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*: Other Remediation Program	UST Facility ID: (if applicable)
Rem ID*:	Spill Case Number: (if known)

Part II: Site Information

Site Name*: Berlin Settling Basin
Site Address*: 107 Selden Street
City/Town*: Berlin State: CT Zip Code: 06037

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

Program: Significant Environmental Hazard	Project ID:
Program: PCB	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*: 12/13/2021 Version: Final

Part IV: Submitter Information

Name*: Matthew Calvert
E-mail*: matthew.calvert@eversource.com
Name of company/business this document is being submitted on behalf of: *
Eversource Energy Service Company

Significant Environmental Hazard Status Update Form: Soil [Connecticut General Statutes (CGS) Section 22a-6u]

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
BUREAU OF WATER PROTECTION & LAND REUSE
REMEDIATION DIVISION
79 ELM STREET
HARTFORD, CT 06106-5127 www.ct.gov/deep/remediation

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: Eversource Berlin Campus Settling Basin

Address or Location: 107 Selden Street

City/Town: Berlin State: CT Zip Code: 06037

Date(s) DEEP was notified: 9/19/12 DEEP Case Manager (if known): JING CHEN

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: 1/24/2019

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 ☐

Remediation started 4/6/2020 after receiving EPA approval of Remediation Plan on 6/27/2019. A total of 3,554.4 tons of soil with PCBs >50 parts per million (ppm) and 6,986.66 tons of soil with concentrations ranging from >1 but less than 50 ppm were remediated by soil excavation. A foot clean cap was placed over all excavation areas where PCBS ≤ 10 ppm remain. A Deed Notice was recorded on 12/8/2021 at Berlin Town Hall to document the area where the clean cap is located. The Remedial Action Report dated December 2021provides more detail on the remediation at the Site.

C. Inspection and Maintenance of Mitigation Measures

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

3/21/2021	2/14/22	1/10/22	12/14/21

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: Extensive soil remediation complete

3. Provide current photo documentation of mitigation measures.

Date of photos: Photos in Remedial Action Report PHOTOS ATTACHED ☐

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

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: 1/24/19
3. Anticipated date of completion of abatement: 9/10/2021

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)
Remedial Action Report	Weston & Sampson	12/13/2021	PCB

Part V – Party Identification and Contact Information

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

Owner Name: Rocky River Realty Company

Contact Person: Sal Giuliano Title: Real Estate Manager

Contact E-mail: salvatore.giuliano@eversource.com Contact Phone:8606656173 Ext.

Mailing Address: 107 Selden St

City/Town: Berlin State:CT Zip Code: 6037

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

Name: John Figurelli Title: VP

Firm: Weston & Sampson

E-mail: figurelj@wseinc.com Phone: 8606164081 Ext.

Mailing Address: 712 Brook St, Suite 103

City/Town: Rocky Hill State: CT Zip Code: 06067

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.

Eversource Energy Service Company
Gary Iadarola, Remediation Manager
107 Selden Street, BMN2
Berlin, CT 06037
860-665-3455

Contact Name:	Matthew Calvert		
Contact Person:	Matthew Calvert	Title: Sr. Env. Specialist	
Contact E-mail:	matthew.calvert@eversource.com	Contact Phone: 860-665-3446	Ext.
Mailing Address:	107 Selden Street, BMN2		
City/Town:	Berlin	State: CT	Zip Code: 6037

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: Matthew P. Calvert Title (if applicable): Sr, Env. Specialist



Signature_____ Date: 3/29/2022

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

Weston & Sampson
westonandsampson.com

712 Brook Street, Suite 103
Rocky Hill, CT 06067
tel: 860.513.1473

REPORT

December 2021

Eversource Energy

Remedial Action Report

Berlin Settling Basin
Berlin, Connecticut



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EXECUTIVE SUMMARY

Weston & Sampson Engineers, Inc. (Weston & Sampson), on behalf of Eversource Energy Service Company (Eversource), has prepared this Remedial Action Report (RAR) for the Eversource Berlin Campus Settling Basin Remediation. The Settling Basin is located at 107 Selden Street in Berlin, Connecticut (the "Site"). Remediation work was performed as described in the Remedial Action Plan (RAP) and the United States Environmental Protection Agency (EPA) Approval of the RAP, dated June 27, 2019. Any modifications to the RAP and EPA Approval were approved by EPA and the Connecticut Department of Energy and Environmental Protection (CT DEEP) prior to initiating any changes in the proposed work. The EPA Approval of the RAP and approved modification requests are included in Appendix A.

Weston & Sampson submitted the RAP to the EPA and the CT DEEP in January 2019. The RAP was prepared based on the findings from previous investigations performed at the Site between 2010 and 2018. The remedial goals for impacted soil at the Site were to achieve compliance with the (1) Federal Polychlorinated Biphenyls (PCBs) regulations in Chapter 40 of the Code of Federal Regulations Part 761 (40 CFR Part 761), (2) applicable remedial criteria in the CT DEEP Remediation Standard Regulations (RSRs), Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSA), (3) conditions in the Consent Order - COWSPCB 16-002 issued by the CT DEEP on December 26, 2018, and (4) Significant Environmental Hazard (SEH) requirements in Connecticut General Statutes (CGS) Section 22a-6u.

This report summarizes the remedial and construction activities performed, which included the excavation and offsite disposal of soil and concrete impacted by PCBs at concentrations greater than 10 milligrams per kilogram (>10 mg/kg). Soil with total PCB concentrations less than or equal to 10 milligrams per kilogram (≤10 mg/kg) were either transported offsite for disposal or consolidated within a portion of the excavation area and capped.

This RAR provides information required by the EPA Approval, which includes:

- A description of cleanup and disposal activities;
- Sample-data tables and figures showing the location of verification samples collected during remediation of PCBs and other Chemicals of Concern (COC) identified at the Site;
- Photographic documentation of remedial activities;
- Copies of laboratory analytical reports for waste characterization and verification sampling results;
- The quantity of PCB wastes disposed;
- Copies of manifests for disposal of PCB wastes; and
- A summary of the PCB cleanup and disposal costs.

The remediation documented in the RAR are summarized below:

- The majority of remediation activities to address PCBs and other COC were conducted at the Site between May 2020 and May 2021. The remediation was completed on September 7, 2021, when fencing was installed to delineate the area where PCBs ≤10 mg/kg but >1 mg/kg in soil were consolidated beneath a cap.
- The remediation was initiated by abandoning existing drainage utilities and installing new Site drainage utilities.

- Following installation of the new drainage system, soils containing total PCBs ≥50 mg/kg were excavated and disposed offsite at a permitted chemical waste landfill.
- Excavation areas, as identified in the RAP, were remediated until verification sample results indicated no further excavation was required to achieve the remedial goals.
- After soils containing total PCBs ≥50 mg/kg were successfully removed (as confirmed by post-excavation verification sampling), soils with total PCBs >10 mg/kg were excavated and disposed at a landfill permitted to accept PCB-remediation wastes at this concentration.
- After soils containing total PCBs >10 mg/kg were removed (as confirmed by post-excavation verification sampling), soils containing total PCBs >1 mg/kg but ≤10 mg/kg were consolidated and capped on-Site or were transported offsite for disposal at a landfill permitted to accept PCB remediation wastes at this concentration.
- Two new release areas, located beneath Campus Access Drive, were identified during the remedial activities. A notification of the newly identified conditions was made to EPA and CT DEEP on October 21, 2020, and remedial activities were completed, as described in the notification and subsequent modification requests.
- Soil removal activities were deemed complete when soil containing total PCBs >10 mg/kg were removed from within the remediation area and the perimeter of the remediation was defined by confirmatory samples with ≤1 mg/kg total PCBs.
- Soil analytical data for other COC and Synthetic Precipitation Leachate Procedure (SPLP) testing were used to demonstrate compliance as required in the Consent Order;
- Excavations were restored with clean backfill. In areas restored with turf, 6 inches of topsoil was placed over clean backfill to create a minimum thickness of 4 feet of clean materials over consolidated PCB-impacted soil. In areas restored with pavement, clean subbase and base materials were placed and compacted prior to placing a minimum of 3 inches of pavement. The minimum thickness of clean materials beneath the pavement is four feet;
- Final Site restoration activities, as described in the RAP, also included installation of permeable pavers over a portion of the cap to create an overflow parking area and installation of fencing around the perimeter of the cap to delineate the area of soils containing PCBs ≤10 mg/kg but >1 mg/kg.
- Remedial goals for the Site were achieved. Specifically: 1) soils containing PCBs >10 mg/kg were removed from the Site and disposed at appropriately permitted disposal facilities, 2) soil identified in Site investigations to contain other COC at concentrations greater than applicable RSR criteria were removed and disposed offsite with the PCB-impacted soil, 3) soils containing PCBs ≤10 mg/kg were consolidated onsite beneath a cap or transported offsite for disposal, 4) remedial actions were performed in accordance with the requirements of the RAP, EPA Approval, and the CT DEEP Consent Order, and 5) the area of soil containing the SEH condition was permanently addressed by excavation and offsite disposal.
- A map showing the Use Restriction Limits has been filed with the Town of Berlin.
- Post-remediation tasks will include groundwater monitoring as required in the RSRs and completion of a Screening Level Ecological Risk Assessment (SLERA) for the unnamed stream. The results and findings from these post-remediation tasks will be reported separately to CT DEEP.

1.0 INTRODUCTION

Weston & Sampson Engineers, Inc. (Weston & Sampson), on behalf of Eversource Energy Service Company (Eversource), has prepared this Remedial Action Report (RAR) for the Eversource Berlin Campus Settling Basin Remediation. The Settling Basin is located at 107 Selden Street in Berlin, Connecticut (the "Site"). A Locus Map is provided in Figure 1 and Figure 2 shows Site features prior to remediation.

Remediation work was performed as described in the Remedial Action Plan (RAP) prepared for the Site, and the United States Environmental Protection Agency (EPA) Approval of the RAP, dated June 27, 2019. Figure 3 shows the excavation areas as described in the RAP. The EPA Approval for the RAP and approved modification requests are included in Appendix A. Figure 4 shows the final extent of remedial excavations and verification sample locations.

Weston & Sampson submitted the RAP to EPA and Connecticut Department of Energy and Environmental Protection (CT DEEP) in January 2019. The RAP detailed the planned remedial actions and was prepared based on the findings from previous investigations performed at the Site between 2010 and 2018. The remedial goals for impacted soil at the Site were to achieve compliance with the (1) Federal Polychlorinated Biphenyl (PCB) regulations found in Chapter 40 of the Code of Federal Regulations Part 761 (40 CFR Part 761), (2) applicable remedial criteria in the CT DEEP Remediation Standard Regulations (RSRs), Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSA), (3) conditions of the Consent Order - COWSPCB 16-002 issued by CT DEEP on December 26, 2018 (Consent Order), and (4) Significant Environmental Hazard (SEH) requirements in Connecticut General Statutes (CGS) Section 22a-6u.

Any modifications and associated submittals to the RAP and EPA Approval were approved by EPA and the CT DEEP prior to initiating any changes in the proposed work and are presented below:

- February 12, 2020, EPA Submittal, and March 10, 2020, Email Correspondence – Required Submittal under PCB Cleanup and Risk-Based Disposal under 40 CFR 761-61(a) and (c). As required under Condition 11a in the PCB Cleanup and Risk-Based approval, Weston & Sampson submitted pre-verification sample results for soil located within the proposed sheet pile area along the stream. This submittal also served as notice to EPA under Condition 1a of the EPA Approval for PCB contaminated soil in the newly delineated area. Specifically, this notification applies to analytical results from catch basins and piping and the identification of PCB-contaminated soil that was not described in the EPA Approval.
- September 15, 2020, EPA Submittal – Notification and Modification Request under EPA Approval General Condition 1a and 16. Weston & Sampson provided notification of two newly identified conditions at the Site, including: 1) the identification of debris consisting of brick, black viscous (non-flowing) tar material, gray ash, metal, concrete masonry units, wood (small pieces of timber and plywood), ceramic tile, felt material and charred materials within the excavations performed beneath the Campus Access Drive with some of the debris impacted by PCBs; and 2) the identification of soil impacted with PCBs at concentrations $\geq$50 mg/kg (milligrams per kilogram) in soil beneath the Campus Access Drive. Previous site characterization was not performed within the road and borings advanced on either side of the road were used to design remedial actions. Characterization soil samples collected from borings on both sides of the road identified total PCBs at concentrations $<$10 mg/kg.
- October 21, 2020, EPA Submittal and November 9 and 16, 2020, Email Correspondence - This Request was provided to EPA and CT DEEP by Weston & Sampson to notify them of

conditions not previously identified at the Site within excavations performed beneath the Campus Access Drive as part of the Berlin Settling Basin remediation. The conditions included (1) soil impacted with PCBs at concentrations ≥50 milligram per kilogram (mg/kg) and (2) debris within the excavations with some of the debris impacted by PCBs. These areas were not previously identified during site characterization because soil borings were not completed within the roadway and samples on both sides of the roadway indicated concentrations of PCBs were <10 mg/kg. The modification requested was to extend the area to be covered by an Environmental Use Restriction (EUR). Specifically, the area of soils containing PCBs >1 mg/kg but ≤10 mg/kg to be rendered inaccessible would extend beneath Campus Access Drive. This submittal provides additional information requested by EPA and CTDEEP following their review of the Request.

- December 10, 2020, EPA Submittal – This submittal related to the Modification and Notification Request submitted on September 15, 2020, above. The request provided a Notification of the discovery of a new area of soils containing PCBs ≥50 mg/kg and two areas of PCB-containing debris at locations not previously identified. The Modification requested an expansion of the EUR for the Site to cover additional areas where soil containing PCBs ≤10 mg/kg would be left in place.
    - Modification and Notification Request – Supplemental Information submitted on October 21, 2020. This supplemental submittal included data and figures describing additional sampling that was performed to delineate impacts within the previously unidentified area with soils containing PCBs ≥50 mg/kg. It also described remedial actions that would be performed to remove soil containing PCBs >10 mg/kg using sheet pile for a deep excavation (subsequently identified as excavation area E30).
    - Final Conditions Figure with Cross-Section Location and Final Roadway Cross-Section submitted on November 13, 2020. These figures addressed questions from EPA concerning remediation and final conditions in this area. EPA approved the modification request in an email dated November 29, 2020. This submittal of supplemental information provides additional information gathered from the Site since the October 21, 2020, letter, and requests that no additional verification samples be required to verify the completion of the excavation at E30.

This RAR summarizes the remedial and construction activities performed, which included the excavation and offsite disposal of soil and concrete containing PCBs >10 mg/kg. Soil that exceeded other applicable RSR remedial criteria for non-PCB Chemicals of Concern (COC) were removed with the PCB-impacted soil. Soil containing PCBs ≤10 mg/kg were consolidated within a portion of the excavation area and capped.

