **REM_RemID_DocumentType_DateofDocument**
    **Example:** REM_1234_MonitoringReport_01-01-2001
  - For LUST Filings: **LUST_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument**
    **Example:** LUST_1MainStreet_Hartford_ESA_01-01-2001
    **Note:** For "AbbreviationForDocumentType" use appropriate abbreviation at Transmittal of Documents

**Part I: Primary Recipient*: Remediation Program** (* required)

| For Remediation documents: | For LUST documents: |
|---|---|
| Primary Program*: Significant Environmental Hazard | UST Facility ID: (if applicable) |
| Rem ID*: 6617 | Spill Case Number: (if known) |

**Part II: Site Information**

Site Name*: Winsted Former Manufactured Gas Plant
Site Address*: 276 Main Street (corner of Case Ave and Gay St)
City/Town*: Winsted State: CT Zip Code: 06098

Secondary Programs (complete as many as applicable for this document):

| | |
|---|---|
| Program: Select Secondary Program | Project ID: |
| Program: Select Secondary Program | Project ID: |
| Program: Select Secondary Program | Project ID: |
| Program: Select Secondary Program | Project ID: |

Provide Project ID for each secondary program if it is known.
Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, etc.)

**Part III: Document Information** (document type required for appropriate program[s] only)

Remediation*: SEH Status Update- Soil
LUST*: LUST Document Type
Date of Document*: 5/28/2021 Version: Final

**Part IV: Submitter Information**

Name*: Dustin Bytautas
E-mail*: dustin.bytautas@aecom.com
Name of company/business this document is being submitted on behalf of: *
The Connecticut Light and Power Company dba Eversource Energy

EVERSOURCE ENERGY

Environmental Affairs Department
107 Selden Street, BMN2
Berlin, CT 06037

May 28, 2021

Ms. MaryAnne Danyluk
Department of Energy and Environmental Protection
Remediation Division
79 Elm Street
Hartford, CT 06106-5127

Reference: **Winsted Former Manufactured Gas Plant**
**REM ID 6617**
**Significant Environmental Hazard Status Update Form: Soil**

Dear Ms. Danyluk:

The Connecticut Light and Power Company dba Eversource Energy (Eversource) submits the enclosed Significant Environmental Hazard (SEH) Status Update Form: Soil for the Winsted Former Manufactured Gas Plant (MGP) located at 276 Main Street and the corner of Case Avenue and Gay Street in Winsted, Winchester, Connecticut (the Site). An SEH Notification (SEHN) was submitted to the Connecticut Department of Energy and Environmental Protection (CT DEEP) on January 18, 1999. The SEHN reported that shallow soils (upper two feet) have been impacted with benzo(a)pyrene at concentrations that exceed the SEH Condition Notification Threshold Concentration of 30 times the Remediation Standard Regulation Industrial/Commercial Direct Exposure Criteria.

The affected soils are located in two areas beneath an asphalt cover, the integrity of which has been monitored annually and intact since the notification. In 2019 and 2020, an SEH Status Update Form: Soil was submitted to CT DEEP as required. In 2020, the C1 boring SEH area was fully delineated and the F1 boring SEH area was almost fully delineated. New asphalt pavement was installed over both areas.

If you have any questions or require additional information regarding this submittal, please contact me at (860) 665-5751.

Sincerely,
Eversource Energy Service Company

Drew Blicharz

Drew P. Blicharz, CHMM
Environmental Specialist – Remediation

Enclosure: Significant Environmental Hazard Update Form: Soil

Complete and submit this form, accompanied by attachments as requested, to meet the requirement under CGS section 22a-6u(k)(2) to provide a description of any continuing actions being taken to monitor, mitigate, or abate a Significant Environmental Hazard condition in surface soil.

RemID# **DEEP Use Only** SEH#

## Part I – Site Identification

Identify the parcel at which a Significant Environmental Hazard (SEH) condition was identified:

Name of Site: Winsted Former Manufactured Gas Plant

Address or Location: 276 Main Street (corner of Case Ave and Gay St)

City/Town: Winsted State: CT Zip Code: 06098

Date(s) DEEP was notified: 1/18/99 DEEP Case Manager (if known): MARYANNE DANYLUK

## Part II – SEH Information

**A. SEH Condition Reported**

☒ 30x Industrial/Commercial Direct Expose Criteria (DEC) (for industrial/commercial use, i.e. non-residential)

☐ 15x Industrial/Commercial DEC (for metals or PCBs at industrial/commercial properties that are within 300 feet of a current residential use)

☐ 15x Residential DEC (for current residential use)

**B.** Has the extent of the SEH condition been fully delineated horizontally and vertically in the top two feet of soil, pursuant to CGS section 22a-6u(d)(3)(A)?

Yes ☐ No ☒ Date report delineating SEH condition submitted:

**C.** A site map is attached depicting the specific locations and extent of the soil contamination, including contaminant concentrations that exceed SEH notification thresholds. ☒

## Part III – SEH Mitigation Status Update

Describe any steps being taken to delineate, monitor, mitigate, and/or abate the SEH condition and any proposed future actions, pursuant to CGS section 22a-6u(d)(3).

**A. Report Frequency**

1. Annual reports are due on **June 1st** of each year using this form.
   This submittal is the annual report. ☒
2. **In the event that mitigation measures fail, a supplemental report, using this form, is required within 30 days of discovery of such event and must describe how this condition was addressed in C.4. below.** This submittal is a supplemental report. ☐

**B. SEH Mitigation**

1. Area that exceeds SEH soil notification thresholds is:

| | | |
|---|---|---|
| Covered by pavement maintained in good condition | YES ☒ | NO ☐ |
| Fenced off from the general public | YES ☐ | NO ☒ |
| Identified by posted warning signs | YES ☒ | NO ☐ |

2. Provide any additional details of the mitigation measures taken to prevent exposure to the contaminated soil exceeding the SEH notification threshold. CHECK IF NONE ☒

Sample locations C1 and F1 were delineated in August and September 2020. The delineation is complete in the C1 area; however, the presence of concrete at one foot below surface to the north and a concrete building slab to the southwest precluded assessment of the upper two feet of soil in the F1 area. New asphalt pavement was installed over existing pavement in these areas with a combined bituminous concrete thickness of greater than 3 inches to maintain the previous mitigation measures.

**C. Inspection and Maintenance of Mitigation Measures**

1. List dates of inspection since last annual report (mm/dd/yy):

| | | | |
|---|---|---|---|
| 1/13/21 | 5/14/21 | | |

2. Checklist for inspection of mitigation measures for most recent inspection:

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | ☐ NA | Cracking of asphalt or concrete? |
| ☐ Yes | ☒ No | ☐ NA | Changes in surface profile (settling, potholes, roots)? |
| ☐ Yes | ☐ No | ☒ NA | Exposed geotextile membrane or soil erosion? |
| ☒ Yes | ☐ No | ☐ NA | New construction, paving, or landscaping? |
| ☒ Yes | ☐ No | ☐ NA | Opening in fence that could allow access? |
| ☒ Yes | ☐ No | ☐ NA | Warning signs present and legible? |
| ☐ Yes | ☐ No | ☐ NA | Other conditions - describe: |

3. Provide current photo documentation of mitigation measures.

Date of photos: 1/13/21 and 5/14/21 PHOTOS ATTACHED ☒

4. Describe any maintenance of mitigation measures that has been completed since the last report. CHECK IF NONE ☐

New asphalt pavement was installed over existing pavement with a combined bituminous concrete thickness of greater than 3 inches.

## Part IV – SEH Abatement Update

**A. Abatement Status**

1. ☐ SEH condition has been abated (complete Part IV.B.)
2. Date abatement plan (to be) submitted:
3. Anticipated date of completion of abatement:

**B. Abatement Details**

1. SEH condition has been abated such that notice would not be required under CGS section 22a-6u(k)(3) by:
   - ☐ Removal of soil above notification threshold values in the top two feet of soil.
   - ☐ Rendering the soil inaccessible as defined in the Remediation Standard Regulations ("RSRs," sections 22a-133k-1 through -3 of the Regulations of Connecticut State Agencies).
   - ☐ Remediation of the release in accordance with the RSRs.
2. ☐ A report describing actions taken to permanently abate the SEH condition is attached.
   a. ☐ A table of analytical data that are the basis for determining that a SEH condition no longer exists is included in the attached report.
   b. ☐ A site map indicating the location of samples identifying that the SEH condition has been fully abated is included in the attached report.
3. If a report(s) has (have) already been submitted that documents the abatement of the SEH condition, list the reports below for reference. CHECK IF NONE ☐

| Report Name | Preparer | Submittal Date (mm/dd/yy) | DEEP Unit Name (where submitted) |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

## Part V – Party Identification and Contact Information

**A. Site Owner** Has this information changed? Yes ☐ No ☒

Owner Name: The Connecticut Light and Power Company dba Eversource Energy
Contact Person: Drew P. Blicharz Title: Environmental Specialist
Contact E-mail: drew.blicharz@eversource.com Contact Phone:8606655751 Ext.
Mailing Address: 107 Selden Street
City/Town: Berlin State:CT Zip Code: 06037

**B. Environmental Consultant** Has this information changed? Yes ☒ No ☐

Name: Larry Hogan Title: Associate Vice President
Firm: AECOM
E-mail: larry.hogan@aecom.com Phone: 9789052249 Ext.
Mailing Address: 250 Apollo Drive
City/Town: Chelmsford State: MA Zip Code: 01824

**C. Entity Acting on Behalf of the Owner** Has this information changed? Yes ☐ No ☒

*If the person signing this form is not the site owner, describe that person's relationship to the site and its owner and enter contact information below. If an entity who is not the site owner is acting on behalf of the owner to mitigate or abate the hazard condition, provide details of this agreement.*

Contact Name:

Contact Person: Title:

Contact E-mail: Contact Phone: Ext.

Mailing Address:

City/Town: State: Zip Code:

## Part VI – Signature of Property Owner or Entity Acting on Owner's Behalf

**"I have personally examined and am familiar with the information submitted in this document and all attachments, and certify that based on reasonable investigation the submitted information is true and accurate to the best of my knowledge and belief. I certify that this form is complete and accurate as prescribed by the Commissioner without alteration of the text."**

Name: Drew P. Blicharz Title (if applicable): Environmental Specialist

Signature Drew P. Blicharz Date: 5/28/2021

SEND COMPLETED FORM TO: REMEDIATION DIVISION
<ATTN: CASE MANAGER, IF KNOWN>
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

AECOM Imagine it. Delivered.

AECOM
500 Enterprise Drive
Rocky Hill, CT 06067
aecom.com

**Project name:**
Winsted Former MGP Site

**Project ref:**
60637859

**From:**
AECOM

**Date:**
May 28, 2021

**To:**
Ms. MaryAnne Danyluk
Department of Energy and Environmental Protection
Remediation Division
79 Elm Street
Hartford, CT 06106-5127

**CC:**
Drew Blicharz, Eversource

**Subject: Significant Environmental Hazard Delineation and Paving Activities**
**Winsted Former Manufactured Gas Plant Site, REM ID 6617**
**276 Main Street and the corner of Case Avenue and Gay Street, Winsted, CT**

## Introduction

On behalf of the Connecticut Light and Power Company dba Eversource Energy (Eversource) AECOM has prepared this technical memorandum in accordance with Connecticut General Statutes Section 22a-6u to summarize activities related to Significant Environmental Hazard (S.E.H.) conditions that were previously identified at the Winsted Former Manufactured Gas Plant (MGP) site located at 276 Main Street and the corner of Case Avenue and Gay Street in Winsted, Winchester, Connecticut (the Site). The Site location is depicted on **Figure 1**. The Site is developed with a hardware store building that has frontage on Main Street and a mostly paved parking lot with access through the fence line from Case Avenue and Gay Street which is used as a staging yard by Eversource and its contractors, as shown on **Figure 2**.

There are two locations at the Site where S.E.H. conditions were identified in surficial soils related to elevated concentrations of benzo(a)pyrene (BaP). Specifically, BaP was detected at concentrations exceeding the Connecticut Department of Energy and Environmental Protection (CT DEEP) S.E.H. Condition Notification Threshold Concentration of 30 times the Remediation Standard Regulation (RSR) Industrial/Commercial Direct Exposure Criteria (IC DEC) of 1 milligram per kilogram (mg/kg) that applies to surficial soils within 2 feet of the ground surface at a commercial/industrial property. These two locations were identified during a sampling program conducted in 1998. One sample collected from 0.5 to 4 feet from soil boring C1 contained BaP at a concentration of 44 mg/kg and another sample collected from 0.5 to 4 feet from soil boring F1 contained BaP at a concentration of 38 mg/kg. Fill material was also encountered in the top two feet at these soil borings. At the time, both the C1 and F1 areas were covered with asphalt pavement. These two locations are depicted on **Figure 2**. Eversource notified CT DEEP of the S.E.H. condition in surficial soils located within 2 feet below grade in accordance with PA 98-134 on January 18, 1999. CT DEEP responded in a letter dated March 26, 1999 indicating that no action was required solely as a result of the notification since the polluted soils were located beneath pavement limiting the potential for exposure. The letter indicated that CT DEEP requested to be notified if the integrity of the pavement became compromised. The 2020 S.E.H. Status Update Form for Soil dated May 6, 2020 noted that the pavement in the C1 boring S.E.H Area had deteriorated. Eversource paved the C1 and F1 S.E.H. areas on November 2,2020 as discussed below.

This technical memorandum summarizes activities performed to delineate the S.E.H. conditions at soil borings C1 and F1 and to improve the existing pavement mitigation measure through the installation of new asphalt pavement at these areas.

## Summary of Activities

### Investigation

On August 3, 2020, AECOM conducted a soil sampling investigation to delineate the BaP-impacted shallow soils located at C1 and F1. AECOM used triangulation methods by measuring distances from known points as depicted on a historical plan and in the field to locate the C1 and F1 borings. Prior to sampling, AECOM's drilling subcontractor Cisco Geotechnical LLC (Cisco) of Glastonbury, Connecticut notified the Call Before You Dig (CBYD) system and AECOM oversaw a ground penetration radar (GPR) and electromagnetic induction (EM) subsurface utility survey and mark-out performed by Corbuilt, LLC. Following the private subsurface utility mark-out activities, Cisco used a hammer drill to remove the asphalt prior to advancing borings up to two feet below ground surface (bgs) at 18 locations using a hand auger. The hand auger was decontaminated after each sample was collected. A boring was advanced in the approximate location of each of the original C1 and F1 borings and were designated as C1-RE and F1-RE respectively, four borings were advanced from five-foot directional step-outs from C1-RE and F1-RE (for a total of eight borings), and four borings were advanced from ten-foot directional step-outs from C1-RE and F1-RE (for a total of eight additional borings). Soil encountered in the borings was primarily dark brown silty sand, with fill material (ash) and tar odors observed in multiple borings in the F1 and C1 areas. Hand auger refusal was encountered at one-foot bgs due to the presence of concrete at boring locations F1-N2 and F1-N3. Delineation boring locations are shown on **Figure 3** and boring logs are included in **Attachment A**.

A total of 18 discrete samples and one duplicate sample were primarily collected from 0.5 to 2 feet bgs. One soil sample, F1-N2, was collected from 0.5 to 1 feet because of hand auger refusal on concrete. A soil sample was not collected from boring F1-N3. Each soil sample was placed on ice and relinquished under chain of custody to Phoenix Environmental Laboratories (Phoenix), a Connecticut Department of Public Health (CT DPH) certified laboratory to be analyzed for polycyclic aromatic hydrocarbons (PAHs) by Method SW-846 8270D by using CT DEEP Reasonable Confidence Protocols (RCPs). Sample results were compared to the S.E.H. Condition Notification Threshold Concentration of 30 times the IC DEC. At the C1 boring area, BaP and other PAH compounds were not detected at concentrations above the established S.E.H. Condition Notification Threshold Concentrations. At the F1 boring area, concentrations of BaP were detected above the S.E.H Notification Threshold Concentration in F1-N1 from 0.5 to 2 feet and duplicate sample at 39 mg/kg/38 mg/Kg and in F1-S2 from 0.5 to 2 feet at 72 mg/kg. No other PAHs were detected above the established S.E.H Condition Notification Threshold Concentrations. Based on these results, additional delineation efforts were warranted at the F1-S2 soil boring location. However, concrete encountered at 1 foot below grade that could not be penetrated using the hand auger precluded further delineation of soils below 1 foot at the F1-N2 and F1-N3 locations with hand auger borings. The thickness of the concrete is not known; and concentrations of BaP below the concrete encountered at F1-N2 and F1-N3 between 1 and 2 feet relative to the S.E.H. threshold could not be assessed, thus presenting a data gap in the delineation of the S.E.H. condition for the northern portion of the F1 area.