This RAR provides the information required by the EPA Approval, which includes:

- A description of cleanup and disposal activities (Section 2);
- Sample data tables and figures showing the location of verification samples collected during remediation of PCBs (Table 1 and Figure 4);
- Soil analytical data for other COC to demonstrate compliance for other COC as required in the Consent Order, are provided (Table 2) as are analytical results for Synthetic Precipitation Leachate Procedure (SPLP) testing (Table 3);
- Photographic documentation of remedial activities (Appendix B);
- Copies of laboratory analytical reports for waste characterization and verification samples with required supporting documentation (Appendix C);

- The quantity of PCB wastes disposed (Section 3);
- Copies of manifests for disposal of PCB wastes (Appendix D); and
- A summary of the PCB cleanup and disposal costs (Section 3).

Other information pertinent to the Site remediation also included in this RAR are as follows:

- Dust monitoring data (Appendix E);
- Post-treatment analytical data for dewatering effluent prior to discharge to a Wastewater Pollution Control Facility (WPCF) (Appendix F);
- Analytical data for clean backfill materials used during Site restoration (Appendix G);
- Pertinent SEH documents (Appendix H); and
- A Use Restriction, map showing the restrictions and certification of a recording of a notation on the land records (Appendix I).
- A certification of documents letter signed by a duly authorized representative, as required by the Final Consent Order – COWSPCB 16-002 (Appendix J).

1.1 Site Description and Background

Investigations originally focused on an approximately 8,000 square-foot stormwater settling basin located on the Eversource Berlin Campus at 107 Selden Street in Berlin, Connecticut. The Site location is shown in Figure 1 – Site Locus Map. Geographic coordinates for the Site are:

Latitude/Longitude:	41° 38’ 58" North / 72° 43’ 30" West
UTM Coordinates:	Zone 18
	675,239.9 meters Northing
	4,574,883.6 meters Easting

Pre-remediation conditions are shown in Figure 2 and post-remediation conditions are shown in Figure 5. The Site is currently vacant and contains the structures and piping associated with the newly installed drainage system, as well as piping abandoned in place from the former drainage basin. The remediation eliminated the settling basin, and the area now slopes from a parking lot located to the west down to an unnamed stream to the east.

The location of the former settling basin and portions of surrounding areas were fenced off to isolate the area previously identified as being impacted by SEH conditions involving PCBs in shallow soil. However, because this SEH condition was permanently addressed during performance of the remediation, the fencing was subsequently removed. Grass pavers consisting of permeable plastic grid mat filled with sand and completed with grass turf were installed over a portion of the excavation to create an overflow parking lot for Eversource personnel. The area of the Site that is subject to the Use Restriction and will eventually be subject to an EUR is delineated by split rail fencing installed following completion of Site restoration activities (Figure 5).

To the north of the settling basin is an access road (Campus Access Drive), wetlands, and additional parking lots. As shown in Figure 4, remedial activities extended to include a portion of the access road but not into the wetlands. To the west is an asphalt-paved equipment storage and laydown area and a parking garage for the Eversource Berlin Campus. To the south of the settling basin is forested undeveloped land and to the east is an unnamed stream. The newly constructed drainage system, which discharges into the unnamed stream, was constructed as described in the RAP, with permits issued by the Town of Berlin Inland Wetlands and Watercourses Agency (IWWA) and Planning and Zoning Commission.

Prior to construction of the settling basin, the Site was utilized as a training area that may have used PCB oil-containing equipment. Surficial soils within this area may have been impacted with PCBs due to use or storage of this equipment. However, because the highest concentrations of PCBs identified during Site investigations were typically found beneath the surficial materials and variably within the soil column, the primary source for PCBs and other COC impacts is believed to be from previously impacted fill materials used during regrading of this area. Placement and compaction of this fill would have resulted in the "lack of pattern" observed in the distribution of PCBs.

The settling basin was subsequently constructed at the site and stormwater drainage pipes were installed from the asphalt-covered parking area located west of the basin. The parking area was used to store PCB-containing equipment and other materials, but no releases from storage operations were identified during Site investigations or the performance of remediation activities.

1.2 Remediation Areas

Following the discovery of soil containing PCBs >1 mg/kg, several environmental investigations were performed from 2010 to 2018 to assess Site soils. These investigations were summarized in the RAP and were used to determine the areas to be remediated. Other COC were identified in these investigations, including extractable petroleum hydrocarbons (ETPH), semi-volatile organic compounds (SVOCs), and metals in soils and groundwater at concentrations exceeding numerical criteria established in the CT DEEP RSRs. Soil impacted with these COC were addressed during the performance of the PCB remedial actions.

Three additional release areas requiring remediation were identified after remediation was initiated. These include:

1) The area where the new retention system (part of the replacement drainage system) was to be installed after the RAP was approved by EPA and prior to performing any construction at the site. Additional soil characterization was needed in this area because the original location of the retention basin, as indicated in the RAP, was determined to be unsuitable and needed to be relocated. A limited area of PCB impacts was identified at the southern extent of the planned excavation for the relocated retention system. Remediation was performed in this area to remove all PCB impacts >1 mg/kg, as it was located outside of the planned cap area. These areas are shown in Sampling Inset 4A in **Figure 4**.
2) An area of building debris was identified beneath the access drive during performance of remedial excavations. Some of these building materials were found to contain PCBs. A Notification of this previously unidentified condition was provided to EPA and CT DEEP and remedial actions for these materials were identified. This remediation area is shown in **Figure 4** in excavation areas E28 and E29.
3) An area beneath the northern section of buried building debris where soils containing PCBs ≥50 mg/kg was discovered. A notification of this previously unidentified condition was provided to EPA and CT DEEP, and remedial actions were determined following investigations to define the horizontal and vertical extent of the impacts. PCB-impacted soils were found to extend down to the weathered bedrock surface but not into competent bedrock. Remedial actions included the installation of sheet piles, dewatering, and removal of soil and weathered bedrock. The Notifications and Modification Requests associated with these previously unidentified conditions are provided in **Appendix A**. This remediation area is shown in **Figure 4** as excavation area E30.

1.3 Sensitive Area Receptors

The Site is located on the Eversource Berlin Campus, an approximately 111-acre parcel surrounded by residential and commercial properties. The closest residential property is located approximately 0.20 miles from the Site. Immediately west of the Site is an unnamed stream and wetlands.

A search of the CT DEEP Natural Diversity Database for endangered, threatened, special concern species, and significant natural communities was performed prior to the sampling associated with the Screening-Level Environmental Risk Assessment (SLERA). No special concerns for the Site were identified, with the closest critical habitat located approximately 1,700 feet south of the Site. The Site is not located within an Aquifer Protection Zone for a public water supply or a CT DEEP-designated coastal boundary area.

1.4 Geology

According to the "Bedrock Geological Map of Connecticut" (Rodgers, 1985), bedrock underlying the Site is identified as Portland Arkose, a reddish-brown to maroon micaceous sandstone and siltstone containing layers of red to black silty shale. Bedrock outcrops were not observed on Site, but bedrock was encountered at depths ranging from 28 to 30 feet below grade (ft bg) during excavation activities within the limits of the access road, as the bedrock surface elevation was not uniform. During excavation activities, the bedrock surface was scrapped with the excavator bucket to verify the bottom of excavation.

According to the "Surficial Materials Map of Connecticut" (Stone et al., 1992), the surficial geology underlying the Site consists of thin glacial till (generally less than 10 to 15 feet thick) including areas of bedrock outcrops. This till is characterized as being predominantly loose to moderately compact, generally sandy, but commonly stony.

Soils observed at the Site consist of reddish-brown silt with fine reddish-dark brown sand to 5 ft bg in the area surrounding the settling basin. Subsurface soil consists of reddish-dark brown silt with fine to coarse reddish-dark brown sand as depth increases. Traces of clay and gravel were present throughout the Site from 5 to 10 ft bg. Fragments of wood (timber and/or plywood) was encountered in certain borings.

Based on the observed Site soils, it is believed that much of the soil in the area of the settling basin was imported as fill prior to development of the area as a pole-training facility. The area was subsequently regraded for construction of the settling basin and drainage piping. Accordingly, much of the soil in the area of the settling basin is fill that has been subsequently disturbed.

1.5 Groundwater Classification

Groundwater beneath the Site is classified as GA by the CT DEEP, indicating that it is suitable for human consumption without treatment. The unnamed stream located approximately 70 feet southwest of the outlet from the settling basin is the closest surface water body at the Site. Based on previous site investigations, groundwater is generally observed in shallow overburden fill materials between approximately 6 and 18 ft bg. Groundwater flows in a south-southeasterly direction beneath the Site towards the unnamed stream.

1.6 Remedial Construction Activities

Information from previous Site investigations was used by Weston & Sampson to prepare the RAP and contractor remedial documents. These documents include plans and specifications prepared in September 2019 following EPA modifications and approval of the RAP.

Remedial construction activities were performed in the following order:

- Construction of the replacement drainage system and abandonment of the existing drainage basin;
- Excavation and removal of PCB-impacted soil ≥50 mg/kg;
- Excavation and removal of PCB-impacted soil >10 mg/kg;
- Removal of soil impacted by PCBs and other COC exceeding applicable remedial criteria;
- Excavation and on-Site consolidation of PCB-impacted soil ≤10 mg/kg;
- Site restoration with backfilling of excavation areas and compaction of clean backfill materials to restore excavation areas to proposed grades;
- Installation of Site fencing and grass pavers (a permeable plastic grid mat filled with sand and completed with grass turf) for an overflow parking area; and
- Performance of a post-remediation Site survey to document current site conditions and the location of installed structures.

Other post-remediation activities, including performance of post-remediation groundwater monitoring, completion of a SLERA for the unnamed stream following termination of discharges from the settling basin to the stream, and EUR filings will be documented in separate submittals when those activities have been completed.

A plan for post-remediation groundwater monitoring was submitted on July 9, 2021 and approved by the CT DEEP on July 27, 2021. A copy of the CT DEEP approval letter is provided in Appendix A. Monitoring wells have been installed and one quarterly round of groundwater monitoring has been completed. A Field Sampling Plan for the SLERA will be submitted to CT DEEP for review and comment.

2.0 DESCRIPTION OF CONSTRUCTION ACTIVITIES

Eversource selected Strategic Environmental Services, Inc. (SES) of Glastonbury, Connecticut, as the Site Contractor to execute the site remedial activities as described in the RAP and EPA Approval. Weston & Sampson performed remedial observation and verification sampling throughout remedial activities. PCB-related remedial activities began in December 2019 and were completed on September 7, 2021. The following sections detail the completed remedial activities. Progress photographs of the Site remediation and restoration are provided in Appendix B.

2.1 Permitting, Mobilization and Site Preparation

Prior to mobilization to the Site, permits were obtained from the Town of Berlin to perform the remediation. A special permit for the excavation of soil and backfilling of the Site with clean materials, as well as for construction of the new drainage system, was obtained from the Planning and Zoning Commission. An additional permit was obtained from the IWWA for sediment and erosion controls, and for the construction of a new wetland area to replace removed/impacted wetlands that had formed within the settling basin. Work was performed in accordance with the requirements of those permits.

Site mobilization and preparation occurred in November 2019. Site mobilization included the installation of temporary fencing to restrict access to the Site, signage, stormwater pollution prevention controls, erosion controls, a decontamination pad, and an anti-tracking pad.

Erosion and sedimentation controls were deployed around designated work areas and the Site perimeter. Perimeter erosion and sedimentation controls included silt fence and straw wattles. Catch basin protection included inlet filter inserts. The erosion and sedimentation controls were designed and installed in accordance with the 2002 Connecticut Guidelines for Erosion and Sediment Control (DEP Bulletin 34) and permit conditions as required by the Town of Berlin IWWA. The controls were inspected and maintained by SES throughout construction. Some controls were removed following final stabilization of disturbed surfaces and demobilization of remedial equipment.

2.2 PCB Remediation

Soils containing PCBs >1 mg/kg were found during initial investigation activities within the settling basin area encompassing approximately 58,700 square feet (1.35 acres) from the ground surface to varying depths up to 9 ft bg. As discussed previously, two additional release areas were identified during remediation beneath the access drive abutting the remediation area. The EPA and CT DEEP were notified of these previously unidentified conditions and remediation was performed, as approved by the agencies.

Soils were separated into three categories, soils containing PCBs (1) ≥50 mg/kg, (2) >10 mg/kg and <50 mg/kg, and (3) >1 mg/kg and ≤10 mg/kg. Soils containing PCBs ≥50 mg/kg were excavated first and disposed of separately from soils containing PCBs >10 mg/kg and <50 mg/kg. Soils containing PCBs >1 mg/kg and ≤10 mg/kg were consolidated and capped on-Site or transported offsite for disposal. The extent of the capped area was delineated by fencing, subject to filing of a Use Restriction and will be recorded with an Industrial/Commercial EUR that restricts excavation. Concrete encountered within excavations was disposed based on the presumption that it was impacted by the same concentration of PCBs as the soil from the excavation (e.g., concrete encountered within a >10 mg/kg to <50 mg/kg PCB-soil excavation was disposed of at an assumed concentration of >10 mg/kg to <50 mg/kg). Waste manifests for all PCB-impacted materials removed from the Site for off-site disposal are provided in Appendix D.

Areas where initial verification samples were found to exceed applicable remedial standards were subsequently re-excavated and removed from the Site. Table 1 presents the analytical results for only final PCB-verification samples. Figure 4 shows the sample locations for only final verification. Laboratory analytical data reports are attached in Appendix C.

2.2.1 PCB-Containing Materials ≥50 mg/kg

Three separate remedial excavations for soils containing PCBs ≥50 mg/kg were planned in the RAP. Three additional remedial areas were identified during remediation, as discussed in Section 1.2. The final surveyed extent of the excavations is shown in Figure 4. The excavation areas for PCBs ≥50 mg/kg were designated as A1, E1, E3, E4, E28, E29 and E30. The A1 excavation was performed in May 2020 and the E1, E3, and E4 excavations were performed during September 2020. Excavations E28, E29, and E30 were performed between September 2020 and March 2021. The remedial excavation in each area is summarized below:

- A1 – This cell was added as part of remedial activities associated with construction of the retention basin (shown in Sample Inset 4A in Figure 4). The excavation was completed to the as-planned final excavation depth of 7 ft bg. Two of the 16 initial verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work and additional verification samples were collected (CA1A, CA1B, and CA1C). Final soil sample verification results were non-detect or reported below 1 mg/kg.
- E1 – This cell was excavated to the as-planned final depth of 4 ft bg. Three of the 39 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work and additional verification samples were collected. Final verification soil samples were not detected or reported ≤10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E3 – This large cell was excavated to the as-planned final depth of 6 ft bg. Twenty-one of 177 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work and additional verification samples were collected. Final verification soil samples were not detected or reported ≤10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E4 – This cell was excavated to the as-planned final depth of 7 ft bg. Eleven of 68 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification soil samples were not detected or reported below 10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E28, E29, and E30 – Located within an area originally planned for excavations to remediate soil with PCBs <10 mg/kg, debris impacted with PCBs (consisting of brick, black viscous (non-flowing) tar material, gray ash, metal, concrete masonry units, fragments of timber and plywood, ceramic tile, felt material and charred materials) was encountered in the excavations beneath the access road at E28 and E29 at depths up to 4 to 5 ft bg and at concentrations greater than 50 mg/kg. Following the removal of soil containing PCBs ≥50 mg/kg, further excavations within E28 and E29 were completed until all verification results were ≤10 mg/kg except for the northern sidewalls of both excavations and the eastern sidewall of E28. The concentration of PCBs in samples collected from the northern sidewalls and from the eastern sidewall of E28 were reported at <1 mg/kg.

  Following removal of the debris, underlying soil impacted with PCBs ≥50 mg/kg was identified at E30. Additional investigation activities were performed including EPA approved in-situ Subpart O soil boring samples, and remedial actions were designed. The procedures for removal of the debris and additional PCB-impacted soil were provided to EPA and CT

DEEP as presented in Appendix A, with the final remedial actions performed according to those plans.

Remediation of E30 (excavation extent depicted on Figure 4) included removal of soils containing PCBs ≥50 mg/kg within a footprint of approximately 36 by 36 feet that was excavated to the bedrock surface at depths ranging from 28 to 30 ft bg. Deeper excavation at E30 required the installation of sheet piles driven into weathered bedrock, groundwater dewatering and treatment of dewatered effluent via a groundwater treatment system that subsequently discharged to local sanitary sewer under an approved CT DEEP general permit. To allow for the installation of the sheet piles into soil containing ≤10 mg/kg total PCBs, two excavations (Sheet Pile Excavation A and Sheet Pile Excavation B) were performed prior to installing the sheet piles to depths ranging from 11 to 16 ft bg. Verification samples were collected from both excavations and the analytical results indicated PCBs in remaining soils were ≤ 10 mg/kg. No post excavation verification samples were collected within E30 as previously collected Subpart O in-situ data (see Appendix A) was used to verify excavation extents and the excavation was completed into weathered bedrock, where no PCBs were detected above 10 mg/kg.

Verification samples for the A-cell excavation were collected until all sample results were ≤1 mg/kg total PCBs. Verification samples for E1, E3, and E4 excavations were collected until all results were <50 mg/kg, with subsequent remediation performed for soil with PCBs >10 mg/kg and <50 mg/kg. For some of the cells this required that the excavations be extended horizontally and vertically. Following removal of soils containing PCBs ≥50 mg/kg, additional excavation was performed to remove soils containing PCBs >1 mg/kg but <50 mg/kg (see Section 2.2.2).

Soil from these excavations was live-loaded into tri-axle or trailer dump trucks for delivery to railcars in New Haven, Connecticut. The soils were then transported to the Chemical Waste Management landfill facility in Emelle, Alabama. A total of 3,578.07 tons of soils containing PCBs ≥50 mg/kg were disposed from the Site.

2.2.2 PCB-Containing Materials >10 mg/kg and <50 mg/kg

Nine separate excavations for soils containing PCBs >10 mg/kg but <50 mg/kg were planned in the RAP. The final surveyed extent of the excavations is shown in Figure 4. These areas were designated as B1, B2, E6, E9, E11, E12, E14, E15 and E20. Excavation began in April 2020 and concluded in July 2020. The remedial excavation in each area is summarized below:

- B1 – This cell was added as part of remedial construction activities and was completed to the as-planned final excavation depth of 14 ft bg. Two of the 23 initial verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work identified as area B1A. Final verification sample results were non-detect or reported below 1 mg/kg.
- B2 – This excavation was added as part of remedial construction activities and was planned to be performed to a total depth of 7 ft bg. The final excavation depth was between 7 and 8 ft bg. Two of the13 initial verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work, identified as areas CB2A and CB2B. Final verification sample results were non-detect or reported below 1 mg/kg.
- E6 – This cell was excavated to the as-planned final depth of 6 ft bg. Seven of 95 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤ 10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.

- E9 – This cell was excavated to the as-planned final depth of 2 ft bg. All verification sample results were <10 mg/kg and the remaining soils were consolidated and capped on-Site.
- E11 – Originally planned to be performed to a total depth of 5 ft bg, the final excavation depth of this cell was 6 ft bg. Eleven of 92 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤ 10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E12 – This cell was excavated to the as-planned final depth of 3 to 6 ft bg. One of 106 initial verification sample results was >10 mg/kg. This area was removed during subsequent excavation work. Final verification sample results were not detected or reported ≤ 10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E14 – Originally planned to be performed to a total depth of 2 ft bg, the final excavation depth of this cell ranged from 2 to 3.5 ft bg. Ten of 125 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E15 – This cell was excavated to the as-planned final depth of 7 ft bg. Six of 91 initial verification sample results were 10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E20 – This cell was excavated to the as-planned final depth of 4 ft bg. All verification sample results were <10 mg/kg. These soils were consolidated and capped on-Site.

Verification samples for B-cell excavations were collected until all results for PCBs in soil were ≤1 mg/kg. Verification samples for E-cell excavations were collected until all results were ≤10 mg/kg. For the B-cell and E-cell excavations, additional excavations were performed until the PCB-remedial goal was achieved. Verification sample locations are shown in Figure 4 and final verification sample results are presented in Table 1. Laboratory analytical data reports are attached in Appendix C.

Soils were loaded into trucks for off-site disposal at the Sunny Farms Landfill in Fostoria, Ohio. A total of 7,050.74 tons of soils were disposed from the Site. Handling and disposal of concrete encountered during these excavations is described in Section 2.3.2.

2.2.3 PCB-Containing Materials >1 mg/kg and ≤10 mg/kg

Twenty-three separate excavations for soils with total PCB concentrations >1 mg/kg but ≤10 mg/kg were completed. The final surveyed extent of these areas is shown in Figure 4 and were designated as C1, C2, C3, C4, C5, C6, C7, E5, E7, E8, E10, E13, E16, E17, E18, E19, E21, E22, E23, E24, E25. E26 and E27. Excavation began in July 2020 and concluded in July 2021. The remedial excavation in each area is summarized below:

- C1 – This cell was added as part of remedial construction activities with a planned depth of 7 ft bg. The final excavation depth was between 7 and 8 ft bg. Four of 51 initial verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work, identified as C1A and C1B. For C1, C1A, and C1B, 49 of 59 verification sample results were non-detect for PCBs, with the remainder detected <1 mg/kg.
- C2 – This cell was added as part of remedial construction activities with a planned excavation depth of 14 ft bg. The final excavation depth was between 14 and 15 ft bg. Two of 19 initial

verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work, identified as C2A and C2B. For C2, C2A, and C2B, 24 of 30 verification sample results were non-detect for PCBs, with the remainder detected <1 mg/kg.

- C3 – This cell was added as part of remedial construction activities and was excavated to the planned final depth of 14 ft bg. All verification sample results were non-detect for PCBs.
- C4 – This cell was added as part of remedial construction activities with a planned excavated depth of 14 . The final excavation depth was between 14 and 15 ft bg. Two of 24 initial verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work, identified as C4A and C4B. For C4, C4A, and C4B, 32 of 39 verification sample results were non-detect for PCBs with the remainder detected <1 mg/kg.
- C5 – This cell was added as part of remedial construction activities and was excavated to the planned final depth of 14 ft bg. All verification sample results were non-detect for PCBs.
- C6 – This cell was added as part of remedial construction activities with a planned excavated depth of 10 ft bg. The final excavation depth was between 10 and 11 ft bg. Seven of 28 initial verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work identified as C6B through C6K. For C6 and C6B through C6K, 61 of 89 verification sample results were non-detect for PCBs, with the remainder detected <1 mg/kg.
- C7 – This cell was added as part of remedial construction activities and was excavated to the as-planned final depth of 5 to of 15 ft bg. Three of 24 initial verification sample results were >1 mg/kg. These areas were removed during subsequent excavation work identified as C7A through C7D. For C7 and C7A through C7D, 34 of 49 verification sample results were non-detect for PCBs, with the remainder detected <1 mg/kg.
- E5 – This cell was excavated to the as-planned final depth of 2 ft bg. Three of 26 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤10 mg/kg. Soils with PCB-sample results ≤10 mg/kg were consolidated and capped on-Site.
- E7 – This cell was excavated to the as-planned final depth of 2 ft bg. One of 21 initial verification sample results was >10 mg/kg. This area was removed during subsequent excavation work. Final verification sample results were not detected or reported ≤ 10 mg/kg. Soils with PCB-sample results ≤10 mg/kg were consolidated and capped on-Site.
- E8 – This cell was excavated to the as-planned final depth of 2 ft bg. Five of 30 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤ 10 mg/kg. Soils with PCB-sample results ≤10 mg/kg were consolidated and capped on-Site.
- E10 – Originally planned to be performed to a total depth of 2 ft bg, the final excavation depth of this cell was 2 to 4 ft bg. Five of 98 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤ 10 mg/kg. Soils with PCB-sample results ≤10 mg/kg were consolidated and capped on-Site.
- E13 – This cell was excavated to the as-planned final depth of 2 ft bg. One of 61 initial verification sample results were >10 mg/kg. This area was removed during subsequent excavation work. Final verification soil sample results were not detected or reported ≤ 10 mg/kg. Soils with PCB-sample results ≤10 mg/kg were consolidated and capped on-Site.
- E16 – Originally planned to be performed to a total depth of 2 ft bg, the final excavation depth for this cell was from 2 to 4 ft bg. All verification sample results were <10 mg/kg and these soils were consolidated and capped on-Site.

- E17 – This cell was excavated to a final depth of 4 to 6 fbg. Deeper excavations at portions of E17, including the proposed 9-foot excavation depth located adjacent to the concrete box culvert and stream (shown in Figure 3) was originally planned under the RAP. Portions of E17 were initially outside of the proposed EUR boundary, where soil was required to be cleanup up to ≤1 mg/kg. The EUR boundary was later modified to encompass E17 which changed the cleanup goal to ≤10 mg/kg beneath a 4-foot thick, clean cap. This resulted in a shallower excavation to meet the higher cleanup standard. Four of 132 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤10 mg/kg, except for eastern sidewall samples (those samples contained PCBs <1 mg/kg). Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E18 – This cell was excavated to the as-planned final depth of 2 ft bg. All verification sample results were ≤10 mg/kg except for the eastern sidewall samples (those samples contained PCBs <1 mg/kg). These soils were consolidated and capped on-Site.
- E19 – This cell was excavated to the as-planned final depth of 2 ft bg. All verification sample results were <10 mg/kg except for the eastern and southern sidewalls (those samples contained PCBs <1 mg/kg). These soils were consolidated and capped on-Site.
- E21 – Originally planned to be excavated to a total depth of 6 ft bg, the final excavation depth of this cell was 6 to 7 ft bg. Six of 45 initial verification sample results were >10 mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤10 mg/kg, except for the northern and eastern sidewalls. Samples collected from the northern and eastern sidewalls contained PCBs <1 mg/kg.
- E22 – Originally planned to be excavated to a total depth of 2 ft bg, the final excavation depth of this cell was 5 ft bg. All verification sample results were <10 mg/kg and limited removal actions were completed during subsequent excavation work to allow for the establishment of a 4-foot thick, clean cap.
- E23 – This cell was excavated to the as-planned final depth of 4 ft bg. All verification sample results were <10 mg/kg and limited removal actions were completed during subsequent excavation work to allow for the establishment of a 4-foot thick, clean cap.
- E24 – Originally planned to be excavated to a total depth of 2 ft bg, the final excavation depth of this cell was 4 ft bg. Seventeen of 79 initial verification sample results were 10 >mg/kg. These areas were removed during subsequent excavation work. Final verification sample results were not detected or reported ≤ 10 mg/kg. Soils with sample results ≤10 mg/kg were consolidated and capped on-Site.
- E25 – Originally planned to be excavated to a total depth of 2 ft bg, the final excavation depth of this cell was 4 to 5 ft bg. All verification sample results except for the northern sidewall were <10 mg/kg. All results for samples collected from the northern sidewall of the excavation were reported at concentrations <1 mg/kg.
- E26 – Originally planned to be excavated to a total depth of 2 ft bg, the final excavation depth of this cell was from 2 to 2.5 ft bg. All verification sample results were <1 mg/kg.
- E27 – This cell was excavated to the as-planned final depth of 5 ft bg. All verification sample results except for the northern sidewall were <10 mg/kg. All results for samples collected from the northern sidewall of the excavation were reported at concentrations <1 mg/kg.
- SPLP PCB Analysis – To screen soil quality to the CT DEEP default total PCB Pollutant Mobility Criteria (0.5 micrograms per liter (ug/L)) for a GA Groundwater Classified Area (GA PMC), 67 soil samples were collected from soil remaining in place containing PCBs ≤10

mg/kg. These samples were analyzed for leachable PCBs using SPLP testing. SPLP PCBs were detected slightly above the 0.5 ug/L criterion in 17 of the 67 soil samples. The remaining SPLP PCB results were non-detect (<0.5 ug/L). Compliance with the GA PMC will be demonstrated through groundwater monitoring in accordance with the RSRs (Section 22a-133k-2(c)(5)(C)) as follows:

- Soil polluted with PCBs within the remediation area is not required to be remediated to the applicable PMC, provided that at such release area:
  - (i) Eighty (80) percent or more of the mass of the substances remaining at the release area has been subject to infiltration;
  - (ii) Infiltration was not obstructed by anthropogenic features, for at least five (5) years;
  - (iii) Groundwater monitoring complies with the requirements of section 22a-133k-3(h)(1) of the RSRs; and
  - (iv) The laboratory analytical results for all groundwater sample events collected as specified in section 22a-133k-3(h)(3) of the RSRs for a GA groundwater classified area are equal to or less than the groundwater protection criteria (GWPC) and the surface water protection criteria (SWPC).

The site meets requirements (i) and (ii) above. In August 2021, seven groundwater-monitoring wells identified as MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-D and MW-BR (a bedrock well) were installed within the PCB-remediation area. On August 25 and 26, 2021, and November 16, 2021, the first and second quarters of compliance groundwater monitoring was completed in accordance with the CT DEEP approved (approved on July 27, 2021) Post Remediation Groundwater Plan, dated July 9, 2021, prepared by Weston & Sampson.

The groundwater-analytical results for both sampling events indicated that PCBs were not detected in groundwater at concentrations above the reporting limit, ranging from 0.27 to 0.5 ug/L or the GWPC and SWPC of 0.5 ug/L. Two additional quarterly-monitoring events will be conducted in February 2022 and May 2022 to meet requirement (iii) above. It is anticipated that the groundwater results from the two remaining quarterly events will be consistent with the August and November 2021 evens, confirming that PCBs are not present in groundwater within the remediation area and therefore requirement (iv) above would be met. This would result in compliance with the GA PMC, such that further remediation of SPLP PCBs above 0.5 ug/L would not be required. Following completion of compliance-groundwater monitoring a report will be prepared and submitted to the CT DEEP under separate cover.