On September 8, 2020, Cisco advanced six hand-augered borings to the south and east of the F1-S2 to assess the exceedance of the S.E.H. Condition Notification Threshold Concentration. Again, intrusive activities began after the CBYD ticket had been confirmed. The hand auger was decontaminated after each sample was collected. Three borings were advanced to the south of F1-S2 in five-foot increments, and three borings were advanced to the east in five-foot step-out increments. No borings were advanced to the west due to the presence of an approximately 53 by 17-foot concrete slab that is related to a former structure. This slab is raised up at least 3-inches relative to the surrounding grade and its entire thickness is not known. The five-foot directional step out samples, F1-S3(0.5-2') and F1-SE1(0.5-2'), were placed on ice and submitted to Phoenix under chain of custody and analyzed for PAHs by Method SW-846 8270D using RCP methods. The ten-foot and fifteen-foot directional samples were placed on hold to allow for the review of analytical data from the F1-S3 and F1-SE1 samples. Concentrations of BaP or other PAH compounds were not detected at concentrations above the S.E.H. Condition Notification Threshold Concentration in the F1-S3 and F1-SE1 samples. As a result, the soil samples in the remaining step-out borings were not analyzed. Therefore, the S.E.H. conditions have been delineated in the south and southeastern directions in the F1 area. However, concentrations of BaP below the concrete slab located in the southwestern portion of the F1 area relative to the S.E.H. threshold could not be fully assessed. The surficial soils in the area at the F1 location are isolated by concrete at and below grade and are located beneath new pavement as discussed below.

Analytical sample results from F1-S3 and F1-SE1 are presented in **Table 1** and laboratory reports are included as **Attachment B**.

### Data Validation and Usability

Quality assurance and quality control (QA/QC) samples including a field duplicate matrix spike/matrix spike duplicates (MS/MSD) were collected in both the August 3rd and September 8th sampling events; however, in the September 8th event only the field duplicate was analyzed for PAHs because the MS/MSD sample was associated with a step-out boring location that was not needed for delineation. AECOM reviewed each laboratory sample delivery group package for adherence to the respective analytical method and the CT DEEP RCP requirements. Non-conformances and other sample analytical related issues identified in one or more of the laboratory analytical data packages did not change the overall usability of the collected analytical data for the delineation of the S.E.H conditions at the C1 and F1 boring locations. Data quality assessment worksheets are included in **Attachment C**.

### Paving Installation Activities

On November 2, 2020, Eversource facilitated the installation of new bituminous asphalt pavement over the S.E.H. investigation areas encompassing C1 and F1 boring areas. Eversource contracted Moran Environmental Recovery (MER) to subcontract Greenway Industries to perform the paving activities at these two locations. An approximately 15 foot by 25-foot area surrounding C1 and an approximately 22 foot by 28-foot area surrounding F1 were covered with a new layer of asphalt. The new pavement areas are shown on **Figure 4**. Excess asphalt was used to cover other areas where the existing pavement was observed in poor condition, also shown on **Figure 4.** Photos of these areas taken on November 2, 2020 after the new asphalt was installed on January 13, 2021, and on May 14, 2021 during the S.E.H condition inspection are provided in **Attachment D**.

## Conclusion

The S.E.H. conditions in surficial soils have been delineated in the C1 area; however, the presence of concrete hindered delineation efforts in the F1 area precluding complete delineation at this time. Both areas are now located beneath new asphalt pavement to limit the potential for exposure to this soil. Annual inspections of the pavement will continue. Future maintenance and repairs will be performed as needed.

Please call the undersigned with any questions or comments at 978.905.2100.

Sincerely,

Lawrence M. Hogan, PG, LEP
Associate Vice President
larry.hogan@aecom.com

Dustin Bytautas, PE
Project Manager
dustin.bytautas@aecom.com

enclosures:
Table 1 – S.E.H. Soil Analytical Data
Figure 1 – Site Location
Figure 2 – S.E.H. Original Sample Locations
Figure 3 – S.E.H. Delineation Sample Locations
Figure 4 – S.E.H. Areas and Asphalt Cap
Attachment A – Boring Logs
Attachment B – Analytical Laboratory Reports
Attachment C – Data Usability Evaluation
Attachment D – Photograph Log

# TABLES

Table 1
S.E.H. Soil Analytical Data
Winsted Former MGP Site
276 Main Street, Winsted, CT

| | | | | | Lab Sample ID | CG46341 | CG46342 | CG46343 | CG46340 | CG46344 | CG46348 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Collection Date | 8/3/2020 | 8/3/2020 | 8/3/2020 | 8/3/2020 | 8/3/2020 | 8/3/2020 |
| | | | | | Client ID | F1-RE (0.5-2`) 1 | F1-N1 (0.5-2`) 1 | F1-N1 (0.5-2`) 2 | F1-N2 (0.5-1`) 1 | F1-E1 (0.5-2`) 1 | F1-E2 (0.5-2`) 1 |
| | | | | | Matrix | Soil | Soil | Soil | Soil | Soil | Soil |
| Polynuclear Aromatic HC By SW8270D | CAS | Units | DEC I/C | DEC I/C APS | S.E.H. CNTC | Result | Result | Result | Result | Result | Result |
| 2-Methylnaphthalene | 91-57-6 | ug/Kg | NE | 1,000,000 | 30,000,000 | 42,000 | 5,000 | 5,700 | 770 | 2,500 | 16,000 |
| Acenaphthene | 83-32-9 | ug/Kg | NE | 2,500,000 | 75,000,000 | 42,000 | < 2900 | < 2900 | 280 | < 2700 | 510 |
| Acenaphthylene | 208-96-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 19,000 | 43,000 | 40,000 | 2,000 | 26,000 | 6,100 |
| Anthracene | 120-12-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | 30,000 | 15,000 | 15,000 | 1,300 | 14,000 | 3,100 |
| Benz(a)anthracene | 56-55-3 | ug/Kg | 7,800 | NE | 234,000 | 24,000 | 6,900 | 6,200 | 2,400 | 22,000 | 3,000 |
| Benzo(a)pyrene | 50-32-8 | ug/Kg | 1,000 | NE | 30,000 | 19,000 | 39,000 | 38,000 | 2,000 | 27,000 | 6,300 |
| Benzo(b)fluoranthene | 205-99-2 | ug/Kg | 7,800 | NE | 234,000 | 12,000 | 25,000 | 24,000 | 1,900 | 21,000 | 6,700 |
| Benzo(ghi)perylene | 191-24-2 | ug/Kg | NE | 78,000 | 2,340,000 | 8,400 | 25,000 | 24,000 | 1,100 | 22,000 | 6,600 |
| Benzo(k)fluoranthene | 207-08-9 | ug/Kg | 78,000 | NE | 2,340,000 | 13,000 | 14,000 | 13,000 | 1,700 | 16,000 | 3,200 |
| Chrysene | 218-01-9 | ug/Kg | NE | 780,000 | 23,400,000 | 27,000 | 9,500 | 8,700 | 2,800 | 19,000 | 3,500 |
| Dibenz(a,h)anthracene | 53-70-3 | ug/Kg | NE | 1,000 | 30,000 | 2,800 | 7,300 | 7,600 | 320 | 6,700 | 1,800 |
| Fluoranthene | 206-44-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 36,000 | 4,400 | 4,700 | 3,800 | 32,000 | 4,300 |
| Fluorene | 86-73-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | 48,000 | 11,000 | 11,000 | 1,300 | 8,700 | 870 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/Kg | NE | 7,800 | 234,000 | 8,800 | 24,000 | 23,000 | 1,100 | 23,000 | 6,500 |
| Naphthalene | 91-20-3 | ug/Kg | 2,500,000 | NE | 75,000,000 | 59,000 | 4,700 | 4,800 | 790 | 6,000 | 29,000 |
| Phenanthrene | 85-01-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 120,000 | 4,100 | 5,500 | 4,600 | 17,000 | 6,700 |
| Pyrene | 129-00-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 85,000 | 9,200 | 10,000 | 5,200 | 31,000 | 6,700 |

Notes:
Bold = Detected above laboratory reporting limit
< 2600 = Constituent not detected above laboratory reporting limits
S.E.H. CNTC = Signifcant Environmental Hazard Condition Notification Threshold Concentration
DEC I/C = Direct Exposure Criteria (Industrial/Commercial)
APS = Additional Polluting Substances
CAS = Chemical Abstract Service Registry Number
ug/kg = micrograms per kilogram
Result Exceeds I/C DEC
Result Exceeds S.E.H. (30x DEC)

**Table 1**
S.E.H. Soil Analytical Data
Winsted Former MGP Site
276 Main Street, Winsted, CT

| | | | | | Lab Sample ID | CG46346 | CG46345 | CG71958 | CG71960 | CG46349 | CG46347 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Collection Date | 8/3/2020 | 8/3/2020 | 9/8/2020 | 9/8/2020 | 8/3/2020 | 8/3/2020 |
| | | | | | Client ID | F1-S1 (0.5-2`) 1 | F1-S2 (0.5-2`) 1 | F1-S3(0.5-2)-1 | F1-SE1(0.5-2)-1 | F1-W1 (0.5-2`) 1 | F1-W2 (0.5-2`) 1 |
| | | | | | Matrix | Soil | Soil | Soil | Soil | Soil | Soil |
| Polynuclear Aromatic HC By SW8270D | CAS | Units | DEC I/C | DEC I/C APS | S.E.H. CNTC | Result | Result | Result | Result | Result | Result |
| 2-Methylnaphthalene | 91-57-6 | ug/Kg | NE | 1,000,000 | 30,000,000 | 5,400 | 4,900 | 1,000 | 1,800 | 2,900 | 1,400 |
| Acenaphthene | 83-32-9 | ug/Kg | NE | 2,500,000 | 75,000,000 | < 2700 | < 2700 | 260 | 440 | < 2600 | < 2700 |
| Acenaphthylene | 208-96-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 29,000 | 29,000 | 7,800 | 13,000 | 37,000 | 17,000 |
| Anthracene | 120-12-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | 11,000 | 16,000 | 5,600 | 3,700 | 15,000 | 5,900 |
| Benz(a)anthracene | 56-55-3 | ug/Kg | 7,800 | NE | 234,000 | 12,000 | 67,000 | 5,000 | 3,100 | 5,600 | 8,100 |
| Benzo(a)pyrene | 50-32-8 | ug/Kg | 1,000 | NE | 30,000 | 24,000 | 72,000 | 8,500 | 7,100 | 22,000 | 13,000 |
| Benzo(b)fluoranthene | 205-99-2 | ug/Kg | 7,800 | NE | 234,000 | 18,000 | 68,000 | 5,300 | 6,400 | 16,000 | 10,000 |
| Benzo(ghi)perylene | 191-24-2 | ug/Kg | NE | 78,000 | 2,340,000 | 18,000 | 33,000 | 10,000 | 11,000 | 22,000 | 14,000 |
| Benzo(k)fluoranthene | 207-08-9 | ug/Kg | 78,000 | NE | 2,340,000 | 12,000 | 51,000 | 3,600 | 3,500 | 11,000 | 8,000 |
| Chrysene | 218-01-9 | ug/Kg | NE | 780,000 | 23,400,000 | 12,000 | 59,000 | 5,600 | 3,600 | 7,000 | 9,600 |
| Dibenz(a,h)anthracene | 53-70-3 | ug/Kg | NE | 1,000 | 30,000 | 5,700 | 12,000 | 2,300 | 2,400 | 6,300 | 3,400 |
| Fluoranthene | 206-44-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 13,000 | 87,000 | 4,200 | 3,700 | 2,800 | 11,000 |
| Fluorene | 86-73-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | 8,400 | 8,700 | 2,100 | 2,900 | 8,100 | 4,000 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/Kg | NE | 7,800 | 234,000 | 18,000 | 41,000 | 7,100 | 8,700 | 20,000 | 12,000 |
| Naphthalene | 91-20-3 | ug/Kg | 2,500,000 | NE | 75,000,000 | 3,700 | 4,500 | 1,900 | 3,500 | < 2600 | < 2700 |
| Phenanthrene | 85-01-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 10,000 | 18,000 | 1,200 | 1,500 | < 2600 | 5,500 |
| Pyrene | 129-00-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 20,000 | 93,000 | 6,400 | 5,800 | 6,300 | 16,000 |

Notes:
Bold = Detected above laboratory reporting limit
< 2600 = Constituent not detected above laboratory reporting limits
S.E.H. CNTC = Signifcant Environmental Hazard Condition Notification Threshold Concentration
DEC I/C = Direct Exposure Criteria (Industrial/Commercial)
APS = Additional Polluting Substances
CAS = Chemical Abstract Service Registry Number
ug/kg = micrograms per kilogram
Result Exceeds I/C DEC
Result Exceeds S.E.H. (30x DEC)

**Table 1**
S.E.H. Soil Analytical Data
Winsted Former MGP Site
276 Main Street, Winsted, CT

| | | | | | Lab Sample ID | CG46350 | CG46353 | CG46356 | CG46352 | CG46355 | CG46354 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Collection Date | 8/3/2020 | 8/3/2020 | 8/3/2020 | 8/3/2020 | 8/3/2020 | 8/3/2020 |
| | | | | | Client ID | C1-RE (0.5-2`) 1 | C1-N1 (0.5-2`) 1 | C1-N2 (0.5-2`) 1 | C1-E1 (0.5-2`) 1 | C1-E2 (0.5-2`) 1 | C1-S1 (0.5-2`) 1 |
| | | | | | Matrix | Soil | Soil | Soil | Soil | Soil | Soil |
| Polynuclear Aromatic HC By SW8270D | CAS | Units | DEC I/C | DEC I/C APS | S.E.H. CNTC | Result | Result | Result | Result | Result | Result |
| 2-Methylnaphthalene | 91-57-6 | ug/Kg | NE | 1,000,000 | 30,000,000 | 320 | 290 | 460 | < 1000 | 1,100 | 370 |
| Acenaphthene | 83-32-9 | ug/Kg | NE | 2,500,000 | 75,000,000 | < 270 | < 260 | < 280 | < 2400 | < 280 | < 260 |
| Acenaphthylene | 208-96-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 1,300 | 2,600 | 2,600 | < 2400 | 9,000 | 1,800 |
| Anthracene | 120-12-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | 530 | 1,000 | 840 | < 2400 | 6,500 | 700 |
| Benz(a)anthracene | 56-55-3 | ug/Kg | 7,800 | NE | 234,000 | 1,300 | 4,500 | 1,400 | 1,300 | 24,000 | 2,100 |
| Benzo(a)pyrene | 50-32-8 | ug/Kg | 1,000 | NE | 30,000 | 1,700 | 5,300 | 2,400 | 1,900 | 24,000 | 2,600 |
| Benzo(b)fluoranthene | 205-99-2 | ug/Kg | 7,800 | NE | 234,000 | 1,700 | 5,500 | 1,900 | 1,800 | 22,000 | 2,300 |
| Benzo(ghi)perylene | 191-24-2 | ug/Kg | NE | 78,000 | 2,340,000 | 1,300 | 3,300 | 2,500 | 1,900 | 14,000 | 1,700 |
| Benzo(k)fluoranthene | 207-08-9 | ug/Kg | 78,000 | NE | 2,340,000 | 1,500 | 4,100 | 1,900 | 1,300 | 18,000 | 2,300 |
| Chrysene | 218-01-9 | ug/Kg | NE | 780,000 | 23,400,000 | 1,700 | 4,900 | 1,900 | 1,400 | 25,000 | 2,600 |
| Dibenz(a,h)anthracene | 53-70-3 | ug/Kg | NE | 1,000 | 30,000 | 310 | 980 | 630 | < 1100 | 4,200 | 450 |
| Fluoranthene | 206-44-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 2,000 | 6,400 | 1,500 | < 2400 | 32,000 | 3,300 |
| Fluorene | 86-73-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | < 270 | 330 | 580 | < 2400 | 1,600 | 330 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/Kg | NE | 7,800 | 234,000 | 1,300 | 3,600 | 2,200 | 1,400 | 15,000 | 1,900 |
| Naphthalene | 91-20-3 | ug/Kg | 2,500,000 | NE | 75,000,000 | 280 | 280 | 460 | < 2400 | 1,200 | 310 |
| Phenanthrene | 85-01-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 670 | 1,300 | 770 | < 2400 | 7,300 | 870 |
| Pyrene | 129-00-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 2,700 | 6,400 | 2,600 | 2,600 | 49,000 | 4,000 |

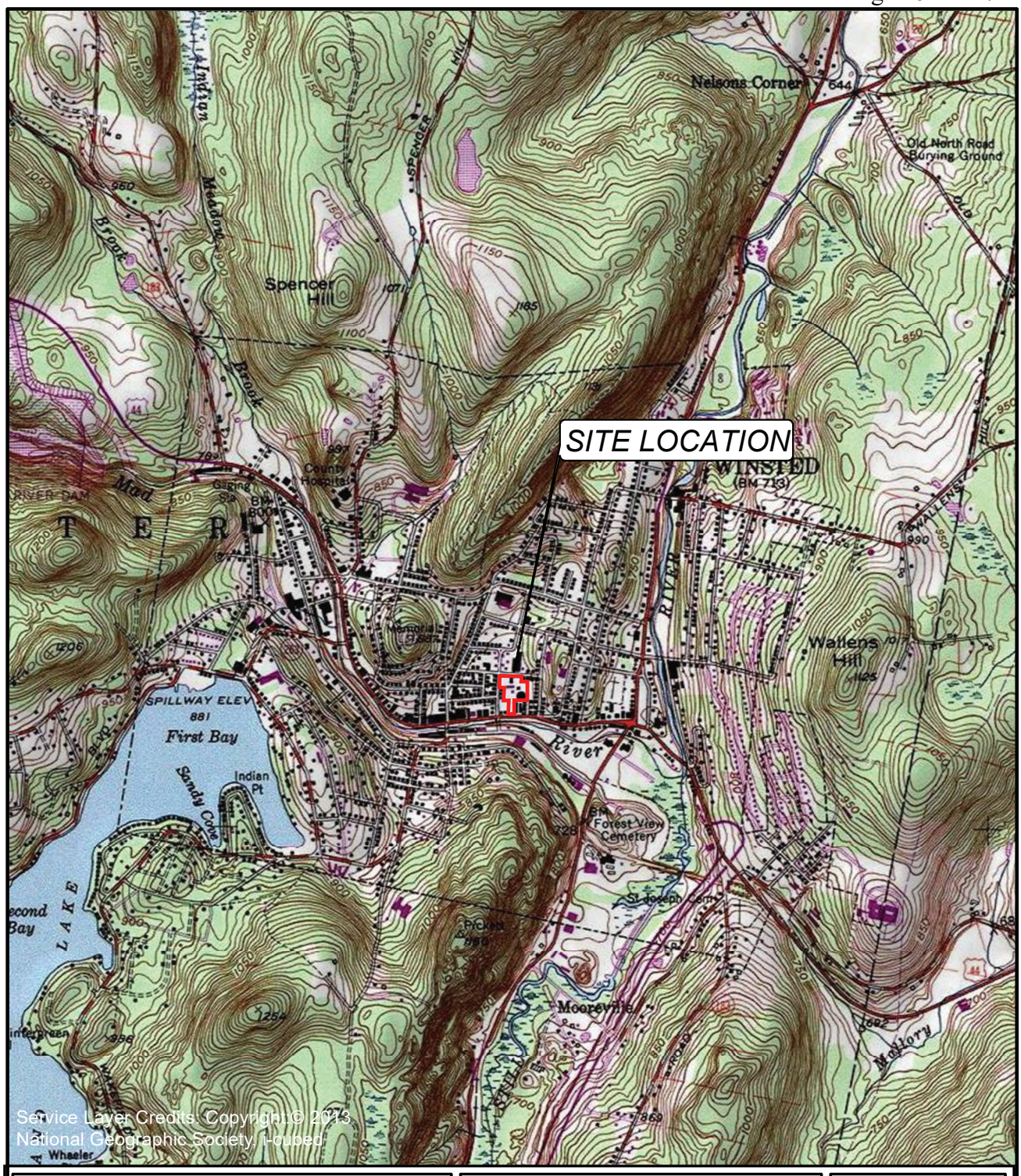
Notes:
Bold = Detected above laboratory reporting limit
< 2600 = Constituent not detected above laboratory reporting limits
S.E.H. CNTC = Signifcant Environmental Hazard Condition Notification Threshold Concentration
DEC I/C = Direct Exposure Criteria (Industrial/Commercial)
APS = Additional Polluting Substances
CAS = Chemical Abstract Service Registry Number
ug/kg = micrograms per kilogram
Result Exceeds I/C DEC
Result Exceeds S.E.H. (30x DEC)

**Table 1**
S.E.H. Soil Analytical Data
Winsted Former MGP Site
276 Main Street, Winsted, CT

| | | | | | Lab Sample ID | CG46358 | CG46351 | CG46357 |
|---|---|---|---|---|---|---|---|---|
| | | | | | Collection Date | 8/3/2020 | 8/3/2020 | 8/3/2020 |
| | | | | | Client ID | C1-S2 (0.5-2`) 1 | C1-W1 (0.5-2`) 1 | C1-W2 (0.5-2`) 1 |
| | | | | | Matrix | Soil | Soil | Soil |
| Polynuclear Aromatic HC By SW8270D | CAS | Units | DEC I/C | DEC I/C APS | S.E.H. CNTC | Result | Result | Result |
| 2-Methylnaphthalene | 91-57-6 | ug/Kg | NE | 1,000,000 | 30,000,000 | 850 | 320 | < 260 |
| Acenaphthene | 83-32-9 | ug/Kg | NE | 2,500,000 | 75,000,000 | < 280 | < 250 | < 260 |
| Acenaphthylene | 208-96-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 4,000 | 2,600 | 1,300 |
| Anthracene | 120-12-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | 2,200 | 1,200 | 590 |
| Benz(a)anthracene | 56-55-3 | ug/Kg | 7,800 | NE | 234,000 | 5,700 | 3,500 | 2,000 |
| Benzo(a)pyrene | 50-32-8 | ug/Kg | 1,000 | NE | 30,000 | 6,400 | 3,900 | 2,200 |
| Benzo(b)fluoranthene | 205-99-2 | ug/Kg | 7,800 | NE | 234,000 | 6,100 | 4,100 | 2,200 |
| Benzo(ghi)perylene | 191-24-2 | ug/Kg | NE | 78,000 | 2,340,000 | 3,700 | 2,700 | 1,400 |
| Benzo(k)fluoranthene | 207-08-9 | ug/Kg | 78,000 | NE | 2,340,000 | 5,600 | 2,900 | 1,700 |
| Chrysene | 218-01-9 | ug/Kg | NE | 780,000 | 23,400,000 | 6,700 | 4,300 | 2,300 |
| Dibenz(a,h)anthracene | 53-70-3 | ug/Kg | NE | 1,000 | 30,000 | 1,100 | 770 | 430 |
| Fluoranthene | 206-44-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 7,000 | 5,800 | 3,200 |
| Fluorene | 86-73-7 | ug/Kg | 2,500,000 | NE | 75,000,000 | 1,300 | 520 | 270 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/Kg | NE | 7,800 | 234,000 | 4,100 | 2,800 | 1,600 |
| Naphthalene | 91-20-3 | ug/Kg | 2,500,000 | NE | 75,000,000 | 660 | 290 | < 260 |
| Phenanthrene | 85-01-8 | ug/Kg | 2,500,000 | NE | 75,000,000 | 4,900 | 2,000 | 920 |
| Pyrene | 129-00-0 | ug/Kg | 2,500,000 | NE | 75,000,000 | 9,100 | 6,800 | 4,100 |

Notes:
Bold = Detected above laboratory reporting limit
< 2600 = Constituent not detected above laboratory reporting limits
S.E.H. CNTC = Signifcant Environmental Hazard Condition Notification Threshold Concentration
DEC I/C = Direct Exposure Criteria (Industrial/Commercial)
APS = Additional Polluting Substances
CAS = Chemical Abstract Service Registry Number
ug/kg = micrograms per kilogram
Result Exceeds I/C DEC
Result Exceeds S.E.H. (30x DEC)

# FIGURES




**Site Location**

Winsted Former MGP Site
276 Main Street
Winsted, Connecticut

| SCALE | DATE | PROJECT NO. |
|---|---|---|
| 1:2000 | 5/24/2021 | 60637859 |

AECOM

Figure Number

1




Notes:
1. Aerial imagery source:
Title: USGS Connecticut Orthoimagery; Orthophoto GeoTIFF tiles
Originators: Quantum Spatial, Inc.
Publication date: 2020-02-11

0 12.5 25 50 75 100 Feet

**Legend**

- Historical S.E.H. Exceedance
- Monitoring Well
- Subject Property

**Figure 2**

S.E.H. Original Sample Locations
Winsted Former MGP Site
276 Main Street
Winsted, Connecticut

| SCALE | DATE | PROJECT NO |
|---|---|---|
| 1 IN = 20 FT | 5/25/2021 | 60637859 |

AECOM

Figure Number

**2**




Notes:
1. Aerial imagery source:
Title: USGS Connecticut Orthoimagery; Orthophoto GeoTIFF tiles
Originators: Quantum Spatial, Inc.
Publication date: 2020-02-11

0 10 20 40 60 80 Feet

**Legend**

- Subject Property
- Historical S.E.H. Exceedance
- Delineation Sample Location
- Soil Boring - Samples Not Analyzed
- Boring with S.E.H Exceedance
- Monitoring Well

**Figure 3**

S.E.H. Delineation Sample Locations
Winsted Former MGP Site
276 Main Street
Winsted, Connecticut

| SCALE | DATE | PROJECT NO |
|---|---|---|
| 1 IN = 20 FT | 5/26/2021 | 60637859 |

AECOM

Figure Number

**3**




Notes:
1. Aerial imagery source:
Title: USGS Connecticut Orthoimagery; Orthophoto GeoTIFF tiles
Originators: Quantum Spatial, Inc.
Publication date: 2020-02-11

N

0 5 10 20 Feet

**Legend**

- Subject Property
- Monitoring Well
- Benzo(a)pyrene Exceeds S.E.H.- Historical
- Benzo(a)pyrene Exceeds S.E.H.
- Soil Boring - Samples Not Analyzed
- Delineation Sample Location
- Asphalt Cap - S.E.H.
- Asphalt Cover - Non-S.E.H.

## Figure 4

S.E.H. Areas and Asphalt Cap
Winsted Former MGP Site
276 Main Street
Winsted, Connecticut

| SCALE | DATE | PROJECT NO |
|---|---|---|
| 1 IN = 8 FT | 5/26/2021 | 60637859 |

AECOM

Figure Number

4

# ATTACHMENT A –
# Boring Logs

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# Boring Log

**Boring ID:** F1-RE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 5.4 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, few small rocks, slight tar odor |
| 2 | | F1-RE(0.5-2')-1 at 8:50 for PAHs. | NA | Damp | 289.0 | SM | 1-2': SAA<br>End of boring at 2 feet. |

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# Boring Log

**Boring ID:** F1-N1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 1.0 | MH | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Black, SILT, little Sand, tar odor |
| 2 | | F1-N1(0.5-2')-1 at 9:00 & F1-N1(0.5-2')-2 at 9:01 for PAHs. | NA | Damp | 1.1 | SM | 1-2': Damp, Dark Brown, SILTY SAND, few small rocks, no OST<br>End of boring at 2 feet. |
| | | | | | | | |
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# Boring Log

**Boring ID:** F1-E1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 1.5 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Black, SILTY SAND, few small rocks, no odor |
| 2 | | F1-E1(0.5-2')-1 at 9:10 for PAHs. | NA | Damp | 1.0 | SM | 1-2': Damp, Dark Brown, SILTY SAND, few small rocks, no odor<br>End of boring at 2 feet. |

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# Boring Log

**Boring ID:** F1-S2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 1.1 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, trace brick pieces, trace small rocks, tar odor |
| 2 | | F1-S2(0.5-2')-1 at 9:15 for PAHs. | NA | Damp | 2.9 | SM | 1-2': SAA<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** F1-W1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 1.3 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, little bedding sand (approx. 1 foot from subsurface feature mark out), no OST |
| 2 | | F1-W1(0.5-2')-1 at 9:30 for PAHs. | NA | Damp | 4.1 | MH | 1-2': Damp, Dark Brown, SILT, some Sand, few small rocks, no OST<br>End of boring at 2 feet. |
| | | | | | | | Note: W1 offset 2' north to avoid subsurface structure |
| | | | | | | | |
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# Boring Log

**Boring ID:** F1-S1

| | | | | | |
|---|---|---|---|---|---|
| Client | Eversource Energy | | | **Sheet:** | 1 **of** 1 |
| Project Number: | 60637859 | | | Drilling Method: | Hand Auger |
| Site: | Winsted Former MGP | | | Ground Elev.: | NA |
| Project Manager: | Dustin Bytautas | Logged By: | Liz Doerfler | Date Started: 8/3/2020 | Depth of Boring: 2 feet |
| Drilling Co.: | CISCO | Driller: | Avery/Ryan | Date Finished: 8/3/2020 | Water Level: NA |

| Depth (feet) | Elevation (feet) | Lab Sample ID | Recovery (inches) | Moisture | PID (ppm) | USCS | Classification of Material |
|---|---|---|---|---|---|---|---|
| 1 | | | NA | Damp<br>3.8 (offset location) | 7.6 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, slight tar odor. Refusal at 1 ft bgs. Did not attempt to drill deeper due to proximity to utility line mark outs. Location off set 1 feet.<br>Off set locaiton 0-1': SAA |
| 2 | | F1-S(0.5-2')-1 at 9:15 for PAHs. | NA | Damp | 4.3 | SM | 1-2': Damp, Dark Brown, SILTY SAND, tar odor.<br>End of boring at 2 feet. |

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# Boring Log

**Boring ID:** F1-W2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* (feet) | *Elevation* (feet) | *Lab Sample ID* | *Recovery* (inches) | *Moisture* | *PID* (ppm) | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| 1 | | | NA | Damp | 5.7 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, few small rocks, tar odor |
| 2 | | F1-W2(0.5-2')-1 at 9:40 for PAHs. | NA | Damp | 1.1 | SM | 1-2': Damp, Dark Brown, SILTY SAND, few small rocks, no OST<br>End of boring at 2 feet. |
| | | | | | | | Note: W2 offset 3' north to avoid subsurface structure |
| | | | | | | | |
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# Boring Log

**Boring ID:** F1-N2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | F1-N2(0.5-1')-1 at 9:55 for PAHs. | NA | Dry | 11.0 | | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Dry, Black, ASH, tar odor<br>Refusal at 1 ft bgs on concrete. 2 off set locations attempted. Refusal at 1 ft at all locations. |
| 2 | | | | | | | |
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# Boring Log

**Boring ID:** F1-N3

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Dry | 1.4 | | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Dry, Black, ASH, no odor<br>Refusal at 1 ft bgs on concrete. |
| 2 | | | | | | | Note: Location attempted 15 feet north of F1-RE per request by Larry Hogan b/c of refusal at N2. |
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# Boring Log

**Boring ID:** C1-RE

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|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 1.0 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Black, SILTY SAND, tar odor<br>Approx. 2" of Damp, Light Brown, GP, little small rocks |
| 2 | | C1-RE(0.5-2')-1 at 10:51 for PAHs. | NA | Damp | 0.6 | SM | 1-2': Damp, Black, SILTY SAND, no OST<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** C1-W1

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|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 1.0 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, some ash, no OST<br>Approx. 2" of Damp, Light Brown, GP, little small rocks |
| 2 | | C1-W1(0.5-2')-1 at 10:55 for PAHs (MSMSD). | NA | Damp | 0.5 | SM | 1-2': SAA<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** C1-E1

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|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* (feet) | *Elevation* (feet) | *Lab Sample ID* | *Recovery* (inches) | *Moisture* | *PID* (ppm) | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| 1 | | | NA | Damp | 2.1 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, no OST |
| 2 | | C1-E1(0.5-2')-1 at 11:08 for PAHs. | NA | Damp | 41.0 | SM | 1-2': Damp, Dark Brown, SILTY SAND, some tar material, few yellow paint chips, tar odor<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** C1-N1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Dry | 0.6 | | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Dry, Black, ASH, few small rocks, no OST |
| 2 | | C1-N1(0.5-2')-1 at 11:10 for PAHs. | NA | Dry | 0.7 | | 1-2': SAA<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** C1-S1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 2.9 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Dark Brown, SILTY SAND, some small rocks, no OST |
| 2 | | C1-S1(0.5-2')-1 at 11:20 for PAHs. | NA | Damp | 0.4 | SM | 1-2': SAA<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** C1-E2

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|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 0.4 | SM | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Brown, SILTY SAND, little ash rocks, trace brick, no OST |
| 2 | | C1-S1(0.5-2')-1 at 11:30 for PAHs. | NA | Damp | 0.0 | SM | 1-2': Top ~ 6" - Damp, Light Brown, SILTY SAND, few small rocks, no OST<br>Bottom ~ 6" - Black, ASH, no OST<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** C1-N2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Dry | 0.0 | | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Dry, Black, ASH |
| 2 | | C1-N2(0.5-2')-1 at 11:40 for PAHs. | NA | Damp | 0.0 | MH | 1-2': Damp, Dark Brown, SILT, some ash rocks, little brick, no OST<br>End of boring at 2 feet. |