Verification samples for the C-cells were collected until all total PCB results were ≤1 mg/kg. For the E-cell excavations, additional excavation was performed until the PCB remedial goal was achieved. Verification sample locations are shown in **Figure 4** and final verification sample results are presented in **Table 1**. Laboratory analytical data reports are attached in **Appendix C**.

No material was stockpiled on-Site during excavation activities. Soil was managed within the excavation and graded to allow placement of a 4-foot thick, clean soil cap above remaining materials containing PCBs ≤10 mg/kg.

2.2.4 PCB-Containing Concrete Wastes

Two concrete stormwater drainage pipes and structures (one at the southwestern portion of the basin and one at the northwestern portion of the basin) were addressed during remediation activities.

The southwestern concrete drainage pipes and associated structures (i.e., catch basins) that formerly discharged into the basin were encountered within the E-cell PCB-excavation areas and were removed (see Figure 4). This concrete was segregated from PCB-impacted soils and was sized (broken into smaller pieces) as needed prior to removal and transportation to the waste receiving facility. The concrete was disposed at the facility with its corresponding excavated soils. A total of 108.7 tons of waste concrete was disposed in this manner. The northwestern concrete drainage piping that formerly discharged into the basin from the parking lot, west of the basin was filled with flowable fill and abandoned in place. (see Figure 4).

Prior to remediation, sampling of the catch basins connected to the drainage pipes and the concrete piping that was proposed to be abandoned in place during remediation was conducted as described in the April 30, 2019, email "Response to EPA verbal comments of April 18, 2019" in January 2020. PCBs were not detected in these concrete samples. Further details of the concrete sampling are presented in Appendix A (February 12, 2020, submittal to EPA – Required Submittal under PCB Cleanup and Risk-Based Disposal Approval under 40 CFR 761.61(a) and (c)).

The concrete box culvert that runs under the access road depicted on Figure 4 was not encountered during excavation activities. The PCB-verification sidewall-soil sample results from the eastern-most extent of excavations E17, E28 and E21, located closest to the box culvert were either not detected or reported at concentrations <1 mg/kg.

2.2.5 Other Contaminants of Concern

Excavation of soils containing other COC (i.e., ETPH, PAHs, and metals) greater than CT DEEP RSR Industrial/Commercial Direct Exposure Criteria (I/C DEC) and GA PMC were planned in the RAP. The final surveyed extent of these excavations is shown in Figure 4 and described below:

- D1 – This cell was added as part of remedial construction activities for PAHs and was excavated to the as-planned final depth of 4 ft bg. All verification sample results were non-detect for PAHs.
- E8 – This cell was excavated to the as-planned final depth of 2 ft bg, for remediation of selected metals. All verification samples contained barium and cadmium at concentrations below the CT DEEP RSR criteria. The remaining metals results were non-detect.
- E11 – Originally planned to be excavated to a total depth of 5 ft bg for remediation of arsenic, the final excavation depth of this cell was 6 ft bg. All verification samples contained arsenic at concentrations below the CT DEEP RSR criteria.
- E13 – This cell was excavated to the as-planned final depth pf 2 ft bg for remediation of silver. Two of 6 verification samples contained silver at concentrations below the CT DEEP RSR criteria. The remaining silver results were non-detect.
- E14 – Originally planned to be excavated to a total depth of 2 ft bg for remediation of silver and PAHs, the final excavation depth of this cell was from 2 to 3.5 ft bg. Final verification samples contained PAHs at concentrations below the RSR I/C DEC and GB PMC. One of four of the final verification samples analyzed for silver, contained silver at a concentration below the CT DEEP RSR criteria. The remaining silver results were non-detect.
- E17 – This cell was excavated to a final depth of 4-6 ft bg for remediation of PAHs. Four of 7 verification samples contained PAHs at concentrations below the CT DEEP RSR criteria. The remaining PAH results were non-detect.
- E23 – This cell was excavated to the as-planned final depth of 4 ft bg for remediation of PAHs. Four of 5 verification samples contained PAHs at concentrations below the CT DEEP RSR criteria. The remaining PAH results were non-detect.

Excavations were conducted until all verification sample results were below the I/C DEC and GA PMC. Verification sample locations are shown in Figure 4 and final verification sample results are presented in Table 2. Laboratory analytical data reports are provided in Appendix C. Soils excavated for remediation of other COC were removed and disposed offsite with the PCB-impacted soil. The volume of COC-impacted soils removed was not accounted for separately from the PCB-impact soil.

2.3 Verification Sample Analysis

As described in the Approved RAP, Verification samples were collected in accordance with 40 CFR Part 761Subpart O and analyzed for PCBs as Aroclors with Soxhlet extraction by EPA Methods 8082 and 3540 at Phoenix Environmental Laboratories in Manchester, Connecticut (a Connecticut Department of Public Health certified laboratory). Samples were collected at discrete sample locations from the upper three inches of soil when possible. However, for deeper excavations below the groundwater table, samples were collected using an excavator bucket as these excavations could not be entered safely.

Quality Control and Quality Assurance (QA/QC) samples were analyzed by the laboratory and assessed for compliance by Weston & Sampson. Analytical data was generated following CT DEEP Reasonable Confidence Protocols (RCPs). All samples were submitted to the laboratory using standard chain of custody procedures. The laboratory case narratives and RCP check lists for each analytical report package were reviewed and no issues were found that would be expected to invalidate any of the confirmation data.

2.4 Grading of Remaining Impacted Soils and Backfilling

Soils impacted with non-PCB compounds in excess of applicable RSR criteria were delineated during the Site investigation and removed during remediation. Soils impacted with PCB compounds >1 mg/kg and ≤10 mg/kg were graded and covered with clean fill to render them “inaccessible” (i.e., buried 4 ft bg), as stipulated in the RSRs.

Clean backfill materials were used to establish final post-remediation grades. Backfill materials were determined to be “clean fill” (i.e., free of impacts) based upon review of analytical data for samples obtained from the backfill material (see Appendix G). Crushed stone was also used to backfill excavations and a letter from the suppling rock quarry indicates that the stone was generated by quarrying virgin rock and then sizing it according to the design specification (see Appendix G).

Clean backfill materials were placed then compacted in place. Compaction testing data is attached in Appendix G.

2.5 Significant Environmental Hazard Abatement

The original Significant Environmental Hazard (SEH) filing (September 2012) and CT DEEP acknowledgment are attached in Appendix H. In 2012, a chain-link fence was erected along the top of the bank around the entire settling basin and warning signage was posted in prominent locations along the fencing that identified the SEH Condition. In July 2014, when additional Site investigations changed the extent of the identified SEH Condition, the extent of the fencing was temporarily adjusted to enclose this area using snow fencing with warning signs. In September 2014 the temporary snow fencing was replaced with permanent chain link fence. In May 2015, additional sampling identified another SEH Condition in a densely wooded/vegetated area outside of the permanently fenced area. Eversource erected steel stake snow fencing with warning signs to prevent unauthorized access to this area. In November 2019, a temporary perimeter fence was installed during mobilization by the remedial contractor to maintain SEH mitigation measures during remediation.

The SEH Condition was remediated by the excavation and disposal of soils containing PCBs>10 mg/kg within the top 4 feet of final grade, as shown in **Figures 4 and 5**. Accordingly, the SEH Condition was fully mitigated by the PCB removal activities during remediation.

2.6 Replacement Drainage System

The settling basin was abandoned in May 2020 following construction of the new drainage system. Between February and May 2020, the replacement drainage system was constructed outside of the remediation area except for the remedial excavations completed at the southeastern extent, located within and immediately adjacent to the bituminous parking lot. Soil containing PCBs at these locations, depicted on Figures 3 and Figure 4 (Inset A and B) were remediated to <1 ppm total PCBs prior to installation of the replacement drainage system. The system includes a hydrodynamic separator for sediment removal and appropriate piping and underground detention chambers to meter peak discharge and equalize flow during rain events. The location of the new drainage system is shown on the as-built drawing provided in **Appendix** I.

2.7 Dust Control Activities

Dust monitoring for total particulate emissions and fugitive dust within work areas and at the Site perimeter was implemented during soil excavation and handling activities to monitor potential exposures to on- and off-site receptors during remediation. Monitoring was conducted continuously using real-time measurement equipment, and the results were reviewed by Weston & Sampson and SES to evaluate dust control measures. Dust controls included wet spraying during dry or windy conditions. Wet spraying was deployed to reduce fugitive dust emissions and meet applicable National Ambient Air Quality Standards (NAAQS) for particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10).

A Dust Action Level of 150 micrograms per cubic meter ($\mu g/m^3$) was established for the project to maintain 24-hour averaged PM10 concentrations below 150 $\mu g/m^3$in accordance with the National (40 CFR 50.6) and Connecticut Ambient Air Quality Standard (RCSA Section 22a-174-24(e)). Dust monitoring occurred on all non-rainy active workdays. The dust monitoring station was placed generally downwind of Site activities near the Site perimeter. The dust monitoring continuously logged instantaneous concentrations, 15-minute time-weighted averages (TWAs), and a TWA for the entire workday. No exceedances of the 15-minute TWA and TWA for the entire workday were recorded. Dust monitoring data can be found in **Appendix E**.

2.8 Construction Dewatering

Construction dewatering was required due to rain events and because some deep soil removal activities were performed below the water table. SES prepared dewatering plans prior to mobilization, and the dewatering system was operational by January 2021. The dewatering system consisted of a 21,000-gallon frac tank, a bag filtration system consisting of two bag filters in parallel, two liquid-phase activated carbon vessels in series, and a 21,000-gallon weir frac tank. Treated water from the weir frac tank was discharged into a sanitary sewer at rates permitted by the Mattabassett District Water Pollution Control Facility (MDWPCF). A total of 140,000 gallons of treated water were discharged over the course of the project.

Re-useable dewatering system equipment was emptied of sediments (first tank prior to filter system only) and the sediments were disposed as ≥50 mg/kg PCB-remediation waste. All equipment was then double wash/rinsed according to the procedures specified in 40 CFR Part 761 Subpart S. Following decontamination, wipe samples were collected from within the dewatering system for laboratory analysis. The analytical data are provided in **Appendix F**.

2.9 Site Restoration

The site was restored as required by the permits obtained from the Town of Berlin and as described in the RAP and EPA Approval. In areas where soils containing PCBs >1 mg/kg remained in the subsurface, a geotextile marker layer was installed over the impacted soil and backfilled to render the soils inaccessible. In areas restored with grass surface cover, the minimum thickness of clean backfill materials was four feet. In areas restored with a pavement surface, the minimum thickness of clean backfill material was four feet.

2.10 Use Restriction Filing

Attached in Appendix I are:

- A copy of a map, filed in accordance with State law, showing the notation on the deed to the property that will in perpetuity notify any potential purchaser of the property:
  - That the land has been used for PCB remediation waste disposal and is restricted in use.
  - Of the existence of the fence and cap and the requirement to maintain the fence and cap.
  - The applicable cleanup levels left at the site (i.e., ≤10 mg/kg), inside the fence constructed around the perimeter and under the cap.
- A certification with the wording as defined in §761.3, signed by the owner, that they have recorded the notation.

3.0 SUMMARY AND CONCLUSIONS

The information, findings and conclusions presented by Weston & Sampson in this RAR are summarized below:

- The majority of remediation activities to address PCBs and other COC were conducted at the Site between May 2020 and May 2021. The remediation was completed on September 7, 2021, when fencing was installed to delineate the area where PCBs ≤10 mg/kg but >1 mg/kg in soil were consolidated beneath a cap.
- Sediment and erosion controls were installed, inspected, and maintained throughout the remediation activities, as required in the IWWA permit obtained from the Town of Berlin.
- Excavation areas were surveyed and marked in the field as indicated on the RAP drawings. Excavation limits were extended if verification sample results indicated further excavation was warranted. Excavation was terminated following the receipt of verification sample results indicating that remedial goals had been achieved.
- The settling basin was abandoned in May 2020 following construction of the new drainage system. Between February and May 2020, the replacement drainage system was constructed outside of the remedial excavation areas. The system includes a hydrodynamic separator for sediment removal and appropriate piping and underground detention chambers to meter peak discharge and equalize flow during rain events. Replacement wetlands were constructed, as required under the IWWA permit obtained from the Town of Berlin.
- All soils containing total PCBs >10 mg/kg were removed from the Site and disposed at a permitted off-Site facility. Debris consisting of brick, black viscous (non-flowing) tar material, gray ash, metal, concrete masonry units, fragments of timber and plywood, ceramic tile, felt material and charred materials that was encountered in the excavations completed beneath the access road were also removed and disposed. A summary of offsite soil disposal is provided below:

Material	Total Tonnage	Receiving Facility
PCB remediation waste ≥50 mg/kg	3,578.07	Chemical Waste Management Landfill, Emelle, AL
PCB remediation waste >10 mg/kg but <50 mg/kg	7,050.74	Sunny Farms Landfill, Fostoria, OH

- The removal of PCB-impacted soil also included the excavation and offsite disposal of Site soils impacted with non-PCB COC including ETPH, PAHs and select metals at concentrations above applicable CT DEEP RSR criteria.
- Remaining Site soils impacted with PCBs at concentrations ≤10 mg/kg were consolidated within excavations and capped on-Site.
- Concrete in contact with soils that were excavated for disposal were disposed with that soil, including the headwall, catch basins and drainage pipe that conveyed stormwater from the former settling basin to the unnamed stream. Remaining concrete piping left in place were tested (as described in Weston & Sampson EPA submittal, dated February 12, 2020, presented in Appendix A), determined not to be PCB remediation waste, and abandoned in place.

- After PCB-impacted soils were consolidated onsite, remaining excavation areas were backfilled with clean material and compacted. For areas restored with turf, the minimum thickness of clean backfill was 4 feet and included 6-inches of clean topsoil to support the establishment of grass. For areas restored with pavement, the minimum thickness of clean backfill materials placed beneath a minimum of 3 inches of pavement was 4 feet.
- Dust control measures were employed at the Site. Continuous dust monitoring indicated that respirable dust concentrations were maintained at concentrations below 150 µg/m3, except on six occasions when instantaneous but not sustained readings exceeded 150 ug/m3, as described in the RAP and required by the EPA Approval.
- Site dewatering was performed with approximately 140,000 gallons of dewatering effluent being treated and discharged to the MDWPCF sanitary sewer under a CT DEEP General Permit. No violations were identified during sampling.
- The areas where PCB concentrations in surficial soil (0 to 2 ft bg) triggered a reportable SEH Condition were fully remediated. Accordingly, no SEH conditions remain at the Site. Eversource will submit this RAR to the CT DEEP with a request to revise the state SEH database to indicate that the Condition has been permanently addressed.
- The cost for performing the remediation as described in the RAP, EPA Approval, and approved modifications was approximately $4.3 million. These costs include invoiced amounts from 1) the remedial contractor who performed the work, 2) Weston & Sampson for observation of remedial actions and for preparation of modification requests and other submittals during remediation, and 3) the analytical laboratory for analysis of verification samples. Costs are not included for investigation activities performed prior to the remediation or for post-remediation tasks (e.g., groundwater monitoring).