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# Boring Log

**Boring ID:** C1-W2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Eversource Energy | | | | | **Sheet:** | 1 **of** 1 |
| Project Number: | 60637859 | | | | | Drilling Method: | Hand Auger |
| Site: | Winsted Former MGP | | | | | Ground Elev.: | NA |
| Project Manager: | Dustin Bytautas | Logged By: | Liz Doerfler | Date Started: | 8/3/2020 | Depth of Boring: | 2 feet |
| Drilling Co.: | CISCO | Driller: | Avery/Ryan | Date Finished: | 8/3/2020 | Water Level: | NA |

| Depth (feet) | Elevation (feet) | Lab Sample ID | Recovery (inches) | Moisture | PID (ppm) | USCS | Classification of Material |
|---|---|---|---|---|---|---|---|
| 1 | | | NA | Damp | 0.5 | SP | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Brown, SAND, some small rocks, no OST |
| 2 | | C1-W2(0.5-2')-1 at 11:45 for PAHs. | NA | Damp | 0.3 | SP<br>SM | 1-2':<br>Top ~ 6" - SAA<br>Bottom ~ 6" - Damp, Dark Brown, SILTY SAND, some small rocks, some ash rocks, no OST<br>End of boring at 2 feet. |
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# Boring Log

**Boring ID:** C1-S2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Client* | Eversource Energy | | | | | ***Sheet:*** | 1 ***of*** 1 |
| *Project Number:* | 60637859 | | | | | *Drilling Method:* | Hand Auger |
| *Site:* | Winsted Former MGP | | | | | *Ground Elev.:* | NA |
| *Project Manager:* | Dustin Bytautas | *Logged By:* | Liz Doerfler | *Date Started:* | 8/3/2020 | *Depth of Boring:* | 2 feet |
| *Drilling Co.:* | CISCO | *Driller:* | Avery/Ryan | *Date Finished:* | 8/3/2020 | *Water Level:* | NA |

| *Depth* | *Elevation* | *Lab Sample ID* | *Recovery* | *Moisture* | *PID* | *USCS* | *Classification of Material* |
|---|---|---|---|---|---|---|---|
| *feet* | *feet* | | *inches* | | *ppm* | | |
| 1 | | | NA | Damp | 0.2 | | 0-0.5': ASPHALT (hammer drilled)<br>0.5-1': Damp, Black, ASH, some small rocks |
| 2 | | C1-S2(0.5-2')-1 at 11:51 for PAHs. | NA | Damp | 0.0 | | 1-2': SAA<br>End of boring at 2 feet. |
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# ATTACHMENT B –
# Analytical Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

**Thursday, August 06, 2020**

**Attn: Mr. Dustin Bytautas**
**AECOM**
**500 Enterprise Dr Suite 1A**
**Rocky Hill CT 06067**

**Project ID:** **WINSTED MGP 60637859**
**SDG ID:** **GCG46340**
**Sample ID#s: CG46340 - CG46349**

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

**This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.**

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

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

**If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.**

**Sincerely yours,**

**Phyllis Shiller**
**Laboratory Director**

**NELAC - #NY11301**
**CT Lab Registration #PH-0618**
**MA Lab Registration #M-CT007**
**ME Lab Registration #CT-007**
**NH Lab Registration #213693-A,B**
**NJ Lab Registration #CT-003**
**NY Lab Registration #11301**
**PA Lab Registration #68-03530**
**RI Lab Registration #63**
**UT Lab Registration #CT00007**
**VT Lab Registration #VT11301**

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

# Sample Id Cross Reference

August 06, 2020

SDG I.D.: GCG46340

Project ID: WINSTED MGP 60637859

| Client Id | Lab Id | Matrix |
|---|---|---|
| F1-N2 (0.5-1`) 1 | CG46340 | SOIL |
| F1-RE (0.5-2`) 1 | CG46341 | SOIL |
| F1-N1 (0.5-2`) 1 | CG46342 | SOIL |
| F1-N1 (0.5-2`) 2 | CG46343 | SOIL |
| F1-E1 (0.5-2`) 1 | CG46344 | SOIL |
| F1-S2 (0.5-2`) 1 | CG46345 | SOIL |
| F1-S1 (0.5-2`) 1 | CG46346 | SOIL |
| F1-W2 (0.5-2`) 1 | CG46347 | SOIL |
| F1-E2 (0.5-2`) 1 | CG46348 | SOIL |
| F1-W1 (0.5-2`) 1 | CG46349 | SOIL |

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:55 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46340

Project ID: WINSTED MGP 60637859
Client ID: F1-N2 (0.5-1`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 89 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | R/ML | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 770 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthene | 280 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | 2000 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Anthracene | 1300 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 2400 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 2000 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 1900 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 1100 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 1700 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Chrysene | 2800 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | 320 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluoranthene | 3800 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluorene | 1300 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 1100 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Naphthalene | 790 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Phenanthrene | 4600 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Pyrene | 5200 | 250 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 68 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 57 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 | 73 | | % | 1 | 08/04/20 | WB | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46340
Client ID: F1-N2 (0.5-1`) 1

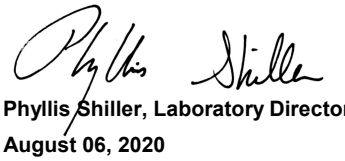
| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 8:50 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46341

Project ID: WINSTED MGP 60637859
Client ID: F1-RE (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 91 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | R/ML | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 42000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Acenaphthene | 42000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | 19000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Anthracene | 30000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 24000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 19000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 12000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 8400 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 13000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Chrysene | 27000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | 2800 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Fluoranthene | 36000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Fluorene | 48000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 8800 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Naphthalene | 59000 | 2500 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Phenanthrene | 120000 | 25000 | ug/Kg | 100 | 08/04/20 | WB | SW8270D |
| Pyrene | 85000 | 25000 | ug/Kg | 100 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl (100x) | Diluted Out | | % | 100 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (100x) | Diluted Out | | % | 100 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (100x) | Diluted Out | | % | 100 | 08/04/20 | WB | 30 - 130 % |

**Ver 1**

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46341
Client ID: F1-RE (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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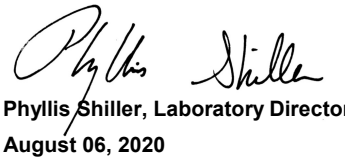


**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:00 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46342

Project ID: WINSTED MGP 60637859
Client ID: F1-N1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 80 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 5000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 43000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Anthracene | 15000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 6900 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 39000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 25000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 25000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 14000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Chrysene | 9500 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 7300 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 4400 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluorene | 11000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 24000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Naphthalene | 4700 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 4100 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Pyrene | 9200 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46342
Client ID: F1-N1 (0.5-2`) 1

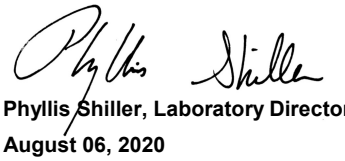
| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:01 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46343

Project ID: WINSTED MGP 60637859
Client ID: F1-N1 (0.5-2`) 2

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 80 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 5700 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 40000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Anthracene | 15000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 6200 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 38000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 24000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 24000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 13000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Chrysene | 8700 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 7600 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 4700 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluorene | 11000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 23000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Naphthalene | 4800 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 5500 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Pyrene | 10000 | 2900 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46343
Client ID: F1-N1 (0.5-2`) 2

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:10 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46344

Project ID: WINSTED MGP 60637859
Client ID: F1-E1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 84 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 2500 | 1200 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 26000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Anthracene | 14000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 22000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 27000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 21000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 22000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 16000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Chrysene | 19000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 6700 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 32000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluorene | 8700 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 23000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Naphthalene | 6000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 17000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Pyrene | 31000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46344
Client ID: F1-E1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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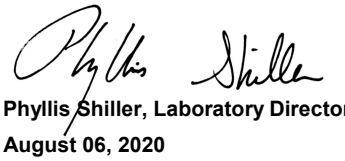

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:15 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46345

Project ID: WINSTED MGP 60637859
Client ID: F1-S2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 86 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 4900 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Acenaphthene | ND | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | 29000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Anthracene | 16000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 67000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 72000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 68000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 33000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 51000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Chrysene | 59000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | 12000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Fluoranthene | 87000 | 27000 | ug/Kg | 100 | 08/04/20 | WB | SW8270D |
| Fluorene | 8700 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 41000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Naphthalene | 4500 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Phenanthrene | 18000 | 2700 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Pyrene | 93000 | 27000 | ug/Kg | 100 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl (100x) | Diluted Out | | % | 100 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (100x) | Diluted Out | | % | 100 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (100x) | Diluted Out | | % | 100 | 08/04/20 | WB | 30 - 130 % |

**Ver 1**

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46345
Client ID: F1-S2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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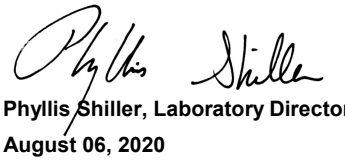

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:35 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46346

Project ID: WINSTED MGP 60637859
Client ID: F1-S1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 86 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 5400 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 29000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Anthracene | 11000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 12000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 24000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 18000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 18000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 12000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Chrysene | 12000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 5700 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 13000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluorene | 8400 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 18000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Naphthalene | 3700 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 10000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Pyrene | 20000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46346
Client ID: F1-S1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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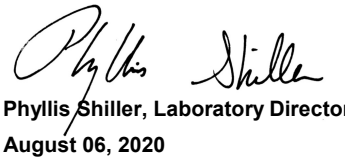

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:40 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46347

Project ID: WINSTED MGP 60637859
Client ID: F1-W2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 84 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 1400 | 1200 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 17000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Anthracene | 5900 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 8100 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 13000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 10000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 14000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 8000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Chrysene | 9600 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 3400 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 11000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluorene | 4000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 12000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Naphthalene | ND | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 5500 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Pyrene | 16000 | 2700 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46347
Client ID: F1-W2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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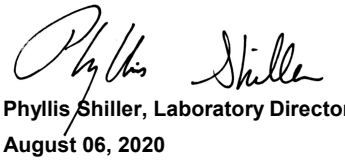

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:50 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46348

Project ID: WINSTED MGP 60637859
Client ID: F1-E2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 89 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 16000 | 2600 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Acenaphthene | 510 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | 6100 | 2600 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Anthracene | 3100 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 3000 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 6300 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 6700 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 6600 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 3200 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Chrysene | 3500 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | 1800 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluoranthene | 4300 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluorene | 870 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 6500 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Naphthalene | 29000 | 2600 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Phenanthrene | 6700 | 2600 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Pyrene | 6700 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 66 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 70 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 | 91 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |

**Ver 1**

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46348
Client ID: F1-E2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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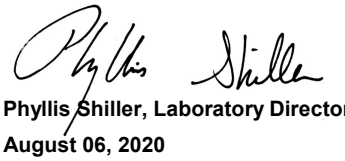

**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 06, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 9:30 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46340
Phoenix ID: CG46349

Project ID: WINSTED MGP 60637859
Client ID: F1-W1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 87 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 2900 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 37000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Anthracene | 15000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 5600 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 22000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 16000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 22000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 11000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Chrysene | 7000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 6300 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 2800 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Fluorene | 8100 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 20000 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Naphthalene | ND | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Phenanthrene | ND | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| Pyrene | 6300 | 2600 | ug/Kg | 10 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46349
Client ID: F1-W1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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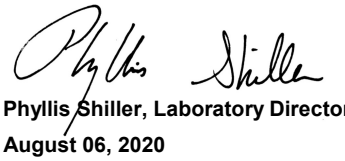


**Phyllis Shiller, Laboratory Director**
**August 06, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# QA/QC Report

August 06, 2020

## QA/QC Data

SDG I.D.: GCG46340

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 539898 (ug/kg), QC Sample No: CG46351 (CG46342, CG46343, CG46344, CG46345, CG46346, CG46347, CG46348, CG46349) | | | | | | | | | | | |
| **Polynuclear Aromatic HC - Soil** | | | | | | | | | | | |
| 2-Methylnaphthalene | ND | 230 | 76 | 74 | 2.7 | 65 | 95 | 37.5 | 40 - 140 | 30 | r |
| Acenaphthene | ND | 230 | 80 | 78 | 2.5 | 69 | 91 | 27.5 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 230 | 76 | 73 | 4.0 | NC | NC | NC | 40 - 140 | 30 | |
| Anthracene | ND | 230 | 80 | 76 | 5.1 | 53 | 129 | 83.5 | 40 - 140 | 30 | r |
| Benz(a)anthracene | ND | 230 | 81 | 78 | 3.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(a)pyrene | ND | 230 | 89 | 84 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(b)fluoranthene | ND | 230 | 106 | 100 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(ghi)perylene | ND | 230 | 89 | 84 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(k)fluoranthene | ND | 230 | 66 | 62 | 6.3 | NC | NC | NC | 40 - 140 | 30 | |
| Chrysene | ND | 230 | 79 | 77 | 2.6 | NC | NC | NC | 40 - 140 | 30 | |
| Dibenz(a,h)anthracene | ND | 230 | 93 | 83 | 11.4 | 64 | 109 | 52.0 | 40 - 140 | 30 | r |
| Fluoranthene | ND | 230 | 79 | 76 | 3.9 | NC | NC | NC | 40 - 140 | 30 | |
| Fluorene | ND | 230 | 78 | 75 | 3.9 | 59 | 95 | 46.8 | 40 - 140 | 30 | r |
| Indeno(1,2,3-cd)pyrene | ND | 230 | 88 | 83 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Naphthalene | ND | 230 | 67 | 67 | 0.0 | 56 | 85 | 41.1 | 40 - 140 | 30 | r |
| Phenanthrene | ND | 230 | 78 | 75 | 3.9 | NC | NC | NC | 40 - 140 | 30 | |
| Pyrene | ND | 230 | 84 | 78 | 7.4 | NC | NC | NC | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 67 | % | 68 | 67 | 1.5 | 57 | 73 | 24.6 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 63 | % | 62 | 62 | 0.0 | 52 | 74 | 34.9 | 30 - 130 | 30 | r |
| % Terphenyl-d14 | 80 | % | 82 | 80 | 2.5 | 62 | 90 | 36.8 | 30 - 130 | 30 | r |
| Comment: | | | | | | | | | | | |
| Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%) | | | | | | | | | | | |
| QA/QC Batch 539875 (ug/kg), QC Sample No: CG46456 (CG46340, CG46341) | | | | | | | | | | | |
| **Semivolatiles - Soil** | | | | | | | | | | | |
| 2-Methylnaphthalene | ND | 230 | 69 | 71 | 2.9 | 70 | 69 | 1.4 | 40 - 140 | 30 | |
| Acenaphthene | ND | 230 | 77 | 79 | 2.6 | 78 | 75 | 3.9 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 130 | 71 | 73 | 2.8 | 71 | 80 | 11.9 | 40 - 140 | 30 | |
| Anthracene | ND | 230 | 74 | 74 | 0.0 | 73 | 70 | 4.2 | 40 - 140 | 30 | |
| Benz(a)anthracene | ND | 230 | 81 | 82 | 1.2 | 82 | 87 | 5.9 | 40 - 140 | 30 | |
| Benzo(a)pyrene | ND | 130 | 86 | 85 | 1.2 | 80 | 91 | 12.9 | 40 - 140 | 30 | |
| Benzo(b)fluoranthene | ND | 160 | 98 | 97 | 1.0 | 97 | 114 | 16.1 | 40 - 140 | 30 | |
| Benzo(ghi)perylene | ND | 230 | 83 | 84 | 1.2 | 57 | 65 | 13.1 | 40 - 140 | 30 | |
| Benzo(k)fluoranthene | ND | 230 | 63 | 64 | 1.6 | 55 | 63 | 13.6 | 40 - 140 | 30 | |
| Chrysene | ND | 230 | 81 | 80 | 1.2 | 84 | 89 | 5.8 | 40 - 140 | 30 | |
| Dibenz(a,h)anthracene | ND | 130 | 83 | 84 | 1.2 | 68 | 73 | 7.1 | 40 - 140 | 30 | |
| Fluoranthene | ND | 230 | 76 | 76 | 0.0 | 80 | 55 | 37.0 | 40 - 140 | 30 | r |
| Fluorene | ND | 230 | 77 | 76 | 1.3 | 75 | 74 | 1.3 | 40 - 140 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 230 | 87 | 85 | 2.3 | 60 | 69 | 14.0 | 40 - 140 | 30 | |
| Naphthalene | ND | 230 | 66 | 70 | 5.9 | 71 | 68 | 4.3 | 40 - 140 | 30 | |

## QA/QC Data

SDG I.D.: GCG46340

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | 130 | 75 | 75 | 0.0 | 85 | 46 | 59.5 | 40 - 140 | 30 | r |
| Pyrene | ND | 230 | 74 | 76 | 2.7 | 79 | 65 | 19.4 | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 74 | % | 69 | 71 | 2.9 | 71 | 71 | 0.0 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 71 | % | 67 | 72 | 7.2 | 71 | 68 | 4.3 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 78 | % | 78 | 79 | 1.3 | 78 | 79 | 1.3 | 30 - 130 | 30 | |

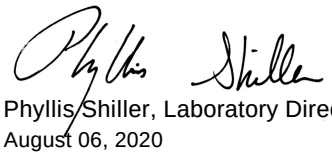
Comment:

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

r = This parameter is outside laboratory RPD specified recovery limits.

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

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



Phyllis Shiller, Laboratory Director
August 06, 2020

Thursday, August 06, 2020
Criteria: CT: GAM, I/C
State: CT

# Sample Criteria Exceedances Report

## GCG46340 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46340 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 2000 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1100 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 770 | 250 | 560 | 560 | ug/Kg |
| CG46340 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2800 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1100 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 4600 | 250 | 4000 | 4000 | ug/Kg |
| CG46340 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1700 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1900 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2000 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2400 | 250 | 1000 | 1000 | ug/Kg |
| CG46340 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5200 | 250 | 4000 | 4000 | ug/Kg |
| CG46341 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 8800 | 2500 | 7800 | 7800 | ug/Kg |
| CG46341 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 2800 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 12000 | 2500 | 7800 | 7800 | ug/Kg |
| CG46341 | $8100SMR | Benz(a)anthracene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 24000 | 2500 | 7800 | 7800 | ug/Kg |
| CG46341 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 19000 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 27000 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 8800 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2800 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Acenaphthene | CT / RSR GA,GAA (mg/kg) / APS Organics | 42000 | 2500 | 8400 | 8400 | ug/Kg |
| CG46341 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 42000 | 2500 | 560 | 560 | ug/Kg |
| CG46341 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 8400 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 85000 | 25000 | 4000 | 4000 | ug/Kg |
| CG46341 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 12000 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Naphthalene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 59000 | 2500 | 5600 | 5600 | ug/Kg |
| CG46341 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 19000 | 2500 | 8400 | 8400 | ug/Kg |
| CG46341 | $8100SMR | Fluorene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 48000 | 2500 | 5600 | 5600 | ug/Kg |
| CG46341 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 36000 | 2500 | 5600 | 5600 | ug/Kg |
| CG46341 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 24000 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 19000 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 13000 | 2500 | 1000 | 1000 | ug/Kg |
| CG46341 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 120000 | 25000 | 4000 | 4000 | ug/Kg |
| CG46342 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 7300 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 24000 | 2900 | 7800 | 7800 | ug/Kg |
| CG46342 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 39000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 25000 | 2900 | 7800 | 7800 | ug/Kg |
| CG46342 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 9500 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 24000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 7300 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 25000 | 2900 | 1000 | 1000 | ug/Kg |

Thursday, August 06, 2020
Criteria: CT: GAM, I/C
State: CT

# Sample Criteria Exceedances Report

## GCG46340 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46342 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 5000 | 2900 | 560 | 560 | ug/Kg |
| CG46342 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 43000 | 2900 | 8400 | 8400 | ug/Kg |
| CG46342 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 4100 | 2900 | 4000 | 4000 | ug/Kg |
| CG46342 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6900 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Fluorene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 11000 | 2900 | 5600 | 5600 | ug/Kg |
| CG46342 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 39000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 25000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 14000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46342 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 9200 | 2900 | 4000 | 4000 | ug/Kg |
| CG46343 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 23000 | 2900 | 7800 | 7800 | ug/Kg |
| CG46343 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 7600 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 38000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 24000 | 2900 | 7800 | 7800 | ug/Kg |
| CG46343 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 8700 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 23000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 7600 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 5700 | 2900 | 560 | 560 | ug/Kg |
| CG46343 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 24000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 13000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 24000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 38000 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6200 | 2900 | 1000 | 1000 | ug/Kg |
| CG46343 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 40000 | 2900 | 8400 | 8400 | ug/Kg |
| CG46343 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5500 | 2900 | 4000 | 4000 | ug/Kg |
| CG46343 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 10000 | 2900 | 4000 | 4000 | ug/Kg |
| CG46343 | $8100SMR | Fluorene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 11000 | 2900 | 5600 | 5600 | ug/Kg |
| CG46344 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 23000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46344 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 6700 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 27000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 21000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46344 | $8100SMR | Benz(a)anthracene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 22000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46344 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2500 | 1200 | 560 | 560 | ug/Kg |
| CG46344 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 23000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 6700 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 19000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 22000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 16000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 22000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 21000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46344 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 27000 | 2700 | 1000 | 1000 | ug/Kg |

Thursday, August 06, 2020
Criteria: CT: GAM, I/C
State: CT

# Sample Criteria Exceedances Report

## GCG46340 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46344 | $8100SMR | Fluorene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 8700 | 2700 | 5600 | 5600 | ug/Kg |
| CG46344 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 17000 | 2700 | 4000 | 4000 | ug/Kg |
| CG46344 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 26000 | 2700 | 8400 | 8400 | ug/Kg |
| CG46344 | $8100SMR | Naphthalene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6000 | 2700 | 5600 | 5600 | ug/Kg |
| CG46344 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 31000 | 2700 | 4000 | 4000 | ug/Kg |
| CG46344 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 32000 | 2700 | 5600 | 5600 | ug/Kg |
| CG46345 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 41000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46345 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 12000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Benz(a)anthracene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 67000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46345 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 72000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 68000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46345 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 4900 | 2700 | 560 | 560 | ug/Kg |
| CG46345 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 41000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 12000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 59000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 33000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 67000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 18000 | 2700 | 4000 | 4000 | ug/Kg |
| CG46345 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 51000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 93000 | 27000 | 4000 | 4000 | ug/Kg |
| CG46345 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 29000 | 2700 | 8400 | 8400 | ug/Kg |
| CG46345 | $8100SMR | Fluorene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 8700 | 2700 | 5600 | 5600 | ug/Kg |
| CG46345 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 87000 | 27000 | 5600 | 5600 | ug/Kg |
| CG46345 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 72000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46345 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 68000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 18000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46346 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 5700 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Benz(a)anthracene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 12000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46346 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 18000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46346 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 24000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 12000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 18000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 18000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 5400 | 2700 | 560 | 560 | ug/Kg |
| CG46346 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 5700 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 10000 | 2700 | 4000 | 4000 | ug/Kg |
| CG46346 | $8100SMR | Fluorene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 8400 | 2700 | 5600 | 5600 | ug/Kg |
| CG46346 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 20000 | 2700 | 4000 | 4000 | ug/Kg |
| CG46346 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 13000 | 2700 | 5600 | 5600 | ug/Kg |
| CG46346 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 12000 | 2700 | 1000 | 1000 | ug/Kg |

Thursday, August 06, 2020
Criteria: CT: GAM, I/C
State: CT

# Sample Criteria Exceedances Report

## GCG46340 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46346 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 18000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 24000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46346 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 29000 | 2700 | 8400 | 8400 | ug/Kg |
| CG46346 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 12000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 12000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46347 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 3400 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 10000 | 2700 | 7800 | 7800 | ug/Kg |
| CG46347 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 13000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Benz(a)anthracene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 8100 | 2700 | 7800 | 7800 | ug/Kg |
| CG46347 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 3400 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 12000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1400 | 1200 | 560 | 560 | ug/Kg |
| CG46347 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 9600 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 14000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 8000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 17000 | 2700 | 8400 | 8400 | ug/Kg |
| CG46347 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 10000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 8100 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5500 | 2700 | 4000 | 4000 | ug/Kg |
| CG46347 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 16000 | 2700 | 4000 | 4000 | ug/Kg |
| CG46347 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 13000 | 2700 | 1000 | 1000 | ug/Kg |
| CG46347 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 11000 | 2700 | 5600 | 5600 | ug/Kg |
| CG46348 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 1800 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 6300 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 6600 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 6500 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 3500 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 16000 | 2600 | 560 | 560 | ug/Kg |
| CG46348 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1800 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6700 | 260 | 4000 | 4000 | ug/Kg |
| CG46348 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 3200 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6300 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 3000 | 260 | 1000 | 1000 | ug/Kg |
| CG46348 | $8100SMR | Naphthalene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 29000 | 2600 | 5600 | 5600 | ug/Kg |
| CG46348 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6700 | 2600 | 4000 | 4000 | ug/Kg |
| CG46348 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6700 | 260 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 6300 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 20000 | 2600 | 7800 | 7800 | ug/Kg |
| CG46349 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 22000 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 16000 | 2600 | 7800 | 7800 | ug/Kg |

Thursday, August 06, 2020
Criteria: CT: GAM, I/C
State: CT

# Sample Criteria Exceedances Report

## GCG46340 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46349 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 7000 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 6300 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 22000 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 20000 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2900 | 2600 | 560 | 560 | ug/Kg |
| CG46349 | $8100SMR | Fluorene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 8100 | 2600 | 5600 | 5600 | ug/Kg |
| CG46349 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 11000 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 16000 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5600 | 2600 | 1000 | 1000 | ug/Kg |
| CG46349 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 37000 | 2600 | 8400 | 8400 | ug/Kg |
| CG46349 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6300 | 2600 | 4000 | 4000 | ug/Kg |
| CG46349 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 22000 | 2600 | 1000 | 1000 | ug/Kg |

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

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

***Laboratory Name:*** Phoenix Environmental Labs, Inc. ***Client:*** AECOM

***Project Location:*** WINSTED MGP 60637859 ***Project Number:***

***Laboratory Sample ID(s):*** CG46340-CG46349 ***Sampling Date(s):*** 8/3/2020

***List RCP Methods Used (e.g., 8260, 8270, et cetera)*** 8270

| | | |
|---|---|---|
| **1** | **For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?** | ☑ Yes ☐ No |
| **1A** | **Were the method specified preservation and holding time requirements met?** | ☑ Yes ☐ No |
| **1B** | ***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)** | ☐ Yes ☐ No ☑ NA |
| **2** | **Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?** | ☑ Yes ☐ No |
| **3** | **Were samples received at an appropriate temperature (< 6 Degrees C)?** | ☑ Yes ☐ No ☐ NA |
| **4** | **Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?** | ☐ Yes ☑ No |
| **5** | **a) Were reporting limits specified or referenced on the chain-of-custody?**<br>**b) Were these reporting limits met?** | ☑ Yes ☐ No<br>☑ 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 the data set?** | ☐ Yes ☑ No |

**Notes: 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". This form may not be altered and all questions must be answered.**

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

**Authorized Signature:** Rashmi Makol **Position:** Project Manager

**Printed Name:** Rashmi Makol **Date:** Thursday, August 06, 2020

**Name of Laboratory** Phoenix Environmental Labs, Inc.

**This certification form is to be used for RCP methods only.**

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

August 06, 2020

SDG I.D.: GCG46340

## *SDG Comments*

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

## *SVOA Narration*

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

**Instrument:**

**CHEM06 08/03/20-2** Matt Richard, Chemist 08/03/20

CG46340 (1X), CG46341 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0722):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0803_22-6_SPLIT_0722):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
96% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

**CHEM07 08/03/20-1** Matt Richard, Chemist 08/03/20

CG46342 (10X), CG46343 (10X), CG46344 (10X), CG46345 (10X), CG46346 (10X), CG46347 (10X), CG46348 (1X), CG46349 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BN_0716):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0803_10-7_BN_0716):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

**CHEM07 08/04/20-1** Wes Bryon, Chemist 08/04/20

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

August 06, 2020

SDG I.D.: GCG46340

## *SVOA Narration*

CG46341 (100X), CG46345 (100X), CG46348 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_SPLIT_0716):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0804_05-7_SPLIT_0716):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

### QC (Batch Specific):

**Batch 539875 (CG46456)**

CG46340, CG46341

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

**Batch 539898 (CG46351)**

CG46342, CG46343, CG46344, CG46345, CG46346, CG46347, CG46348, CG46349

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

## *Temperature Narration*

The samples were received at 5.8C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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

# PHOENIX
*Environmental Laboratories, Inc.*

## CHAIN OF CUSTODY RECORD

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

Temp 5.8 °C Pg 1 of 1

**Data Delivery/Contact Options:**
[ ] Fax:
[ ] Phone:
[x] Email: Justin.Bytautas@aecom.com

Customer: AECom
Address: 500 Enterprise Dr. 1A
Rocky Hill, CT 06067

Project: Winsted MGP
Report to: Justin Bytautas
Invoice to: "
QUOTE #

Project P.O:

***This section MUST be completed with Bottle Quantities.***

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 8/3/20

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

Analysis Request

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | PAHs 8270 | MS/MSD * | GL Amber 8 oz. w/H3PO4 | Soil VOA Vials [ ] methanol [ ] H2O | GL Soil container ( 4 ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [ ] HCL | GL Amber 1000ml [ ] As is [ ] H2SO4 | PL As is [ ] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle w/thio | Bacteria Bottle as is |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46340 | F1-N2(0.5-1')-1 | SO | 8/3 | 0955 | X | | | | 1 | | | | | | | | | |
| 46341 | F1-RE(0.5-2')-1 | SO | 8/3 | 0850 | X | | | | 1 | | | | | | | | | |
| 46342 | F1-N1(0.5-2')-1 | SO | 8/3 | 0900 | X | | | | 1 | | | | | | | | | |
| 46343 | F1-N1(0.5-2')-2 | SO | 8/3 | 0901 | X | | | | 1 | | | | | | | | | |
| 46344 | F1-E1(0.5-2')-1 | SO | 8/3 | 0910 | X | | | | 1 | | | | | | | | | |
| 46345 | F1-S2(0.5-2')-1 | SO | 8/3 | 0915 | X | | | | 1 | | | | | | | | | |
| 46346 | F1-S1(0.5-2')-1 | SO | 8/3 | 0935 | X | | | | 1 | | | | | | | | | |
| 46347 | F1-W2(0.5-2')-1 | SO | 8/3 | 0940 | X | | | | 1 | | | | | | | | | |
| 46348 | F1-E2(0.5-2')-1 | SO | 8/3 | 0950 | X | | | | 1 | | | | | | | | | |
| 46349 | F1-W1(0.5-2')-1 | SO | 8/3 | 0930 | X | | | | 1 | | | | | | | | | |
| | | SO | | | | | | | | | | | | | | | | |
| | | SO | | | | | | | | | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 8/3/20 | 1741 |
| | | | |

**Comments, Special Requirements or Regulations:**

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

**MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.*

**RI**
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

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

**MA**
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2 [ ] S-1 10% CALC
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

**State where samples were collected:** CT

**Data Format**
[x] Excel
[x] PDF
[ ] GIS/Key
[x] EQuIS
[ ] Other

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

PEL-126 REV. 06/20



The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 28
Page 72 of 127

PHOENIX
Environmental Laboratories, Inc.