In conclusion, the Site remediation was performed in conformance with the RAP, the EPA Approval, modification requests that were submitted to EPA and CT DEEP, and the Consent Order issued by CT DEEP. Remedial goals for PCBs and COC in Site soil were achieved.

Post-remediation groundwater monitoring, as required by the Consent Order and the RSRs, is ongoing. A post-remediation groundwater-monitoring plan was submitted to the CT DEEP on July 9, 2021 and approved by the CTDEEP on July 27, 2021. Monitoring wells have been installed, developed, and the first quarter of groundwater sampling was completed in August 2021. A post-remediation groundwater-monitoring report will be submitted to the CT DEEP after completion of four quarters of groundwater monitoring.

In 2015, a SLERA was performed for sediments and surface water in the unnamed stream and no excess risk was identified. The CT DEEP agreed with this conclusion and indicated that no further action was required. However, discharge of stormwater from the settling basin to the unnamed stream could not be terminated in 2015 without the installation of a replacement drainage system. Therefore, releases to the stream may have occurred after the SLERA was completed. The field sampling plan for the 2015 SLERA will be updated, and the sampling repeated so that current risk may be assessed. The results from that sampling and an evaluation of potential ecological risk will then be submitted to the CT DEEP.

4.0 LIMITATIONS

This Remedial Action Report was prepared for the exclusive use of Eversource for submittal to the EPA and the CT DEEP. The findings provided by Weston & Sampson in this report are based solely on the information reported in this document. Future investigations, and/or information that was not available to Weston & Sampson at the time of the remediation, may result in a modification of the findings stated in this report.

Should additional information become available concerning this Site or neighboring properties that could directly impact the Site in the future, that information should be made available to Weston & Sampson for review so that, if necessary, conclusions presented in this report may be modified. The conclusions of this report are based on Site conditions observed by Weston & Sampson personnel at the time of the investigation and remediation, information provided by Eversource, information provided by the remedial contractor, and samples collected and analyzed on the date shown or stated in this report. This report has been prepared in accordance with generally accepted engineering and geological practices. No other warranty, express or implied, is made.

FIGURES

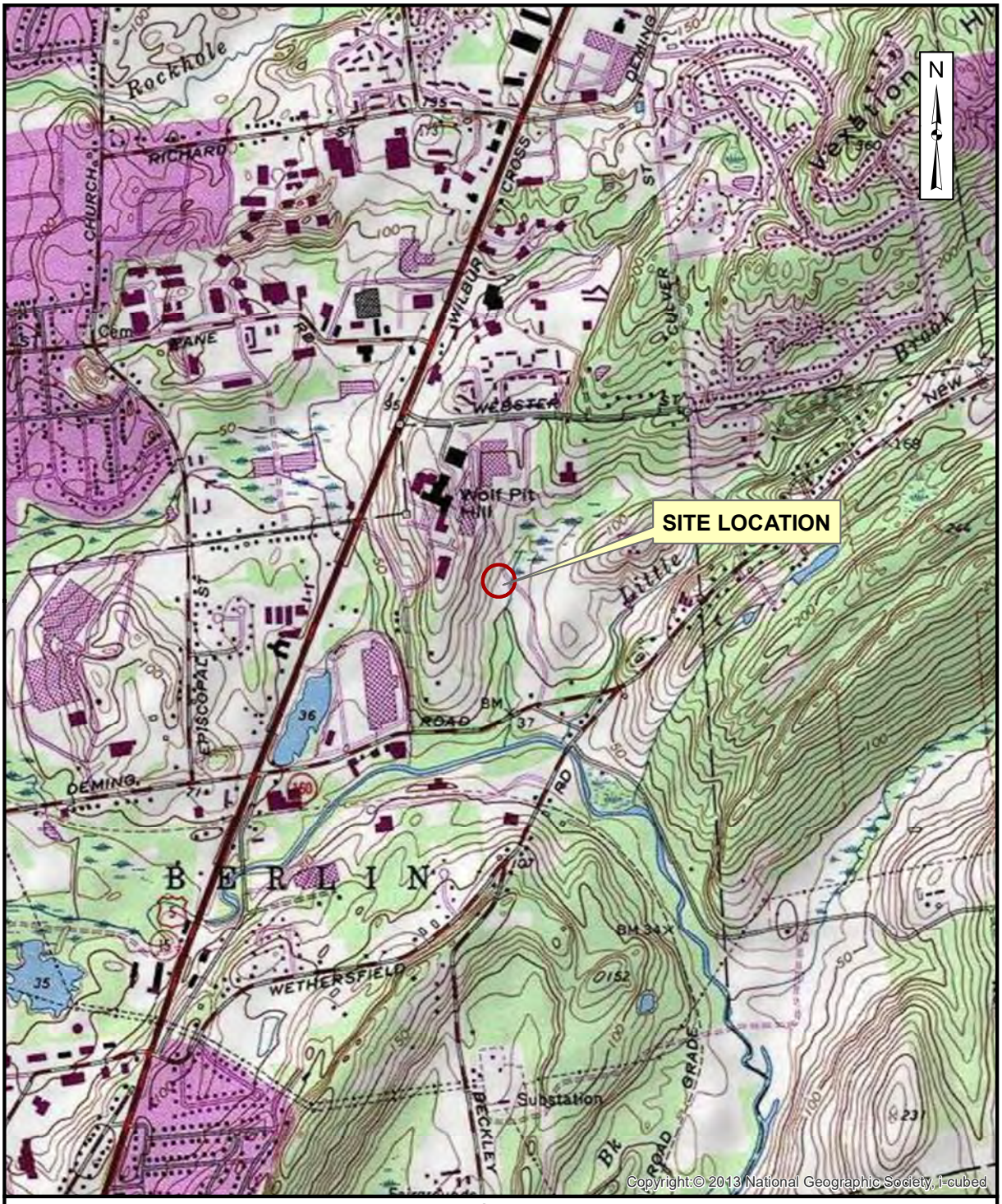


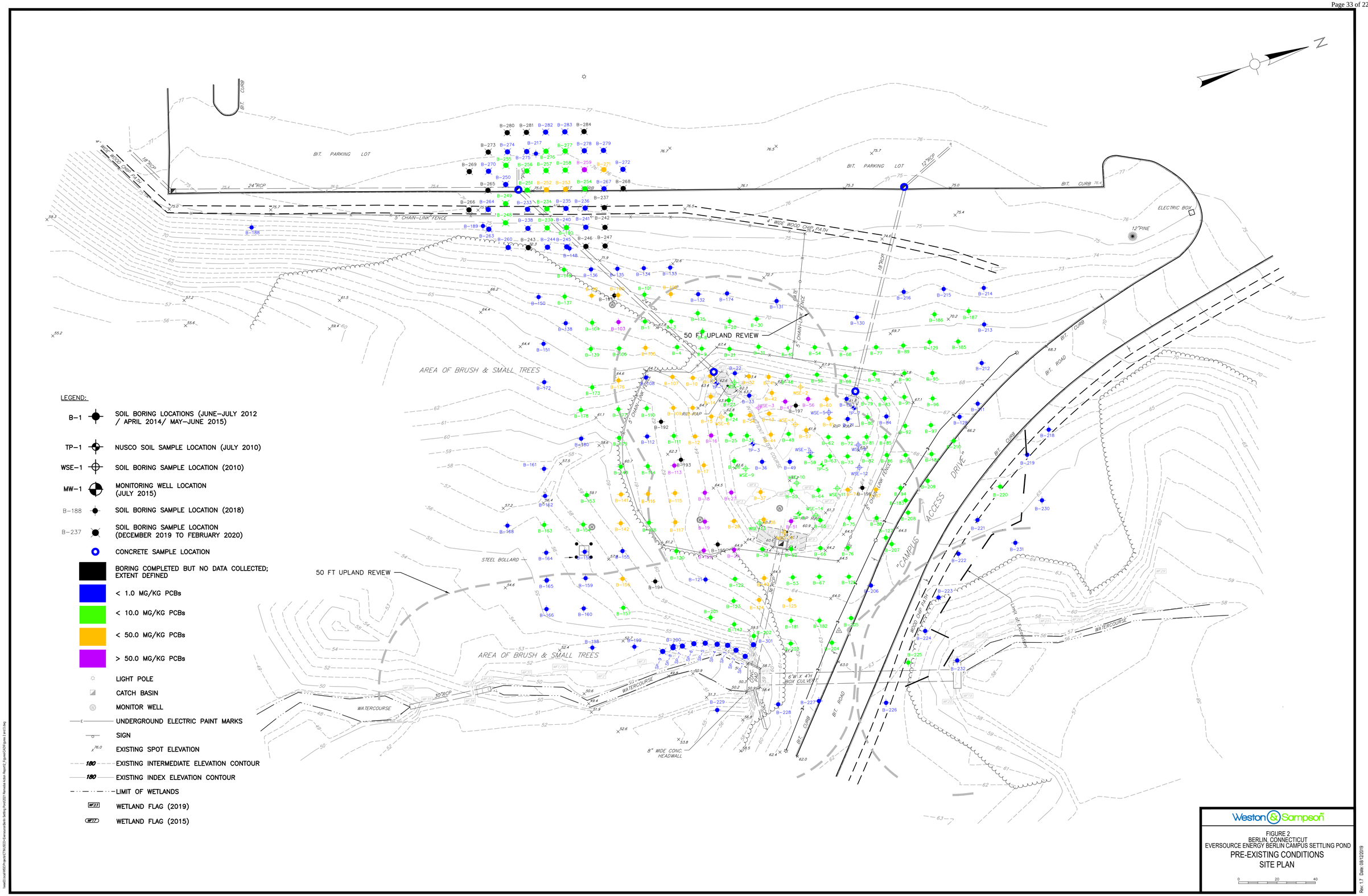
FIGURE 1
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
107 SELDEN STREET
BERLIN, CONNECTICUT

LOCUS MAP

0 2,000 4,000 Feet

Weston & Sampson

Path: \\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Berlin Settling Pond\2021 Remedial Action Report\2_Figures\MXD\Figure 1 -Locus Map.mxd User: McGuireM Saved: 11/29/2021 10:41:56 AM Opened: 12/3/2021 8:07:15 AM



LEGEND:

- B–1 — SOIL BORING LOCATIONS (JUNE–JULY 2012 / APRIL 2014/ MAY–JUNE 2015)
- TP–1 — NUSCO SOIL SAMPLE LOCATION (JULY 2010)
- WSE–1 — SOIL BORING SAMPLE LOCATION (2010)
- MW–1 — MONITORING WELL LOCATION (JULY 2015)
- B–188 — SOIL BORING SAMPLE LOCATION (2018)
- B–237 — SOIL BORING SAMPLE LOCATION (DECEMBER 2019 TO FEBRUARY 2020)
- CONCRETE SAMPLE LOCATION
- BORING COMPLETED BUT NO DATA COLLECTED; EXTENT DEFINED
- < 1.0 MG/KG PCBs
- < 10.0 MG/KG PCBs
- < 50.0 MG/KG PCBs
- > 50.0 MG/KG PCBs
- LIGHT POLE
- CATCH BASIN
- MONITOR WELL
- UNDERGROUND ELECTRIC PAINT MARKS
- SIGN
- 76.0 — EXISTING SPOT ELEVATION
- 180 — EXISTING INTERMEDIATE ELEVATION CONTOUR
- 180 — EXISTING INDEX ELEVATION CONTOUR
- LIMIT OF WETLANDS
- WF23 — WETLAND FLAG (2019)
- WF17 — WETLAND FLAG (2015)

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FIGURE 2
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND
PRE-EXISTING CONDITIONS
SITE PLAN

0 20 40

Rev.1.7 Date: 08/12/2019

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\\wes03.local\WES\Projects\CTNUSO1-Eversource\Berlin Settling Pond\2021 Remedial Action Report\2_Figures\CAD\Figure 2.dwg 3 May

SEE SAMPLING INSET 4A ON FIGURE 4 FOR SAMPLE LOCATIONS

LEGEND:

PROPOSED ≥ 50 MG/KG PCB LIMITS

PROPOSED > 10 MG/KG AND < 50 MG/KG PCB LIMITS

PROPOSED ≤ 10 MG/KG PCB LIMITS

BIT. CURB
BIT. PARKING LOT
4' WIDE WOOD CHIP PATH
18"RCP
24"RCP
5' CHAIN-LINK FENCE
12"RCP
BIT. CURB
ELECTRIC BOX
12"PINE
AREA OF BRUSH & SMALL TREES
GATE
5' CHAIN-LINK FENCE
BIT. ROAD
BIT. CURB
STEEL BOLLARD
RIP RAP
CHAIN-LINK FENCE
AREA OF BRUSH & SMALL TREES
WATERCOURSE
30"RCP
WATERCOURSE
CONC. PAD
6'W X 4'H BOX CULVERT
BIT. ROAD
BIT. CURB
8" WIDE CONC. HEADWALL
WATERCOURSE

7' CUT
7' CUT
7' CUT
14' CUT
14' CUT
14' CUT
10' CUT
14' CUT
2' CUT
6' CUT
4' CUT
2' CUT
5' CUT
2' CUT
3' CUT
7' CUT
6' CUT
5' CUT
6' CUT
1' CUT
2' CUT
6' CUT
2' CUT
7' CUT
2' CUT
9' CUT
6' CUT
2' CUT
5' CUT
4' CUT
4' CUT
2' CUT
2' CUT
5' CUT
2' CUT
2' CUT
2' CUT
6' CUT

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FIGURE 3
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND
PROPOSED REMEDIAL CONSTRUCTION
EXCAVATION SITE PLAN

0 20 40

Rev. 1.7 Date: 08/12/2019

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\\wes01.local\WES\Projects\CTHL002\Eversource\Berlin Settling Pond\2021 Remedial Action Report\2_Figures\CAD\Figure 3 and 3.dwg

EXCAVATION DEPTHS FOR SAMPLING INSETS 4A AND 4B	
EXCAVATION NO.	DEPTH (FT BGS)
A1	7
B1	14
B2	7
C1	7–8
C2	14
C3	14
C4	14–15
C5	14
C6	10–11
C7	5–15
D1	4

NOTE: REFER TO TEXT FOR SUPPLEMENTAL INFORMATION ON EXCAVATIONS ASSOCIATED WITH THE EXCAVATIONS LISTED ABOVE.