**Friday, August 07, 2020**

**Attn: Mr. Dustin Bytautas**
**AECOM**
**500 Enterprise Dr Suite 1A**
**Rocky Hill CT 06067**

**Project ID:** **WINSTED MGP 60637859**
**SDG ID:** **GCG46350**
**Sample ID#s: CG46350 - CG46358**

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

**This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.**

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

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

**If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.**

**Sincerely yours,**

**Phyllis Shiller**
**Laboratory Director**

**NELAC - #NY11301**
**CT Lab Registration #PH-0618**
**MA Lab Registration #M-CT007**
**ME Lab Registration #CT-007**
**NH Lab Registration #213693-A,B**
**NJ Lab Registration #CT-003**
**NY Lab Registration #11301**
**PA Lab Registration #68-03530**
**RI Lab Registration #63**
**UT Lab Registration #CT00007**
**VT Lab Registration #VT11301**

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

# Sample Id Cross Reference

August 07, 2020

SDG I.D.: GCG46350

Project ID: WINSTED MGP 60637859

| Client Id | Lab Id | Matrix |
|---|---|---|
| C1-RE (0.5-2`) 1 | CG46350 | SOIL |
| C1-W1 (0.5-2`) 1 | CG46351 | SOIL |
| C1-E1 (0.5-2`) 1 | CG46352 | SOIL |
| C1-N1 (0.5-2`) 1 | CG46353 | SOIL |
| C1-S1 (0.5-2`) 1 | CG46354 | SOIL |
| C1-E2 (0.5-2`) 1 | CG46355 | SOIL |
| C1-N2 (0.5-2`) 1 | CG46356 | SOIL |
| C1-W2 (0.5-2`) 1 | CG46357 | SOIL |
| C1-S2 (0.5-2`) 1 | CG46358 | SOIL |

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 10:51 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46350

Project ID: WINSTED MGP 60637859
Client ID: C1-RE (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 87 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 320 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 1300 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Anthracene | 530 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 1300 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 1700 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 1700 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 1300 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 1500 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Chrysene | 1700 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 310 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 2000 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluorene | ND | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 1300 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Naphthalene | 280 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 670 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Pyrene | 2700 | 270 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 67 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 | 69 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 | 81 | | % | 1 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46350
Client ID: C1-RE (0.5-2`) 1

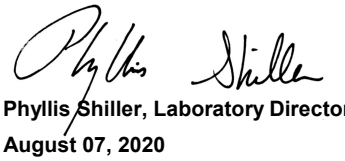
| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 10:55 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46351

Project ID: WINSTED MGP 60637859
Client ID: C1-W1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 90 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| Client MS/MSD | Completed | | | | 08/04/20 | | |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 320 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 2600 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Anthracene | 1200 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 3500 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 3900 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 4100 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 2700 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 2900 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Chrysene | 4300 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 770 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 5800 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluorene | 520 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 2800 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Naphthalene | 290 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 2000 | 250 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Pyrene | 6800 | 2500 | ug/Kg | 10 | 08/05/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 68 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 | 64 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 | 86 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/05/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/05/20 | AW | 30 - 130 % |

**Ver 1**

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46351
Client ID: C1-W1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | |
|---|---|---|---|---|---|---|---|
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/05/20 | AW | 30 - 130 % |

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

## Comments:

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

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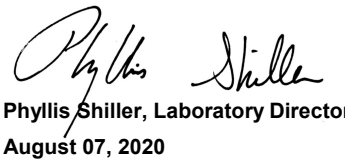

**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 11:08 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46352

Project ID: WINSTED MGP 60637859
Client ID: C1-E1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 93 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 1000 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Acenaphthene | ND | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | ND | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Anthracene | ND | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 1300 | 1200 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 1900 | 1100 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 1800 | 1200 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 1900 | 1100 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 1300 | 1200 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Chrysene | 1400 | 1200 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | ND | 1100 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Fluoranthene | ND | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Fluorene | ND | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 1400 | 1200 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Naphthalene | ND | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Phenanthrene | ND | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Pyrene | 2600 | 2400 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46352
Client ID: C1-E1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

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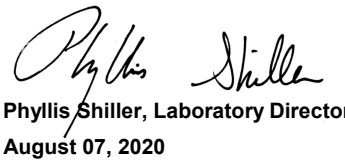

**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 11:15 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46353

Project ID: WINSTED MGP 60637859
Client ID: C1-N1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 89 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 290 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthene | ND | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | 2600 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Anthracene | 1000 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 4500 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 5300 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 5500 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 3300 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 4100 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Chrysene | 4900 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | 980 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluoranthene | 6400 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluorene | 330 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 3600 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Naphthalene | 280 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Phenanthrene | 1300 | 260 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Pyrene | 6400 | 2600 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 64 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 62 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 | 81 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |

**Ver 1**

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46353
Client ID: C1-N1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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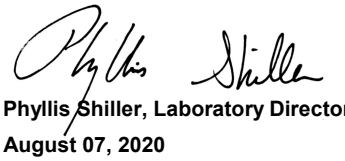

**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 11:20 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46354

Project ID: WINSTED MGP 60637859
Client ID: C1-S1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 88 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 370 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 1800 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Anthracene | 700 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 2100 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 2600 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 2300 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 1700 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 2300 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Chrysene | 2600 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 450 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 3300 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluorene | 330 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 1900 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Naphthalene | 310 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 870 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Pyrene | 4000 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 64 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 | 64 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 | 77 | | % | 1 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46354
Client ID: C1-S1 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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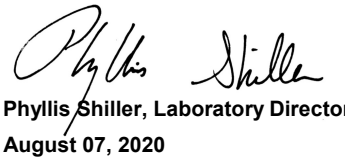


**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 11:30 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46355

Project ID: WINSTED MGP 60637859
Client ID: C1-E2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 83 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 1100 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthene | ND | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | 9000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Anthracene | 6500 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 24000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 24000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 22000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 14000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 18000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Chrysene | 25000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | 4200 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluoranthene | 32000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Fluorene | 1600 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 15000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Naphthalene | 1200 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Phenanthrene | 7300 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Pyrene | 49000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 72 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 78 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 | 103 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |

**Ver 1**

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46355
Client ID: C1-E2 (0.5-2`) 1

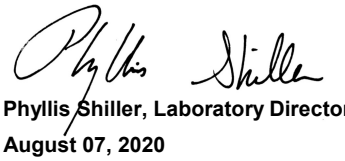
| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 11:40 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46356

Project ID: WINSTED MGP 60637859
Client ID: C1-N2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 82 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 460 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 2600 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Anthracene | 840 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 1400 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 2400 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 1900 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 2500 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 1900 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Chrysene | 1900 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 630 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 1500 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluorene | 580 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 2200 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Naphthalene | 460 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 770 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Pyrene | 2600 | 280 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 68 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 | 69 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 | 83 | | % | 1 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46356
Client ID: C1-N2 (0.5-2`) 1

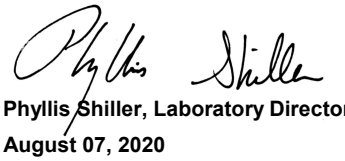
| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 11:45 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46357

Project ID: WINSTED MGP 60637859
Client ID: C1-W2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 88 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthene | ND | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Acenaphthylene | 1300 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Anthracene | 590 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benz(a)anthracene | 2000 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(a)pyrene | 2200 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(b)fluoranthene | 2200 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(ghi)perylene | 1400 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Benzo(k)fluoranthene | 1700 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Chrysene | 2300 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Dibenz(a,h)anthracene | 430 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluoranthene | 3200 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Fluorene | 270 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Indeno(1,2,3-cd)pyrene | 1600 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Naphthalene | ND | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Phenanthrene | 920 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| Pyrene | 4100 | 260 | ug/Kg | 1 | 08/04/20 | AW | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 74 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Nitrobenzene-d5 | 69 | | % | 1 | 08/04/20 | AW | 30 - 130 % |
| % Terphenyl-d14 | 94 | | % | 1 | 08/04/20 | AW | 30 - 130 % |

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46357
Client ID: C1-W2 (0.5-2`) 1

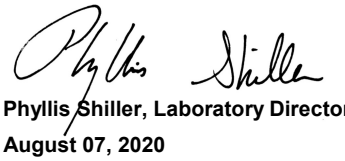
| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

August 07, 2020

FOR: Attn: Mr. Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 08/03/20 | 11:51 |
| Location Code: | AECOM-CT | Received by: | LB | 08/03/20 | 13:40 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 126967 | | | | |

## Laboratory Data

SDG ID: GCG46350
Phoenix ID: CG46358

Project ID: WINSTED MGP 60637859
Client ID: C1-S2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 82 | | % | | 08/03/20 | HB | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 08/03/20 | K/E | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 850 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthene | ND | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Acenaphthylene | 4000 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Anthracene | 2200 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benz(a)anthracene | 5700 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(a)pyrene | 6400 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(b)fluoranthene | 6100 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(ghi)perylene | 3700 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Benzo(k)fluoranthene | 5600 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Chrysene | 6700 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Dibenz(a,h)anthracene | 1100 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Fluoranthene | 7000 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| Fluorene | 1300 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | 4100 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Naphthalene | 660 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Phenanthrene | 4900 | 280 | ug/Kg | 1 | 08/04/20 | WB | SW8270D |
| Pyrene | 9100 | 2800 | ug/Kg | 10 | 08/04/20 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 72 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 70 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 | 91 | | % | 1 | 08/04/20 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 08/04/20 | WB | 30 - 130 % |

**Ver 1**

Project ID: WINSTED MGP 60637859 Phoenix I.D.: CG46358
Client ID: C1-S2 (0.5-2`) 1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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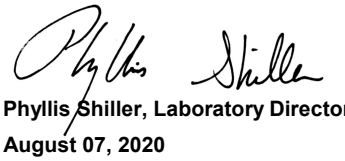

**Phyllis Shiller, Laboratory Director**
**August 07, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# QA/QC Report

August 07, 2020

## QA/QC Data

SDG I.D.: GCG46350

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 539898 (ug/kg), QC Sample No: CG46351 (CG46350, CG46351, CG46352, CG46353, CG46354, CG46355, CG46356, CG46357, CG46358) | | | | | | | | | | | |
| **Polynuclear Aromatic HC - Soil** | | | | | | | | | | | |
| 2-Methylnaphthalene | ND | 230 | 76 | 74 | 2.7 | 65 | 95 | 37.5 | 40 - 140 | 30 | r |
| Acenaphthene | ND | 230 | 80 | 78 | 2.5 | 69 | 91 | 27.5 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 230 | 76 | 73 | 4.0 | NC | NC | NC | 40 - 140 | 30 | |
| Anthracene | ND | 230 | 80 | 76 | 5.1 | 53 | 129 | 83.5 | 40 - 140 | 30 | r |
| Benz(a)anthracene | ND | 230 | 81 | 78 | 3.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(a)pyrene | ND | 230 | 89 | 84 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(b)fluoranthene | ND | 230 | 106 | 100 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(ghi)perylene | ND | 230 | 89 | 84 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Benzo(k)fluoranthene | ND | 230 | 66 | 62 | 6.3 | NC | NC | NC | 40 - 140 | 30 | |
| Chrysene | ND | 230 | 79 | 77 | 2.6 | NC | NC | NC | 40 - 140 | 30 | |
| Dibenz(a,h)anthracene | ND | 230 | 93 | 83 | 11.4 | 64 | 109 | 52.0 | 40 - 140 | 30 | r |
| Fluoranthene | ND | 230 | 79 | 76 | 3.9 | NC | NC | NC | 40 - 140 | 30 | |
| Fluorene | ND | 230 | 78 | 75 | 3.9 | 59 | 95 | 46.8 | 40 - 140 | 30 | r |
| Indeno(1,2,3-cd)pyrene | ND | 230 | 88 | 83 | 5.8 | NC | NC | NC | 40 - 140 | 30 | |
| Naphthalene | ND | 230 | 67 | 67 | 0.0 | 56 | 85 | 41.1 | 40 - 140 | 30 | r |
| Phenanthrene | ND | 230 | 78 | 75 | 3.9 | NC | NC | NC | 40 - 140 | 30 | |
| Pyrene | ND | 230 | 84 | 78 | 7.4 | NC | NC | NC | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 67 | % | 68 | 67 | 1.5 | 57 | 73 | 24.6 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 63 | % | 62 | 62 | 0.0 | 52 | 74 | 34.9 | 30 - 130 | 30 | r |
| % Terphenyl-d14 | 80 | % | 82 | 80 | 2.5 | 62 | 90 | 36.8 | 30 - 130 | 30 | r |

Comment:

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

r = This parameter is outside laboratory RPD specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
August 07, 2020

Friday, August 07, 2020
Criteria: CT: GAM, RC
State: CT

# Sample Criteria Exceedances Report

## GCG46350 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46350 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 1300 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1700 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1700 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1300 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1300 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1700 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1300 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1300 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1700 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1700 | 270 | 1000 | 1000 | ug/Kg |
| CG46350 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1500 | 270 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 2800 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 3900 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 4100 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 3500 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2700 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 4300 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2800 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 4100 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2900 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5800 | 250 | 5600 | 5600 | ug/Kg |
| CG46351 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 3500 | 250 | 1000 | 1000 | ug/Kg |
| CG46351 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6800 | 2500 | 4000 | 4000 | ug/Kg |
| CG46351 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 3900 | 250 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 1400 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC RES (mg/kg) / APS Organics | ND | 1100 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1900 | 1100 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1800 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1300 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1400 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | ND | 1100 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1400 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1900 | 1100 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | ND | 1000 | 560 | 560 | ug/Kg |
| CG46352 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1300 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1300 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1800 | 1200 | 1000 | 1000 | ug/Kg |
| CG46352 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1900 | 1100 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 3600 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 5500 | 260 | 1000 | 1000 | ug/Kg |

Friday, August 07, 2020
Criteria: CT: GAM, RC
State: CT

# Sample Criteria Exceedances Report

## GCG46350 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46353 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 5300 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 4500 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 4900 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 3600 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 3300 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6400 | 2600 | 4000 | 4000 | ug/Kg |
| CG46353 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6400 | 260 | 5600 | 5600 | ug/Kg |
| CG46353 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 4100 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5300 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 4500 | 260 | 1000 | 1000 | ug/Kg |
| CG46353 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5500 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 1900 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 2100 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 2600 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1700 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1900 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2600 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2600 | 260 | 1000 | 1000 | ug/Kg |
| CG46354 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2100 | 260 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 15000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC RES (mg/kg) / APS Organics | 4200 | 280 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Benzo(ghi)perylene | CT / RSR DEC RES (mg/kg) / APS Organics | 14000 | 2800 | 8400 | 8400 | ug/Kg |
| CG46355 | $8100SMR | Benzo(k)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 18000 | 2800 | 8400 | 8400 | ug/Kg |
| CG46355 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 24000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 22000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 24000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 15000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 4200 | 280 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 25000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1100 | 280 | 560 | 560 | ug/Kg |
| CG46355 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 14000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 9000 | 2800 | 8400 | 8400 | ug/Kg |
| CG46355 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 18000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 7300 | 280 | 4000 | 4000 | ug/Kg |
| CG46355 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 32000 | 2800 | 5600 | 5600 | ug/Kg |
| CG46355 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 24000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 24000 | 2800 | 1000 | 1000 | ug/Kg |

Friday, August 07, 2020
Criteria: CT: GAM, RC
State: CT

# Sample Criteria Exceedances Report

## GCG46350 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46355 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 22000 | 2800 | 1000 | 1000 | ug/Kg |
| CG46355 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 49000 | 2800 | 4000 | 4000 | ug/Kg |
| CG46356 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 2200 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1400 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 2400 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 1900 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2200 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2500 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1900 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2400 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1400 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1900 | 280 | 1000 | 1000 | ug/Kg |
| CG46356 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1900 | 280 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 1600 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 2200 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 2000 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 2200 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1600 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1400 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 1700 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 4100 | 260 | 4000 | 4000 | ug/Kg |
| CG46357 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2200 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2000 | 260 | 1000 | 1000 | ug/Kg |
| CG46357 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 2200 | 260 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC RES (mg/kg) / APS Organics | 1100 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 4100 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 6100 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 6400 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 5700 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 3700 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 6700 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1100 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 4100 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 850 | 280 | 560 | 560 | ug/Kg |
| CG46358 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6400 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5700 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6100 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5600 | 280 | 1000 | 1000 | ug/Kg |
| CG46358 | $8100SMR | Fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 7000 | 2800 | 5600 | 5600 | ug/Kg |

Friday, August 07, 2020

Criteria: CT: GAM, RC

State: CT

# Sample Criteria Exceedances Report

## GCG46350 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG46358 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 9100 | 2800 | 4000 | 4000 | ug/Kg |
| CG46358 | $8100SMR | Phenanthrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 4900 | 280 | 4000 | 4000 | ug/Kg |

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

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

***Laboratory Name:*** Phoenix Environmental Labs, Inc. ***Client:*** AECOM

***Project Location:*** WINSTED MGP 60637859 ***Project Number:***

***Laboratory Sample ID(s):*** CG46350-CG46358 ***Sampling Date(s):*** 8/3/2020

***List RCP Methods Used (e.g., 8260, 8270, et cetera)*** 8270

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

**Notes: 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". This form may not be altered and all questions must be answered.**

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

**Authorized Signature:** Rashmi Makol **Position:** Project Manager

**Printed Name:** Rashmi Makol **Date:** Friday, August 07, 2020

**Name of Laboratory** Phoenix Environmental Labs, Inc.

**This certification form is to be used for RCP methods only.**

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

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

NY # 11301

# RCP Certification Report

August 07, 2020

SDG I.D.: GCG46350

## *SDG Comments*

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Sample(CG46352) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

## *SVOA Narration*

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

**QC Batch 539898 (Samples: CG46350, CG46351, CG46352, CG46353, CG46354, CG46355, CG46356, CG46357, CG46358): -----**

**The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (2-Methylnaphthalene, Anthracene, Dibenz(a,h)anthracene, Fluorene, Naphthalene)**

**The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Nitrobenzene-d5, % Terphenyl-d14)**

**Instrument:**

**CHEM07 08/03/20-1** Matt Richard, Chemist 08/03/20

CG46350 (1X), CG46351 (1X), CG46352 (10X), CG46353 (1X), CG46354 (1X), CG46355 (1X), CG46356 (1X), CG46357 (1X), CG46358 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BN_0716):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0803_10-7_BN_0716):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

**CHEM07 08/04/20-1** Wes Bryon, Chemist 08/04/20

CG46353 (10X), CG46355 (10X), CG46358 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_SPLIT_0716):
100% of target compounds met criteria.

**Environmental Laboratories, Inc.**
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

August 07, 2020

SDG I.D.: GCG46350

## *SVOA Narration*

The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0804_05-7_SPLIT_0716):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

**CHEM28 08/05/20-1** Matt Richard, Chemist 08/05/20

CG46351 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_SPLIT_0803):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0805_03-28_SPLIT_0803):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

**QC (Site Specific):**

**Batch 539898 (CG46351)**

CG46350, CG46351, CG46352, CG46353, CG46354, CG46355, CG46356, CG46357, CG46358

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % Nitrobenzene-d5(34.9%), % Terphenyl-d14(36.8%), 2-Methylnaphthalene(37.5%), Anthracene(83.5%), Dibenz(a,h)anthracene(52.0%), Fluorene(46.8%), Naphthalene(41.1%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

## *Temperature Narration*

The samples were received at 5.8C with cooling initiated.

PHOENIX

**Environmental Laboratories, Inc.**
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**Tel. (860) 645-1102 Fax (860) 645-0823**

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

August 07, 2020

SDG I.D.: GCG46350

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐

# PHOENIX
*Environmental Laboratories, Inc.*

## CHAIN OF CUSTODY RECORD

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

Temp 5.8 °C Pg 1 of 1

**Data Delivery/Contact Options:**
☐ Fax:
☐ Phone:
☒ Email: dustin.bytautas@aecom.com

Customer: AECOM
Address: 500 Enterprise Drive, 1A
Rocky Hill, CT 06067

Project: Winsted MGP
Report to: Dustin Bytautas
Invoice to: "
QUOTE #

Project P.O:

***This section MUST be completed with Bottle Quantities.***

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 8/3/20

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

Analysis Request

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | PAH 8270 | MS/MSD* | GL Amber 8 oz. w/H3PO4 | Soil VOA Vials [ ] methanol [ ] H2O | GL Soil container ( ) oz | GL Soil container ( 4 ) oz | 40 ml VOA Vial [ ] As is [ ] HCL | GL Amber 1000ml [ ] As is [ ] H2SO4 | PL As is [ ] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle w/thio | Bacteria Bottle as is |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 460350 | C1-RE(0.5-2')-1 | SO | 8/3 | 1051 | X | | | | | 1 | | | | | | | | |
| 460351 | C1-W1(0.5-2')-1 | SO | 8/3 | 1055 | X | | | | X | 3 | | | | | | | | |
| 460352 | C1-E1(0.5-2')-1 | SO | 8/3 | 1108 | X | | | | | 1 | | | | | | | | |
| 460353 | C1-N1(0.5-2')-1 | SO | 8/3 | 1115 | X | | | | | 1 | | | | | | | | |
| 460354 | C1-S1(0.5-2')-1 | SO | 8/3 | 1120 | X | | | | | 1 | | | | | | | | |
| 460355 | C1-E2(0.5-2')-1 | SO | 8/3 | 1130 | X | | | | | 1 | | | | | | | | |
| 460356 | C1-N2(0.5-2')-1 | SO | 8/3 | 1140 | X | | | | | 1 | | | | | | | | |
| 460357 | C1-W2(0.5-2')-1 | SO | 8/3 | 1145 | X | | | | | 1 | | | | | | | | |
| 460358 | C1-S2(0.5-2')-1 | SO | 8/3 | 1151 | X | | | | | 1 | | | | | | | | |
| | [illegible] | SO | 8/3 | | X | | | | | 1 | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 8/3/20 | 1340 |
| | | | |

**Comments, Special Requirements or Regulations:**

**MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.*

**Turnaround Time:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

**RI**
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

**CT**
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

**MA**
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2 ☐ S-1 10% CALC
☐ GW-3
☐ S-1 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ SW Protection

**State where samples were collected:** CT

**Data Format**
☒ Excel
☒ PDF
☐ GIS/Key
☒ EQuIS
☐ Other

**Data Package**
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

PEL-126 REV. 06/20

PHOENIX
Environmental Laboratories, Inc.

**Friday, September 11, 2020**

**Attn: Dustin Bytautas**
**AECOM**
**500 Enterprise Dr Suite 1A**
**Rocky Hill CT 06067**

**Project ID:**
**SDG ID: GCG71956**
**Sample ID#s: CG71958, CG71960**

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

**This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.**

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

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

**If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.**

**Sincerely yours,**

**Phyllis Shiller**
**Laboratory Director**

**NELAC - #NY11301**
**CT Lab Registration #PH-0618**
**MA Lab Registration #M-CT007**
**ME Lab Registration #CT-007**
**NH Lab Registration #213693-A,B**
**NJ Lab Registration #CT-003**
**NY Lab Registration #11301**
**PA Lab Registration #68-03530**
**RI Lab Registration #63**
**UT Lab Registration #CT00007**
**VT Lab Registration #VT11301**



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

# Sample Id Cross Reference

September 11, 2020

SDG I.D.: GCG71956

Project ID:

| Client Id | Lab Id | Matrix |
|---|---|---|
| F1-S3(0.5-2)-1 | CG71958 | SOIL |
| F1-SE1(0.5-2)-1 | CG71960 | SOIL |

Environmental Laboratories, Inc.
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# Analysis Report

September 11, 2020

FOR: Attn: Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 09/08/20 | 9:08 |
| Location Code: | AECOM-CT | Received by: | SW | 09/08/20 | 11:21 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | NEED POS | | | | |

## Laboratory Data

SDG ID: GCG71956
Phoenix ID: CG71958

Project ID:
Client ID: F1-S3(0.5-2)-1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 90 | | % | | 09/08/20 | CG | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 09/08/20 | K/M | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 1000 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Acenaphthene | 260 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Acenaphthylene | 7800 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Anthracene | 5600 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Benz(a)anthracene | 5000 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Benzo(a)pyrene | 8500 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Benzo(b)fluoranthene | 5300 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Benzo(ghi)perylene | 10000 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Benzo(k)fluoranthene | 3600 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Chrysene | 5600 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Dibenz(a,h)anthracene | 2300 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Fluoranthene | 4200 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Fluorene | 2100 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Indeno(1,2,3-cd)pyrene | 7100 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Naphthalene | 1900 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Phenanthrene | 1200 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Pyrene | 6400 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 78 | | % | 1 | 09/09/20 | KCA | 30 - 130 % |
| % Nitrobenzene-d5 | 82 | | % | 1 | 09/09/20 | KCA | 30 - 130 % |
| % Terphenyl-d14 | 108 | | % | 1 | 09/09/20 | KCA | 30 - 130 % |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 09/09/20 | KCA | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 09/09/20 | KCA | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 09/09/20 | KCA | 30 - 130 % |

**Ver 1**

Project ID: Phoenix I.D.: CG71958

Client ID: F1-S3(0.5-2)-1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

**Phyllis Shiller, Laboratory Director**
**September 11, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

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

# Analysis Report

September 11, 2020

FOR: Attn: Dustin Bytautas
AECOM
500 Enterprise Dr Suite 1A
Rocky Hill CT 06067

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 09/08/20 | 9:11 |
| Location Code: | AECOM-CT | Received by: | SW | 09/08/20 | 11:21 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | NEED POS | | | | |

## Laboratory Data

SDG ID: GCG71956
Phoenix ID: CG71960

Project ID:
Client ID: F1-SE1(0.5-2)-1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Percent Solid | 91 | | % | | 09/08/20 | CG | SW846-%Solid |
| Soil Extraction for SVOA PAH | Completed | | | | 09/08/20 | K/M | SW3546 |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | 1800 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Acenaphthene | 440 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Acenaphthylene | 13000 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Anthracene | 3700 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Benz(a)anthracene | 3100 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Benzo(a)pyrene | 7100 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Benzo(b)fluoranthene | 6400 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Benzo(ghi)perylene | 11000 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Benzo(k)fluoranthene | 3500 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Chrysene | 3600 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Dibenz(a,h)anthracene | 2400 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Fluoranthene | 3700 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Fluorene | 2900 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Indeno(1,2,3-cd)pyrene | 8700 | 2600 | ug/Kg | 10 | 09/09/20 | KCA | SW8270D |
| Naphthalene | 3500 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Phenanthrene | 1500 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| Pyrene | 5800 | 260 | ug/Kg | 1 | 09/09/20 | KCA | SW8270D |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 74 | | % | 1 | 09/09/20 | KCA | 30 - 130 % |
| % Nitrobenzene-d5 | 78 | | % | 1 | 09/09/20 | KCA | 30 - 130 % |
| % Terphenyl-d14 | 113 | | % | 1 | 09/09/20 | KCA | 30 - 130 % |
| % 2-Fluorobiphenyl (10x) | Diluted Out | | % | 10 | 09/09/20 | KCA | 30 - 130 % |
| % Nitrobenzene-d5 (10x) | Diluted Out | | % | 10 | 09/09/20 | KCA | 30 - 130 % |
| % Terphenyl-d14 (10x) | Diluted Out | | % | 10 | 09/09/20 | KCA | 30 - 130 % |

**Ver 1**

Project ID: Phoenix I.D.: CG71960

Client ID: F1-SE1(0.5-2)-1

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By |
|---|---|---|---|---|---|---|

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

## Comments:

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

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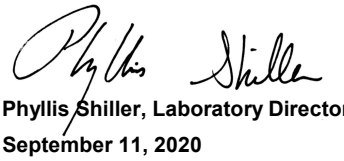

**Phyllis Shiller, Laboratory Director**
**September 11, 2020**
**Reviewed and Released by: Rashmi Makol, Project Manager**

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

September 11, 2020

## QA/QC Data

SDG I.D.: GCG71956

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 544532 (ug/kg), QC Sample No: CG71568 (CG71958, CG71960) | | | | | | | | | | |
| **Polynuclear Aromatic HC - Soil** | | | | | | | | | | |
| 2-Methylnaphthalene | ND | 230 | 85 | 94 | 10.1 | 85 | 78 | 8.6 | 40 - 140 | 30 |
| Acenaphthene | ND | 230 | 91 | 100 | 9.4 | 98 | 94 | 4.2 | 30 - 130 | 30 |
| Acenaphthylene | ND | 230 | 87 | 96 | 9.8 | 81 | 77 | 5.1 | 40 - 140 | 30 |
| Anthracene | ND | 230 | 97 | 102 | 5.0 | 74 | 70 | 5.6 | 40 - 140 | 30 |
| Benz(a)anthracene | ND | 230 | 98 | 106 | 7.8 | NC | NC | NC | 40 - 140 | 30 |
| Benzo(a)pyrene | ND | 230 | 104 | 113 | 8.3 | 49 | 47 | 4.2 | 40 - 140 | 30 |
| Benzo(b)fluoranthene | ND | 230 | 122 | 130 | 6.3 | 79 | 72 | 9.3 | 40 - 140 | 30 |
| Benzo(ghi)perylene | ND | 230 | 95 | 102 | 7.1 | 79 | 74 | 6.5 | 40 - 140 | 30 |
| Benzo(k)fluoranthene | ND | 230 | 73 | 80 | 9.2 | NC | NC | NC | 40 - 140 | 30 |
| Chrysene | ND | 230 | 92 | 102 | 10.3 | NC | NC | NC | 40 - 140 | 30 |
| Dibenz(a,h)anthracene | ND | 230 | 91 | 97 | 6.4 | 84 | 80 | 4.9 | 40 - 140 | 30 |
| Fluoranthene | ND | 230 | 100 | 106 | 5.8 | NC | NC | NC | 40 - 140 | 30 |
| Fluorene | ND | 230 | 93 | 101 | 8.2 | 86 | 83 | 3.6 | 40 - 140 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 230 | 90 | 96 | 6.5 | 66 | 63 | 4.7 | 40 - 140 | 30 |
| Naphthalene | ND | 230 | 74 | 87 | 16.1 | 77 | 69 | 11.0 | 40 - 140 | 30 |
| Phenanthrene | ND | 230 | 93 | 99 | 6.3 | NC | NC | NC | 40 - 140 | 30 |
| Pyrene | ND | 230 | 102 | 107 | 4.8 | NC | NC | NC | 30 - 130 | 30 |
| % 2-Fluorobiphenyl | 86 | % | 85 | 94 | 10.1 | 92 | 87 | 5.6 | 30 - 130 | 30 |
| % Nitrobenzene-d5 | 78 | % | 73 | 87 | 17.5 | 84 | 75 | 11.3 | 30 - 130 | 30 |
| % Terphenyl-d14 | 100 | % | 106 | 113 | 6.4 | 112 | 105 | 6.5 | 30 - 130 | 30 |

Comment:

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

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

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

Phyllis Shiller, Laboratory Director
September 11, 2020

Friday, September 11, 2020
Criteria: CT: GAM, GBM, I/C, RC
State: CT

# Sample Criteria Exceedances Report

## GCG71956 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG71958 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 8500 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(ghi)perylene | CT / RSR DEC RES (mg/kg) / APS Organics | 10000 | 2600 | 8400 | 8400 | ug/Kg |
| CG71958 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 7100 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC RES (mg/kg) / APS Organics | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 5000 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 8500 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 5300 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 7100 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1000 | 260 | 560 | 560 | ug/Kg |
| CG71958 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 5600 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 10000 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5000 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6400 | 2600 | 4000 | 4000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 8500 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 3600 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5300 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(ghi)perylene | CT / RSR GB (mg/kg) / APS Organics | 10000 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GB (mg/kg) / APS Organics | 2300 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GB (mg/kg) / APS Organics | 7100 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Chrysene | CT / RSR GB (mg/kg) / APS Organics | 5600 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GB (mg/kg) / Semivolatiles | 3600 | 260 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GB (mg/kg) / Semivolatiles | 5300 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benzo(a)pyrene | CT / RSR GB (mg/kg) / Semivolatiles | 8500 | 2600 | 1000 | 1000 | ug/Kg |
| CG71958 | $8100SMR | Benz(a)anthracene | CT / RSR GB (mg/kg) / Semivolatiles | 5000 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC I/C (mg/kg) / APS Organics | 8700 | 2600 | 7800 | 7800 | ug/Kg |
| CG71960 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC I/C (mg/kg) / APS Organics | 2400 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC I/C (mg/kg) / Semivolatiles | 7100 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR DEC RES (mg/kg) / APS Organics | 2400 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR DEC RES (mg/kg) / APS Organics | 8700 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(ghi)perylene | CT / RSR DEC RES (mg/kg) / APS Organics | 11000 | 2600 | 8400 | 8400 | ug/Kg |
| CG71960 | $8100SMR | Benzo(b)fluoranthene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 6400 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(a)pyrene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 7100 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benz(a)anthracene | CT / RSR DEC RES (mg/kg) / Semivolatiles | 3100 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(ghi)perylene | CT / RSR GA,GAA (mg/kg) / APS Organics | 11000 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GA,GAA (mg/kg) / APS Organics | 8700 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GA,GAA (mg/kg) / APS Organics | 2400 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Chrysene | CT / RSR GA,GAA (mg/kg) / APS Organics | 3600 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | 2-Methylnaphthalene | CT / RSR GA,GAA (mg/kg) / APS Organics | 1800 | 260 | 560 | 560 | ug/Kg |
| CG71960 | $8100SMR | Acenaphthylene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 13000 | 2600 | 8400 | 8400 | ug/Kg |

Friday, September 11, 2020

Criteria: CT: GAM, GBM, I/C, RC

State: CT

# Sample Criteria Exceedances Report

## GCG71956 - AECOM-CT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CG71960 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 3500 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 6400 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(a)pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 7100 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benz(a)anthracene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 3100 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Pyrene | CT / RSR GA,GAA (mg/kg) / Semivolatiles | 5800 | 260 | 4000 | 4000 | ug/Kg |
| CG71960 | $8100SMR | Chrysene | CT / RSR GB (mg/kg) / APS Organics | 3600 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Dibenz(a,h)anthracene | CT / RSR GB (mg/kg) / APS Organics | 2400 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Indeno(1,2,3-cd)pyrene | CT / RSR GB (mg/kg) / APS Organics | 8700 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(ghi)perylene | CT / RSR GB (mg/kg) / APS Organics | 11000 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(b)fluoranthene | CT / RSR GB (mg/kg) / Semivolatiles | 6400 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(a)pyrene | CT / RSR GB (mg/kg) / Semivolatiles | 7100 | 2600 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benzo(k)fluoranthene | CT / RSR GB (mg/kg) / Semivolatiles | 3500 | 260 | 1000 | 1000 | ug/Kg |
| CG71960 | $8100SMR | Benz(a)anthracene | CT / RSR GB (mg/kg) / Semivolatiles | 3100 | 260 | 1000 | 1000 | ug/Kg |