DRAIN LINE AND OUTLET REMOVED

DRAIN LINE ABANDONED IN PLACE WITH FLOWABLE FILL

FORMER 5' CHAIN LINK FENCE LIMITS

DRAIN LINE OUTLET REMOVED

REFER TO THE DECEMBER 2020 EPA MODIFICATION – SUPPLEMENTAL INFORMATION IN APPENDIX A FOR SAMPLING LOCATIONS

REMOVED DURING CONSTRUCTION

REDIG FOR PAHS ONLY

RIP RAP

5' CHAIN-LINK FENCE

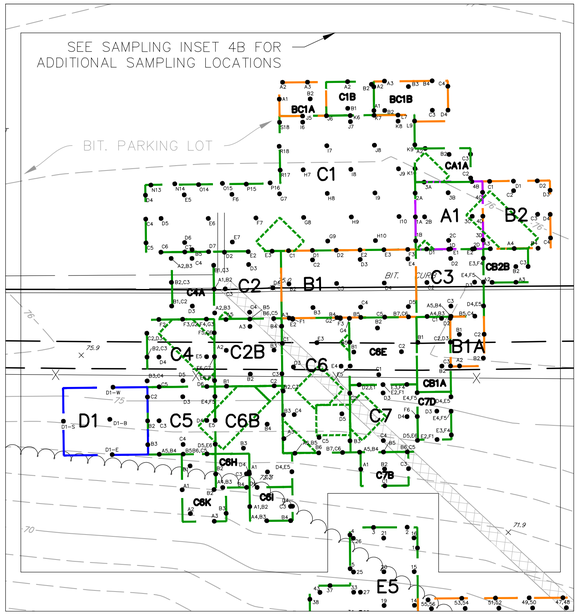
CAMPUS ACCESS ROAD

CHIP PATH

CONC. PAD

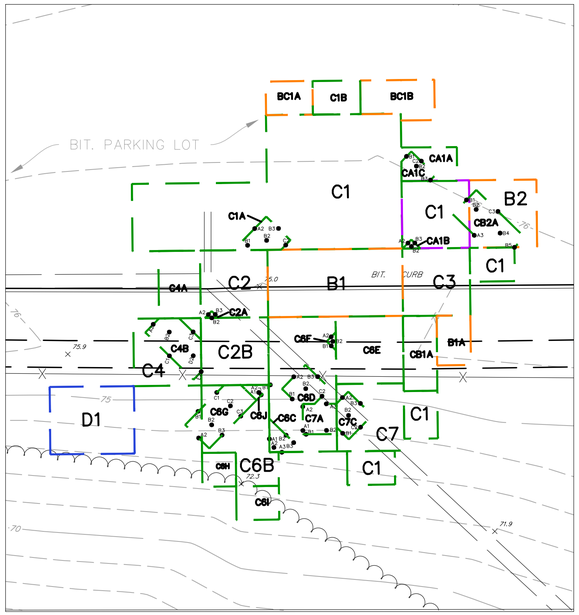
SEE SAMPLING INSET 4B FOR ADDITIONAL SAMPLING LOCATIONS

BIT. PARKING LOT



SAMPLING INSET 4A

0 10 20



SAMPLING INSET 4B

0 10 20

NOTES:

1. SAMPLE IDS SHOWN IN TABLE 1, 2, AND 3 AND LABORATORY ANALYTICAL REPORTS CORRESPOND TO AREAS AND SAMPLE LOCATIONS SHOWN ON THIS FIGURE. FOR EXAMPLE, SAMPLE 29 IN EXCAVATION E23 IS SAMPLE E23–S29 AS SHOWN IN TABLE 1, 2, AND 3.

LEGEND:

- ≥ 50 MG/KG PCB EXCAVATION LIMITS
- > 10 MG/KG AND < 50 MG/KG PCB EXCAVATION LIMITS
- ≤ 10 MG/KG EXCAVATION PCB LIMITS
- OTHER COC EXCAVATION LIMITS
- SUBPART O VERIFICATION SAMPLE LOCATION
- SUBPART O PRE–EXCAVATION VERIFICATION SAMPLE LOCATION
- (W) FORMER MONITORING WELL LOCATION (REMOVED DURING CONSTRUCTION)

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FIGURE 4
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND

REMEDIAL CONSTRUCTION EXCAVATIONS AND PCB VERIFICATION SAMPLING PLAN

0 20 40

Rev. 1:7 Date: 08/12/2019

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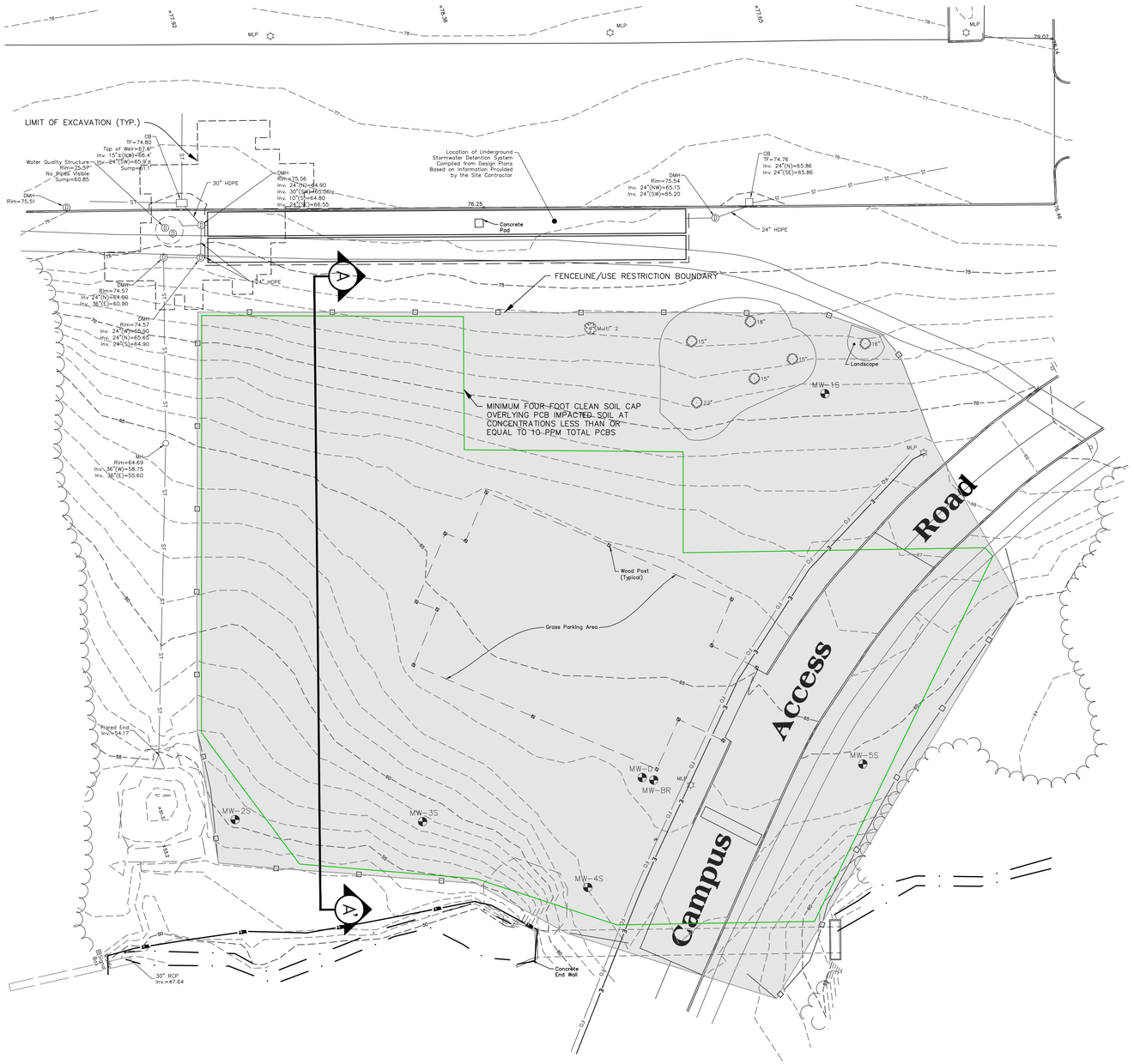
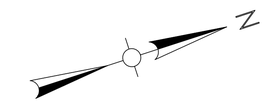
Insert3 Last:[P:\Projects\CT\WE\20CA\Eversource\Berlin Settling Pond\2021 Remedial Action Report\2_Figures\CAD\Figure 2 and 3.dwg]





LEGEND

- EDGE OF WOODS
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB/BUSH
- SIGN
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- WATER SHUTOFF
- GAS VALVE
- WATER VALVE
- MONUMENT
- CIRF — CAPPED IRON PIPE FOUND
- IPF — IRON PIPE FOUND
- IRF — IRON ROD FOUND
- IRS — IRON ROD SET
- HANDICAP SPACE
- HH — HAND HOLE
- E — ELEC. METER
- G — GAS METER
- Gran. — GRANITE
- Conc. — CONCRETE
- Bit. — BITUMINOUS
- PROPERTY LINE
- EASEMENT
- 10 — MAJOR CONTOUR LINE
- 9 — MINOR CONTOUR LINE
- CHAIN LINK FENCE
- WOOD FENCE
- FENCE
- STONEWALL
- ST — STORM SEWER LINE
- S — SANITARY SEWER LINE
- W — WATER LINE
- G — GAS LINE
- SG — SIGNAL WIRE LINE
- C — CABLE LINE
- FO — FIBER OPTIC LINE
- LPS — LOW PRESSURE SEWER LINE
- E — ELECTRIC LINE
- OHU — OVERHEAD UTILITIES
- T — TELEPHONE LINE
- (S) — SANITARY MANHOLE (SMH)
- (D) — DRAINAGE MANHOLE (DMH)
- CATCHBASIN (CB)
- Bol. — METAL POST/BOLLARD (BOL)
- (E) — ELECTRIC MANHOLE (MHE)
- (U) — UNKNOWN MANHOLE
- (T) — TELEPHONE MANHOLE (MHT)
- VP — VENT PIPE
- MAG NAIL — MAGNETIC CONCRETE NAIL
- WLF #TOB1 — WETLAND FLAG (DELINEATED BY OTHERS)
- WET — WETLAND LINE (DELINEATED BY OTHERS)
- EDGE OF WATER (BY AERIAL IMAGE)
- P — ELECTRIC PEDESTAL
- GUY WIRE
- F.F.=317.75 x — FINISHED FLOOR ELEVATION
- x 318.5' — SPOT ELEVATION
- MW-S — MONITORING WELL SCREENED ACROSS GROUNDWATER TABLE
- MW-D — MONITORING WELL SCREENED ON TOP OF BEDROCK SURFACE
- MW-BR — BEDROCK MONITORING WELL
- USE RESTRICTION BOUNDARY

NOTES:

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20 AS AMENDED, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. THE TYPE OF SURVEY IS AN IMPROVEMENT LOCATION SURVEY, THERE IS NO BOUNDARY DETERMINATION/OPINION. THIS SURVEY CONFORMS TO THE FOLLOWING ACCURACY CLASSES:HORIZONTAL CLASS A-2, TOPOGRAPHIC CLASS T-2, AND VERTICAL CLASS V-3.
2. BEARINGS REFER TO CONNECTICUT STATE PLANE COORDINATES NAD 83 AS ESTABLISHED USING GPS SURVEY METHODS IN SEPTEMBER, 2021.
3. ELEVATIONS AND CONTOURS AS DEPICTED HEREON REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
3. SURVEY PERFORMED BY WESTON & SAMPSON LAND SURVEYORS, INC. IN SEPTEMBER, 2021.
4. THE UTILITIES AS DEPICTED HEREON ARE BASED UPON OBSERVED EVIDENCE AT THE TIME OF THE FIELD SURVEY. NO ATTEMPT WAS MADE TO VERIFY THE LOCATIONS AND NO MAPPING WAS OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO WESTON & SAMPSON. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG.

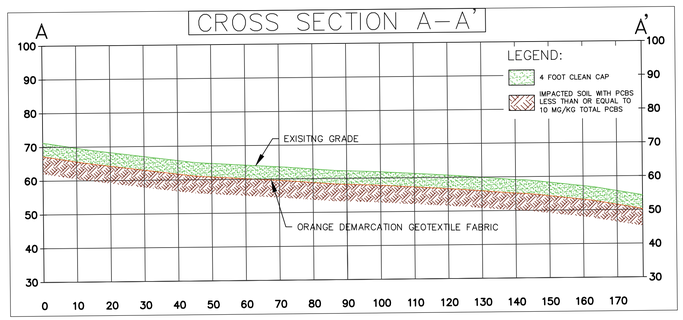


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FIGURE 5
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND
EXISTING CONDITIONS AND
USE RESTRICTION LIMITS PLAN

0 20 40

Rev.: 1.7 Date: 08/12/2019

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TABLES

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
A1																						
A1-1A	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-1B	5/6/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
A1-1D	5/6/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
A1-2A	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-2B	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-2C	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-2D	5/6/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
A1-3A	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-3B	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-3C	5/6/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
A1-3D	5/6/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
A1-4B	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-4C	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
A1-4D	5/6/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1																						
B1-A3	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1-B2	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-B3	5/15/2020		0.61	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.61		0.36 U		0.36 U	
B1-B4	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-B5	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-B7	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-C1	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1-C2	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1-C3	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1-C4	5/18/2020		0.48	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.48		0.38 U		0.38 U	
B1-C5	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-C6	5/18/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
B1-D1	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-D2	5/15/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
B1-D3	5/18/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
B1-D4	5/18/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
B1-D5	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1-E2	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1-E3	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-E4	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1-F3	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B1A																						
B1A-A2	5/27/2020		0.60	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.60		0.38 U		0.38 U	
B1A-B1	5/27/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1A-B2	5/27/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B1A-C2	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B2																						
B2-A3	5/19/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
B2-A4	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B2-B4	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B2-C1	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B2-C2	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B2-C3	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B2-C4	5/19/2020		0.51	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.51		0.36 U		0.36 U	
B2-D1	5/19/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
B2-D2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
B2-D3	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
B2-D4	5/19/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
BC1A																						
BC1A-A1	5/20/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
BC1A-A2	5/20/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
BC1A-A3	5/20/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
BC1A-B2	5/20/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
BC1B																						
BC1B-A1	5/20/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
BC1B-A2	5/20/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
BC1B-A3	5/20/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
BC1B-B2	5/20/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
BC1B-B3	5/20/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
BC1B-B4	5/20/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
BC1B-C3	5/20/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
BC1B-C4	5/20/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
BC1B-D4	5/20/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
C5																						
C5-A5	5/13/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C5-B2	5/13/2020		0.51	Y	0.4 U		0.4 U		0.4 U		0.4 U		0.4 U		0.4 U		0.51		0.4 U		0.4 U	
C5-B3	5/13/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C5-B4	5/13/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C5-B5	5/13/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C5-B6	5/13/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C5-C2	5/13/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C5-C3	5/13/2020		0.43	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.43		0.38 U		0.38 U	
C5-C4	5/13/2020		0.70	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.70		0.38 U		0.38 U	
C5-C5	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C5-D3	5/13/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C5-D4	5/13/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C5-D5	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C5-E4	5/13/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C5-E5	5/13/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C5-E6	5/13/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C5-F5	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1																						
C1-C4	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-C5	5/14/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-C6	5/14/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-C7	5/14/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C1-D4	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-D5	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-D6	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-D7	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-E5	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-E6	5/14/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-E7	5/14/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-F6	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-F7	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-G7	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-G8	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-G9	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-H7	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-H8	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-H9	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-H10	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-I6	5/15/2020		0.44	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.44		0.38 U		0.38 U	
C1-I7	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-I8	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-I9	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-I10	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-J6	5/15/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C1-J7	5/15/2020		1.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.0		0.37 U		0.37 U	
C1-J8	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-J9	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-K6	5/15/2020		0.53	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.53		0.38 U		0.38 U	
C1-K7	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-K8	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-K9	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-K10	5/15/2020		0.56	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.56		0.37 U		0.37 U	
C1-L9	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-N13	5/14/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
C1-N14	5/14/2020		0.39	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.39		0.35 U		0.35 U	
C1-O13	5/14/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
C1-O14	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-O15	5/14/2020		0.68	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.68		0.36 U		0.36 U	
C1-P14	5/14/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C1-P15	5/14/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C1-P16	5/14/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1-Q15	5/14/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
C1-R17	5/14/2020		0.75	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.75		0.38 U		0.38 U	
C1-R18	5/14/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1-S17	5/14/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C1-S18	5/14/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C1A																						
C1A-A2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1A-B1	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1A-B2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1A-B3	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C1A-C2	5/19/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C1B																						
C1B-A2	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C1B-B1	5/22/2020		0.78	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.78		0.36 U		0.36 U	
C1B-B2	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2																						
C2-A1	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2-A2	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C2-A5	5/15/2020		0.48	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.48		0.37 U		0.37 U	
C2-B1	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2-B2	5/15/2020		0.95	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.95		0.37 U		0.37 U	
C2-B3	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2-B5	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2-B6	5/15/2020		0.41 U	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U	
C2-C2	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C2-C3	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C2-C4	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2-C5	5/15/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C2-D2	5/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2-D3	5/15/2020		0.36 U	Y	0.36 U		0.36 U

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
C2B																						
C2B-A2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2B-A3	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2B-B1	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2B-B2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2B-B3	5/19/2020		0.49	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.49		0.38 U		0.38 U	
C2B-B4	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C2B-C2	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C2B-C3	5/19/2020		0.51	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.51		0.37 U		0.37 U	
C3																						
C3-A4	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C3-A5	5/18/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C3-B3	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C3-B4	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C3-B5	5/18/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
C3-C2	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C3-C3	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C3-C4	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C3-D1	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C3-D2	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C3-D3	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C3-D4	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C3-E1	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C3-E2	5/18/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C3-E3	5/18/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C3-E4	5/18/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C3-E5	5/18/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C3-F4	5/18/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C3-F5	5/18/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C4																						
C4-A1	5/13/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C4-A2	5/13/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C4-B1	5/13/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C4-B2	5/13/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C4-B3	5/13/2020		0.42 U	Y	0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		0.42 U	
C4-B4	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-C2	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-C3	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-C4	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-C5	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-D2	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-D3	5/13/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C4-D4	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-D5	5/13/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C4-E1	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-E2	5/13/2020		0.58	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.58		0.40 U		0.40 U	
C4-E5	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-E6	5/13/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C4-F1	5/13/2020		0.60	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.60		0.35 U		0.35 U	
C4-F2	5/13/2020		0.38	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38		0.38 U		0.38 U	
C4-F5	5/13/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4-F6	5/13/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C4A																						
C4A-A2	5/19/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C4A-B1	5/19/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C4A-B2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4A-B3	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C4A-B5	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4A-C2	5/19/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C4A-C3	5/19/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C4A-C4	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C4A-D3	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4B																						
C4B-A2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4B-B2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4B-C1	5/19/2020		0.59	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.59		0.37 U		0.37 U	
C4B-C3	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C4B-D2	5/19/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C4B-E2	5/19/2020		0.39	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.39		0.37 U		0.37 U	
C6																						
C6-A3	5/12/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6-A6	5/12/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6-B2	5/12/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6-B3	5/12/2020		0.41	Y	0.19 U		0.19 U		0.19 U		0.19 U		0.19 U		0.19 U		0.41		0.19 U		0.19 U	
C6-B5	5/12/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
C6-B6	5/12/2020		0.44	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.44		0.38 U		0.38 U	
C6-B7	5/12/2020		0.58	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.58		0.38 U		0.38 U	
C6-C1	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6-C3	5/12/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C6-C4	5/12/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6-C5	5/12/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6-C6	5/12/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6-D3	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6-D5	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6-E2	5/12/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C6-E3	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6-E4	5/12/2020		0.89	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.89		0.37 U		0.37 U	
C6-F1	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6-F3	5/12/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6-G2	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6-G5	5/12/2020		0.40	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.40		0.37 U		0.37 U	
C6B																						
C6B-A1	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6B-B3	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6B-B4	5/22/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6B-C3	5/22/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C6B-D1	5/22/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C6B-D4	5/22/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C6B-E5	5/22/2020		0.48	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.48		0.36 U		0.36 U	
C6C																						
C6C-A1	5/27/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
C6C-A2	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6C-A3	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6C-B2	5/20/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6C-B3	5/20/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6D																						
C6D-A2	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6D-B1	5/21/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6D-B2	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6D-B3	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6D-C2	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6E																						
C6E-B1	5/21/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C6E-B2	5/21/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C6E-C1	5/21/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6E-C2	5/21/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C6E-C3	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6E-D2	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6F																						
C6F-A2	5/20/2020		0.66	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.66		0.36 U		0.36 U	
C6F-B1	5/20/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C6F-B2	5/20/2020		0.64	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.64		0.35 U		0.35 U	
C6G																						
C6G-A2	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6G-B1	5/27/2020		0.48	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.48		0.36 U		0.36 U	
C6G-B2	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6G-B3	5/27/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6G-C1	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6G-C2	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6G-C3	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6H																						
C6H-A4	5/27/2020		0.52	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.52		0.38 U		0.38 U	
C6H-B2	5/27/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6H-B3	5/27/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6H-B4	5/27/2020		0.41 U	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U	
C6H-C3	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6H-D4	5/27/2020		0.42	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.42		0.38 U		0.38 U	
C6I																						
C6I-A1	5/27/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C6I-A4	5/27/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C6I-B2	5/27/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6I-B3	5/27/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6i-B4	5/27/2020		0.5	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.5		0.39 U		0.39 U	
C6I-C3	5/27/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C6J																						
C6J-A1	6/1/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6J-A2	6/1/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C6J-B1	6/1/2020		0.54	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.54		0.35 U		0.35 U	
C6K																						
C6K-A1	6/1/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6K-A2	6/1/2020		0.76	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.76		0.38 U		0.38 U	
C6K-A3	6/1/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C6K-B1	6/1/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C6K-B2	6/1/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
C6K-B3	6/1/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
C7																						
C7-A5	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7-B3	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7-B4	5/12/2020		0.56	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.56		0.38 U		0.38 U	
C7-B5	5/12/2020		0.39	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.39		0.38 U		0.38 U	
C7-B6	5/12/2020		0.52	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.52		0.38 U		0.38 U	
C7-C2	5/12/2020		0.48	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.48		0.37 U		0.37 U	
C7-C4	5/12/2020		0.42	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.42		0.38 U		0.38 U	
C7-C5	5/12/2020		0.61	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.61		0.37 U		0.37 U	
C7-D2	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7-D3	5/12/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7-D4	5/12/2020		0.82	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.82		0.36 U		0.36 U	
C7-D5	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7-E1	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7-E2	5/12/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7-E3	5/12/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C7-E4	5/12/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7-E6	5/12/2020		0.40	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.40		0.39 U		0.39 U	
C7-F1	5/12/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7-F2	5/12/2020		0.54	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.54		0.38 U		0.38 U	
C7-F5	5/12/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
C7-F6	5/12/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C7A																						
C7A-A1	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7A-A2	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7A-A3	5/21/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7A-B1	5/21/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7A-B2	5/21/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C7B																						
C7B-A1	5/20/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7B-B1	5/20/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C7B-B2	5/20/2020		0.77	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.77		0.38 U		0.38 U	
C7B-C1	5/20/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7B-C2	5/20/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C7B-C3	5/20/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7C																						
C7C-A2	5/22/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7C-B1	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7C-B2	5/22/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C7C-B3	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7C-C2	5/22/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
C7D																						
C7D-D3	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7D-D4	5/21/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C7D-E2	5/21/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C7D-E3	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7D-E4	5/21/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
C7D-E5	5/21/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
C7D-F1	5/21/2020		0.44	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.44		0.38 U		0.38 U	
C7D-F4	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
C7D-F5	5/21/2020		0.53	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.53		0.37 U		0.37 U	
CA1A																						
CA1A-A2	5/19/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
CA1A-B2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
CA1A-C2	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
CA1A-C3	5/19/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
CA1B																						
CA1B-A2	5/19/2020		0.45	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.45		0.36 U		0.36 U	
CA1B-B2	5/19/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
CA1B-B3	5/19/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
CA1C																						
CA1C-B1	5/22/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
CA1C-B2	5/22/2020		0.65	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.65		0.34 U		0.34 U	
CA1C-B3	5/22/2020		0.37	Y	0.18 U		0.18 U		0.18 U		0.18 U		0.18 U		0.18 U		0.37		0.18 U		0.18 U	
CA1C-C2	5/22/2020		0.82	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.82		0.36 U		0.36 U	
CB1A																						
CB1A-B1	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
CB1A-B2	5/21/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
CB1A-C1	5/21/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
CB1A-C2	5/21/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
CB1A-C3	5/21/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
CB1A-D3	5/21/2020		0.54	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.54		0.38 U		0.38 U	
CB2A																						
CB2A-A2	5/22/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
CB2A-B1	5/22/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
CB2A-B2	5/22/2020		0.92	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.92		0.37 U		0.37 U	
CB2A-B3	5/22/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
CB2A-C1	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
CB2A-C2	5/22/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
CB2A-C3	5/22/2020		0.39	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.39		0.36 U		0.36 U	
CB2A-D2	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
CB2B																						
CB2B-A2	5/22/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
CB2B-A3	5/22/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
CB2B-B2	5/22/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
CB2B-C3	5/22/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E1																						
E1-S1 (SW)	8/7/2020		2.0	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.0		0.35 U		0.35 U	
E1-S4 (SW)	8/7/2020		1.3	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		1.3		0.40 U		0.40 U	
E1-S5 (SW)	8/7/2020		9.1	Y	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		9.1		2.0 U		2.0 U	
E1-S6 (SW)	8/7/2020		6.2	Y	0.20 U		0.20 U		0.20 U		0.20 U		0.20 U		0.20 U		6.2		0.20 U		0.20 U	
E1-S7 (SW)	8/7/2020		3.4	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		3.4		0.40 U		0.40 U	
E1-S8 (SW)	8/7/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E1-S9 (SW)	8/7/2020		0.63	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.63		0.41 U		0.41 U	
E1-S11 (SW)	8/7/2020		4.6	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		4.6		0.39 U		0.39 U	
E1-S12 (SW)	8/7/2020		2.1	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		2.1		0.40 U		0.40 U	
E1-S13 (SW)	8/7/2020		0.77	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.77		0.36 U		0.36 U	
E1-S14 (SW)	8/7/2020		1.1	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.1		0.36 U		0.36 U	
E1-S15 (SW)	8/7/2020		6.6	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		6.6		1.8 U		1.8 U	
E1-S16 (SW)	8/7/2020		3.8	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		3.8		0.35 U		0.35 U	
E1-S17 (SW)	8/7/2020		7.8	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		7.8		1.8 U		1.8 U	
E1-S18	8/7/2020		0.99	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.99		0.36 U		0.36 U	
E1-S19	8/7/2020		8.4	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		8.4		1.9 U		1.9 U	
E1-S20	8/7/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E1-S21	8/7/2020		1.1	Y	0.43 U		0.43 U		0.43 U		0.43 U		0.43 U		0.43 U		1.1		0.43 U		0.43 U	
E1-S22	8/7/2020		1.8	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.8		0.36 U		0.36 U	
E1-S23	8/7/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E1-S24	8/7/2020		1.4	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.4		0.37 U		0.37 U	
E1-S25	8/7/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E1-S26	8/7/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E1-S27	8/7/2020		0.87		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.87		0.38 U		0.38 U	
E1-S28	8/7/2020		2.2	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		2.2		0.41 U		0.41 U	
E1-S29	8/7/2020		1.1	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		1.1		0.40 U		0.40 U	
E1-S30	8/7/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E1-S31	8/7/2020		2.9	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		2.9		0.39 U		0.39 U	
E1-S32	8/7/2020		1.3	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.3		0.38 U		0.38 U	
E1-S33	8/7/2020		4.6	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		4.6		0.40 U		0.40 U	
E1-S34 (SW)	9/3/2020		0.56	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.56		0.38 U		0.38 U	
E1-S35 (SW)	9/3/2020		5.7	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		5.7		1.9 U		1.9 U	
E1-S36 (SW)	9/3/2020		4.1	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		4.1		0.40 U		0.40 U	
E1-S37 (SW)	9/3/2020		2.5	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		2.5		0.40 U		0.40 U	
E1-S38 (SW)	9/3/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E1-S39 (SW)	9/3/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E1-S40	9/3/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E1-S41	9/3/2020		3.2	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		3.2		0.39 U		0.39 U	
E1-S42	9/3/2020		3.4	Y	0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		3.4		0.42 U		0.42 U	