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

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

***Laboratory Name:*** Phoenix Environmental Labs, Inc. ***Client:*** AECOM

***Project Location:*** F1-S5(0.5-2)-1 ***Project Number:***

***Laboratory Sample ID(s):*** CG71958, CG71960 ***Sampling Date(s):*** 9/8/2020

***List RCP Methods Used (e.g., 8260, 8270, et cetera)*** 8270

| | | |
|---|---|---|
| **1** | **For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?** | ☑ Yes ☐ No |
| **1A** | **Were the method specified preservation and holding time requirements met?** | ☑ Yes ☐ No |
| **1B** | ***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)** | ☐ Yes ☐ No ☑ NA |
| **2** | **Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?** | ☑ Yes ☐ No |
| **3** | **Were samples received at an appropriate temperature (< 6 Degrees C)?** | ☑ Yes ☐ No ☐ NA |
| **4** | **Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?** | ☑ Yes ☐ No |
| **5** | **a) Were reporting limits specified or referenced on the chain-of-custody?**<br>**b) Were these reporting limits met?** | ☑ Yes ☐ No<br>☑ 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 the data set?** | ☐ Yes ☑ No |

**Notes: 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". This form may not be altered and all questions must be answered.**

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

**Authorized Signature:** Ethan Lee **Position:** Project Manager

**Printed Name:** Ethan Lee **Date:** Friday, September 11, 2020

**Name of Laboratory** Phoenix Environmental Labs, Inc.

**This certification form is to be used for RCP methods only.**

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

September 11, 2020

SDG I.D.: GCG71956

## *SDG Comments*

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

## *SVOA Narration*

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

**Instrument:**

**CHEM34 09/08/20-1** Matt Richard, Chemist 09/08/20

CG71958 (1X), CG71960 (1X)

Initial Calibration Evaluation (CHEM34/34_BN_0819):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM34/0908_06-34_BN_0819):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

**CHEM36 09/09/20-1** Adam Werner, Chemist 09/09/20

CG71958 (10X), CG71960 (10X)

Initial Calibration Evaluation (CHEM36/36_SPLIT_0824):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM36/0909_03-36_SPLIT_0824):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

**QC (Batch Specific):**

**Batch 544532 (CG71568)**

CG71958, CG71960

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

September 11, 2020

SDG I.D.: GCG71956

***SVOA Narration***

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

# PHOENIX
*Environmental Laboratories, Inc.*

## CHAIN OF CUSTODY RECORD

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

Temp 2.3 °C Pg 1 of 1

**Data Delivery/Contact Options:**
[ ] Fax:
[ ] Phone:
[X] Email: dustin.bytautas@aecom.com

Customer: AECOM
Address: 500 Enterprise Dr. 1A
Rocky Hill, CT 06067

Project:
Report to: Dustin Bytautas
Invoice to: "
QUOTE #

Project P.O:

***This section MUST be completed with Bottle Quantities.***

**Client Sample - Information - Identification**

Sampler's Signature _____ Date: _____

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

Analysis Request

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | PAHs 8270 | PAHs 8270 (HOLD) | MS/MSD * | GL Amber 8 oz. w/H3PO4 | Soil VOA Vials [ ] methanol [ ] H2O | GL Soil container ( ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [ ] HCL | GL Amber 1000ml [ ] As is [ ] H2SO4 | PL As is [ ] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle w/thio | Bacteria Bottle as is |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71956 | F1-S5(0.5-2)-1 | S | 9/8/20 | 0820 | | X | | | | | | | | 1 | | | | | |
| 71957 | F1-S4(0.5-2)-1 | S | 9/8/20 | 0850 | | X | | | | | | | | 3 | | | | | |
| 71958 | F1-S3(0.5-2)-1 | S | 9/8/20 | 0908 | X | | | | | | | | | 1 | | | | | |
| 71959 | F1-S3(0.5-2)-2 | S | 9/8/20 | 0909 | (X) | X | | | | | | | | 1 | | | | | |
| 71960 | F1-SE1(0.5-2)-1 | S | 9/8/20 | 0911 | X | | | | | | | | | 1 | | | | | |
| 71961 | F1-SE3(0.5-2)-1 | S | 9/8/20 | 0913 | | X | | | | | | | | 1 | | | | | |
| 71962 | F1-SE2(0.5-2)-1 | S | 9/8/20 | 0915 | | X | | | | | | | | 1 | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | Phoenix Lobby | 9/8 | 1106 |
| | Staff | 9/8/20 | 1121 |
| | | | |

**Comments, Special Requirements or Regulations:**
F1-S4(0.5-2)-1 MS/MSD

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

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

**RI**
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

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

**MA**
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2 [ ] S-1 10% CALC
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

**State where samples were collected:** CT

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

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

PEL-126 REV. 06/20



The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 28
Page 115 of 127

# ATTACHMENT C –
# Data Usability Evaluation

# DATA USABILITY EVALUATION WORKSHEET

**Project Name:** Former Winsted MGP
Laboratory: Phoenix Environmental Laboratories

**Sample Delivery Group Number:** GCG46350
**Date Samples Collected:** 8/3/2020
**Number of Samples Collected**: 9
**Analysis:** SW-846 8270D (PAHs only)
**Reviewer:** Ryan Bott

**Describe the intended use of the data:**
The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements with the exceptions noted below. In addition, the data appear valid as reported and may be used for decision making purposes. No data were rejected.

| Nonconformance DQA Review Elements | Criteria | Briefly Summarize DQA Nonconformances |
|---|---|---|
| **Laboratory Report Inspection** | | Complete |
| **Reasonable Confidence Evaluation** | You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes. | Meets criteria. |
| **Chain of Custody Evaluation** | Analyses agree with COC | COC accompanied samples, analyses agree with COC. |
| **Sample Preservation and Holding Time Evaluation** | <6 °C<br>Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil) | Meets criteria. |
| **Percent Solids** | > 30% | Meets criteria. |
| **Field Duplicate** | Soils RPD ≤ 50% for results >2x Reporting Limit | No field duplicates collected for this Sample Delivery Group |
| **Method Blank** | < RLs | Meets criteria. |
| **Equipment Blanks** | < RLs | No equipment blanks collected for this Sample Delivery Group |
| **Initial and Continuing Calibration** | % RSD ≤ 15%, "r" ≥ 0.990<br>% difference or drift ≤ 30% | No issues narrated. |

| | | |
|---|---|---|
| **Laboratory Control Samples (Blank Spike)** | Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds | Meets criteria. |
| **Surrogates** | Percent recovery 30-130% | The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result (% nitrobenzene-d5, % terphenyl-d14).<br><br>Some surrogates for the following samples were diluted out for 10x dilutions:<br>• Sample C1-W1 (0.5-2') 1; CG46351<br>• Sample C1-E1 (0.5-2') 1; CG46352<br>• Sample C1-N1 (0.5-2') 1; CG46353<br>• Sample C1-E2 (0.5-2') 1; CG46355<br>• Sample C1-S2 (0.5-2') 1; CG46358 |
| **Site Specific Matrix Spikes and Matrix Spike Duplicates** | Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds | The MS/MSD RFP exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result (2-methylnaphthalene, anthracene, dibenz(a,h)anthracene, fluorene, naphthalene). |
| **Quantitation Limits** | Dilutions | Sample CG46352 required a dilution for semivolatiles due to a matrix interference and/or the presence of a large amount of nontarget material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.<br><br>Sample C1-W1 (0.5-2') 1; CG46351: Sample results for pyrene from 10x dilution.<br><br>Sample C1-E1 (0.5-2') 1; CG46352: Sample results for all analytes from 10x dilution.<br><br>Sample C1-N1 (0.5-2') 1; CG46353: Sample results for pyrene from 10x dilution.<br><br>Sample C1-E2 (0.5-2') 1; CG46355: Sample results for acenaphthylene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene from 10x dilution.<br><br>Sample C1-S2 (0.5-2') 1; CG46358: Sample results for fluoranthene and pyrene from 10x dilution. |
| **Tentatively Identified Compounds** | | N/A |
| **Other QC data** | | Only the PAH constituents are reported as requested on the chain-of-custody. |

# DATA USABILITY EVALUATION WORKSHEET

**Project Name:** Former Winsted MGP
Laboratory: Phoenix Environmental Laboratories

**Sample Delivery Group Number:** GCG46340
**Date Samples Collected:** 8/3/2020
**Number of Samples Collected**: 10
**Analysis:** SW-846 8270D (PAHs only)
**Reviewer:** Ryan Bott

**Describe the intended use of the data:**
The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements with the exceptions noted below. In addition, the data appear valid as reported and may be used for decision making purposes. No data were rejected.

| Nonconformance DQA Review Elements | Criteria | Briefly Summarize DQA Nonconformances |
|---|---|---|
| **Laboratory Report Inspection** | | Complete |
| **Reasonable Confidence Evaluation** | You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes. | Meets criteria. |
| **Chain of Custody Evaluation** | Analyses agree with COC | COC accompanied samples, analyses agree with COC. |
| **Sample Preservation and Holding Time Evaluation** | <6 °C<br>Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil) | Meets criteria. |
| **Percent Solids** | > 30% | Meets criteria. |
| **Field Duplicate** | Soils RPD ≤ 50% for results >2x Reporting Limit | No field duplicates collected for this Sample Delivery Group |
| **Method Blank** | < RLs | Meets criteria. |
| **Equipment Blanks** | < RLs | No equipment blanks collected for this Sample Delivery Group |
| **Initial and Continuing Calibration** | % RSD ≤ 15%, "r" ≥ 0.990<br>% difference or drift ≤ 30% | No issues narrated. |

| | | |
|---|---|---|
| **Laboratory Control Samples (Blank Spike)** | Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds | Meets criteria. |
| **Surrogates** | Percent recovery 30-130% | Some surrogates for the following samples were diluted out for 10x and 100x dilutions:<br>• Sample F1-RE (0.5-2') 1; CG46341<br>• Sample F1-N1 (0.5-2') 1; CG46342<br>• Sample F1-N1 (0.5-2') 2; CG46343<br>• Sample F1-E1 (0.5-2') 1; CG46344<br>• Sample F1-S2 (0.5-2') 1; CG46345<br>• Sample F1-S1 (0.5-2') 1; CG46346<br>• Sample F1-W2 (0.5-2') 1; CG46347<br>• Sample F1-E2 (0.5-2') 1; CG46348<br>• Sample F1-W1 (0.5-2') 1; CG46349 |
| **Site Specific Matrix Spikes and Matrix Spike Duplicates** | Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds | Meets criteria. |
| **Quantitation Limits** | Dilutions | Sample F1-RE (0.5-2') 1; CG46341: Sample results for all analytes from 10x dilution except phenanthrene and pyrene (100x dilution).<br><br>Sample F1-N1 (0.5-2') 1; CG46342: Sample results for all analytes from 10x dilution.<br><br>Sample F1-N1 (0.5-2') 2; CG46343: Sample results for all analytes from 10x dilution.<br><br>Sample F1-E1 (0.5-2') 1; CG46344: Sample results for all analytes from 10x dilution.<br><br>Sample F1-S2 (0.5-2') 1; CG46345: Sample results for all analytes from 10x dilution except fluoranthene and pyrene (100x dilution).<br><br>Sample F1-S1 (0.5-2') 1; CG46346: Sample results for all analytes from 10x dilution.<br><br>Sample F1-W2 (0.5-2') 1; CG46347: Sample results for all analytes from 10x dilution.<br><br>Sample F1-E2 (0.5-2') 1; CG46348: Sample results for 2-methylnaphthalene, acenaphthylene, naphthalene, and phenanthrene from 10x dilution.<br><br>Sample F1-W1 (0.5-2') 1; CG46349: Sample results for all analytes from 10x dilution. |
| **Tentatively Identified Compounds** | | N/A |

| | | |
|---|---|---|
| **Other QC data** | | Only the PAH constituents are reported as requested on the chain-of-custody. |

# DATA USABILITY EVALUATION WORKSHEET

**Project Name:** Former Winsted MGP
Laboratory: Phoenix Environmental Laboratories

**Sample Delivery Group Number:** GCG71956
**Date Samples Collected:** 9/8/2020
**Number of Samples Collected**: 2 analyzed, 7 collected
**Analysis:** SW-846 8270D (PAHs only)
**Reviewer:** Ryan Bott

**Describe the intended use of the data:**
The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements with the exceptions noted below. In addition, the data appear valid as reported and may be used for decision making purposes. No data were rejected.

| Nonconformance DQA Review Elements | Criteria | Briefly Summarize DQA Nonconformances |
|---|---|---|
| **Laboratory Report Inspection** | | Complete |
| **Reasonable Confidence Evaluation** | You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes. | Meets criteria. |
| **Chain of Custody Evaluation** | Analyses agree with COC | COC accompanied samples, analyses agree with COC. |
| **Sample Preservation and Holding Time Evaluation** | <6 °C<br>Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil) | Meets criteria. |
| **Percent Solids** | > 30% | Meets criteria. |
| **Field Duplicate** | Soils RPD ≤ 50% for results >2x Reporting Limit | No field duplicates analyzed for this Sample Delivery Group |
| **Method Blank** | < RLs | Meets criteria. |
| **Equipment Blanks** | < RLs | No equipment blanks collected for this Sample Delivery Group |
| **Initial and Continuing Calibration** | % RSD ≤ 15%, "r" ≥ 0.990<br>% difference or drift ≤ 30% | No issues narrated. |

| | | |
|---|---|---|
| **Laboratory Control Samples (Blank Spike)** | Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds | Meets criteria. |
| **Surrogates** | Percent recovery 30-130% | Some surrogates for the following samples were diluted out:<br>• Sample F1-S3 (0.5-2') 1; CG71958<br>• Sample F1-SE1 (0.5-2') 1; CG71958 |
| **Site Specific Matrix Spikes and Matrix Spike Duplicates** | Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds | Meets criteria. |
| **Quantitation Limits** | Dilutions | Sample F1-S3 (0.5-2') 1; CG71958: Sample results for acenaphthylene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, and pyrene from 10x dilution.<br><br>Sample F1-SE1 (0.5-2') 1; CG71958: Sample results for acenaphthylene, anthracene, benzo(a)pyrene, benzo(ghi)perylene, and indeno(1,2,3-cd)pyrene from 10x dilution. |
| **Tentatively Identified Compounds** | | N/A |
| **Other QC data** | | Only the PAH constituents are reported as requested on the chain-of-custody. |

# ATTACHMENT D – Photograph Log

**Attachment D – Photograph Log**

AECOM Imagine it. Delivered.

## PHOTOGRAPH LOG

| **Client Name:** Eversource Energy | **Site Location:** 276 Main Street, Winsted CT | **Project No.** 60637859 |
|---|---|---|

| **Photo No.** | **Date:** |
|---|---|
| 1 | 11/2/2020 |

**Description:**
View of the asphalt cap installed at the C1 S.E.H. area on date of install (looking west).



| **Photo No.** | **Date:** |
|---|---|
| 2 | 11/2/2020 |

**Description:**
View of the asphalt cap installed at the F1 S.E.H. on date of install area (looking southeast).



**Attachment D – Photograph Log**

AECOM Imagine it. Delivered.

## PHOTOGRAPH LOG

| **Client Name:** Eversource Energy | **Site Location:** 276 Main Street, Winsted CT | **Project No.** 60637859 |
|---|---|---|

| **Photo No.** | **Date:** |
|---|---|
| 3 | 1/13/2021 |

**Description:**
View of the asphalt cap installed at the C1 S.E.H. area (looking northwest).



| **Photo No.** | **Date:** |
|---|---|
| 4 | 1/13/2021 |

**Description:**
View of the asphalt cap installed at the F1 S.E.H. area (looking north).



**Attachment D – Photograph Log**

AECOM Imagine it. Delivered.

## PHOTOGRAPH LOG

| **Client Name:** Eversource Energy | **Site Location:** 276 Main Street, Winsted CT | **Project No.** 60637859 |
|---|---|---|

| **Photo No.** | **Date:** |
|---|---|
| 5 | 5/14/2021 |

**Description:**
View of the asphalt cap installed at the C1 S.E.H. area (looking west).



| **Photo No.** | **Date:** |
|---|---|
| 6 | 5/14/2021 |

**Description:**
View of the asphalt cap installed at the F1 S.E.H. area (looking south).