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			R F	R F	R F	R F	R F	R F	R F	R F	R F	R F
I/C DEC (rev. 06-27-2013)		>	10									
Res. DEC (rev. 06-27-2013)		>	1									
E3												
E3-S1(SW)	8/12/2020		0.85 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.85	0.34 U	0.34 U
E3-S2(SW)	8/12/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E3-S3(SW)	8/12/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E3-S4(SW)	8/12/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E3-S6 (SW)	8/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E3-S7 (SW)	8/11/2020		1.5 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.5	0.34 U	0.34 U
E3-S8 (SW)	8/11/2020		0.56 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.56	0.35 U	0.35 U
E3-S9 (SW)	8/11/2020		0.72 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.72	0.33 U	0.33 U
E3-S10 (SW)	8/11/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S11 (SW)	8/11/2020		2.1 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.1	0.33 U	0.33 U
E3-S12 (SW)	8/11/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S13 (SW)	8/11/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S14 (SW)	8/11/2020		1.7 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.7	0.35 U	0.35 U
E3-S15 (SW)	8/11/2020		2.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.1	0.34 U	0.34 U
E3-S16 (SW)	8/11/2020		0.55 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.55	0.33 U	0.33 U
E3-S17 (SW)	8/11/2020		4.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	4.4	0.34 U	0.34 U
E3-S18 (SW)	8/11/2020		0.37 Y	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.37	0.17 U	0.17 U
E3-S20 (SW)	8/11/2020		3.4 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.4	0.35 U	0.35 U
E3-S21 (SW)	8/11/2020		7.1 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.1	1.7 U	1.7 U
E3-S24 (SW)	8/11/2020		0.38 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38	0.37 U	0.37 U
E3-S25 (SW)	8/11/2020		9.2 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	9.2	1.7 U	1.7 U
E3-S26 (SW)	8/11/2020		5.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.6	1.7 U	1.7 U
E3-S28 (SW)	8/11/2020		1.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.4	0.34 U	0.34 U
E3-S30 (SW)	8/11/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S32 (SW)	8/11/2020		0.72 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.72	0.33 U	0.33 U
E3-S33 (SW)	8/11/2020		0.82 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.82	0.33 U	0.33 U
E3-S34 (SW)	8/11/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S35 (SW)	8/11/2020		1.9 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.9	0.33 U	0.33 U
E3-S36 (SW)	8/11/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S37 (SW)	8/11/2020		3.5 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.5	1.7 U	1.7 U
E3-S38 (SW)	8/11/2020		1.1 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.1	0.33 U	0.33 U
E3-S39 (SW)	8/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E3-S40 (SW)	8/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E3-S42 (SW)	8/11/2020		0.96 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.96	0.38 U	0.38 U
E3-S43 (SW)	8/11/2020		0.94 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.94	0.34 U	0.34 U
E3-S44 (SW)	8/11/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E3-S45 (SW)	8/11/2020		1.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.5	0.35 U	0.35 U
E3-S46 (SW)	8/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E3-S48 (SW)	8/11/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E3-S49 (SW)	8/11/2020		9.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.9	1.8 U	1.8 U
E3-S50 (SW)	8/11/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S54 (SW)	8/12/2020		1 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1	0.37 U	0.37 U
E3-S56 (SW)	8/12/2020		1.8 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.8	0.38 U	0.38 U
E3-S57 (SW)	8/12/2020		7.1 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.1	1.7 U	1.7 U
E3-S58 (SW)	8/12/2020		3.6 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.6	1.9 U	1.9 U
E3-S59 (SW)	8/12/2020		9.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	9.6	1.7 U	1.7 U
E3-S62 (SW)	8/12/2020		4.8 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	4.8	0.38 U	0.38 U
E3-S63 (SW)	8/12/2020		3.9 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.9	0.34 U	0.34 U
E3-S64 (SW)	8/12/2020		2.8 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	2.8	0.38 U	0.38 U
E3-S67 (SW)	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S68 (SW)	8/12/2020		0.56 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.56	0.37 U	0.37 U
E3-S69 (SW)	8/12/2020		3.6 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.6	0.34 U	0.34 U
E3-S70 (SW)	8/12/2020		0.95 Y	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.95	0.32 U	0.32 U
E3-S73 (SW)	8/12/2020		6.5 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.5	1.8 U	1.8 U
E3-S74 (SW)	8/12/2020		1.6 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.6	0.37 U	0.37 U
E3-S75 (SW)	8/12/2020		8.5 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	8.5	1.9 U	1.9 U
E3-S76 (SW)	8/12/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E3-S77 (SW)	8/12/2020		5.5 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.5	1.8 U	1.8 U
E3-S78 (SW)	8/12/2020		2 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2	0.34 U	0.34 U
E3-S79 (SW)	8/12/2020		7.4 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	7.4	1.9 U	1.9 U
E3-S80 (SW)	8/12/2020		0.58 Y	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.58	0.41 U	0.41 U
E3-S82 (SW)	8/12/2020		3.6 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.6	0.36 U	0.36 U
E3-S83 (SW)	8/12/2020		5.9 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5.9	1.9 U	1.9 U
E3-S84 (SW)	8/12/2020		6 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6	1.8 U	1.8 U
E3-S86 (SW)	8/12/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E3-S87(SW)	8/12/2020		7.7 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.7	1.7 U	1.7 U
E3-S88(SW)	8/12/2020		0.39 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39	0.39 U	0.39 U
E3-S89(SW)	8/12/2020		7.2 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.2	1.7 U	1.7 U
E3-S90(SW)	8/12/2020		0.56 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.56	0.39 U	0.39 U
E3-S91(SW)	8/12/2020		4.0 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	4.0	0.35 U	0.35 U
E3-S92(SW)	8/12/2020		1.9 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.9	0.37 U	0.37 U
E3-S93(SW)	8/12/2020		4.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.7	1.8 U	1.8 U
E3-S94(SW)	8/12/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S95(SW)	8/12/2020		0.95 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.95	0.36 U	0.36 U
E3-S96(SW)	8/12/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S97(SW)	8/12/2020		0.48 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.48	0.35 U	0.35 U
E3-S98(SW)	8/12/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E3-S99(SW)	8/12/2020		0.97 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.97	0.36 U	0.36 U
E3-S100(SW)	8/12/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E3-S101	8/12/2020		4.3 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	4.3	0.38 U	0.38 U
E3-S102	8/12/2020		3.7 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.7	0.36 U	0.36 U
E3-S103	8/12/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E3-S104	8/12/2020		3.1 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.1	0.37 U	0.37 U
E3-S105	8/12/2020		1.5 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.5	0.39 U	0.39 U
E3-S106	8/12/2020		0.49 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.49	0.38 U	0.38 U
E3-S107	8/12/2020		0.86 Y	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.86	0.42 U	0.42 U
E3-S108	8/12/2020		0.42 U, Y	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
E3-S109	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S110	8/12/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S111	8/12/2020		2.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.2	0.36 U	0.36 U
E3-S112	8/12/2020		1.5 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.5	0.36 U	0.36 U
E3-S113	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S114	8/12/2020		0.96 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.96	0.34 U	0.34 U
E3-S115	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S116	8/12/2020		0.79 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79	0.39 U	0.39 U
E3-S117	8/12/2020		0.87 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.87	0.34 U	0.34 U
E3-S118	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S119	8/12/2020		0.37 Y	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.37	0.17 U	0.17 U
E3-S120	8/12/2020		0.88 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.88	0.39 U	0.39 U
E3-S121	8/12/2020		0.79 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.79	0.36 U	0.36 U
E3-S122	8/12/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E3-S123	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S124	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S125	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S126	8/12/2020		1.6 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.6	0.39 U	0.39 U
E3-S127	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S128	8/12/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S129	8/12/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S130	8/12/2020		0.36 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.36	0.33 U	0.33 U
E3-S131	8/12/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S132	8/12/2020		1.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.2	0.35 U	0.35 U
E3-S133	8/12/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S134	8/12/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S135	8/12/2020		2.3 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.3	0.36 U	0.36 U
E3-S136	8/12/2020		1.5 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.5	0.34 U	0.34 U
E3-S137	8/12/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S138	8/12/2020		2.9 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	2.9	0.38 U	0.38 U
E3-S139	8/12/2020		1.4 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.4	0.39 U	0.39 U
E3-S140	8/12/2020		0.43 U, Y	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
E3-S141	8/13/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S142	8/13/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S143	8/13/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S144	8/13/2020		0.75 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.75	0.35 U	0.35 U
E3-S145	8/13/2020		0.40 Y	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.40	0.17 U	0.17 U
E3-S146	8/13/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S147	8/13/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S148	8/13/2020		0.41 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.41	0.33 U	0.33 U
E3-S149	8/13/2020		0.96 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.96	0.33 U	0.33 U
E3-S150	8/13/2020		4.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.6	1.7 U	1.7 U
E3-S151	8/13/2020		1.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.6	0.35 U	0.35 U
E3-S152	8/13/2020		4.3 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	4.3	0.37 U	0.37 U
E3-S153	8/13/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E3-S154	8/13/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S155	8/13/2020		0.34 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34	0.33 U	0.33 U
E3-S156	8/13/2020		0.55 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.55	0.34 U	0.34 U
E3-S157	8/13/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S158	8/13/2020		3.9 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.9	0.34 U	0.34 U
E3-S159	8/13/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S160	8/13/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S161	8/13/2020		0.63 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.63	0.33 U	0.33 U
E3-S162	8/13/2020		7.4 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.4	1.7 U	1.7 U
E3-S163	8/13/2020		5.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.7	1.8 U	1.8 U
E3-S164	8/13/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S165	8/13/2020		1.3 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.3	0.34 U	0.34 U
E3-S166	8/13/2020		0.58 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.58	0.33 U	0.33 U
E3-S167	8/13/2020		0.74 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.74	0.34 U	0.34 U
E3-S168	8/13/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S169	8/13/2020		0.59 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.59	0.35 U	0.35 U
E3-S170	8/13/2020		5.5 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.5	1.8 U	1.8 U
E3-S171	8/13/2020		0.55 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.55	0.33 U	0.33 U
E3-S172	8/13/2020		0.80 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.80	0.37 U	0.37 U
E3-S173	8/13/2020		7.0 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.0	1.7 U	1.7 U
E3-S174	8/13/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S175	8/13/2020		0.68 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.68	0.33 U	0.33 U
E3-S176	8/13/2020		0.45 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.45	0.33 U	0.33 U
E3-S177	8/13/2020		1.1 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.1	0.37 U	0.37 U
E3-S179 (SW)	8/17/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E3-S180 (SW)	8/17/2020		6.5 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.5	1.8 U	1.8 U
E3-S181 (SW)	8/17/2020		1.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.2	0.36 U	0.36 U
E3-S183 (SW)	8/17/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S184	8/17/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S186 (SW)	8/17/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E3-S187 (SW)	8/17/2020		0.49 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.49	0.36 U	0.36 U
E3-S188 (SW)	8/17/2020		4.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	4.2	0.35 U	0.35 U
E3-S189 (SW)	8/17/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E3-S190 (SW)	8/17/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S191	8/17/2020		6.1 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.1	1.8 U	1.8 U
E3-S192	8/17/2020		7.7 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	7.7	1.9 U	1.9 U
E3-S193 (SW)

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			R F	R F	R F	R F	R F	R F	R F	R F	R F	R F
I/C DEC (rev. 06-27-2013)		>	10									
Res. DEC (rev. 06-27-2013)		>	1									
E3-S205 (SW)	9/14/2020		6.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.6	1.7 U	1.7 U
E3-S206 (SW)	9/14/2020		3.6 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.6	0.34 U	0.34 U
E3-S207 (SW)	9/14/2020		0.46 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.46	0.33 U	0.33 U
E3-S208	9/14/2020		3.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.1	0.35 U	0.35 U
E3-S210 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S211 (SW)	9/14/2020		3.7 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.7	0.37 U	0.37 U
E3-S212 (SW)	9/14/2020		7.5 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.5	1.8 U	1.8 U
E3-S214 (SW)	9/14/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S215	9/14/2020		4.0 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.0	1.7 U	1.7 U
E3-S217 (SW)	9/14/2020		3.2 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.2	1.9 U	1.9 U
E3-S220	9/14/2020		2.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.4	0.36 U	0.36 U
E3-S221 (SW)	9/14/2020		9 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	9	1.7 U	1.7 U
E3-S222 (SW)	9/14/2020		2.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.1	0.34 U	0.34 U
E3-S223 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S224 (SW)	9/14/2020		0.40 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.40	0.33 U	0.33 U
E3-S225	9/14/2020		7.2 Y	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.2	1.6 U	1.6 U
E3-S226 (SW)	9/17/2020		2.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.2	0.35 U	0.35 U
E3-S227 (SW)	9/17/2020		0.41 U, Y	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
E3-S228 (SW)	9/17/2020		4.8 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.8	1.7 U	1.7 U
E3-S229 (SW)	9/17/2020		7.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.6	1.7 U	1.7 U
E3-S230	9/17/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E3-S231 (SW)	9/17/2020		7.6 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.6	1.8 U	1.8 U
E3-S232 (SW)	9/17/2020		6.6 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.6	1.8 U	1.8 U
E3-S236 (SW)	9/17/2020		3.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.4	0.36 U	0.36 U
E3-S239 (SW)	9/17/2020		6.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.4	1.8 U	1.8 U
E3-S240 (SW)	9/17/2020		3.7 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.7	0.36 U	0.36 U
E3-S243 (SW)	9/17/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E3-S246 (SW)	9/17/2020		0.42 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.42	0.35 U	0.35 U
E3-S247 (SW)	9/17/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S248 (SW)	9/17/2020		3.2 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.2	0.37 U	0.37 U
E3-S249 (SW)	9/17/2020		0.35 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35	0.34 U	0.34 U
E3-S250 (SW)	9/17/2020		2.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.4	0.36 U	0.36 U
E3-S253 (SW)	9/17/2020		4.6 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	4.6	0.39 U	0.39 U
E3-S254	9/17/2020		0.58 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.58	0.39 U	0.39 U
E3-S255	9/17/2020		9.7 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.7	1.9 U	1.9 U
E3-S256	9/22/2020		4.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	4.4	0.36 U	0.36 U
E3-S257(SW)	9/22/2020		1.8 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.8	0.34 U	0.34 U
E3-S258(SW)	9/22/2020		0.82 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.82	0.35 U	0.35 U
E3-S259(SW)	9/22/2020		2.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.8	0.35 U	0.35 U
E3-S260(SW)	9/22/2020		1.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.8	0.35 U	0.35 U
E3-S261(SW)	9/22/2020		5.1 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.1	1.8 U	1.8 U
E3-S262(SW)	9/22/2020		5.2 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5.2	1.9 U	1.9 U
E3-S263	9/22/2020		1.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.7	0.34 U	0.34 U
E3-S264(SW)	9/22/2020		0.36 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.36	0.34 U	0.34 U
E3-S265(SW)	9/22/2020		0.34 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34	0.34 U	0.34 U
E3-S266(SW)	9/22/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E3-S267(SW)	9/22/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E3-S268(SW)	9/22/2020		1.4 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.4	0.35 U	0.35 U
E3-S269	9/22/2020		0.79 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.79	0.34 U	0.34 U
E3-S270	9/22/2020		0.62 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.62	0.34 U	0.34 U
E3-S271	9/22/2020		2.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.8	0.35 U	0.35 U
E4												
E4-S3 (SW)	8/14/2020		9.1 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.1	1.9 U	1.9 U
E4-S5 (SW)	8/14/2020		1.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.5	0.37 U	0.37 U
E4-S6 (SW)	8/14/2020		3.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4	0.34 U	0.34 U
E4-S7 (SW)	8/14/2020		4.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	4.1	0.35 U	0.35 U
E4-S8 (SW)	8/14/2020		6.3 Y	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	6.3	2.0 U	2.0 U
E4-S9 (SW)	8/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E4-S10 (SW)	8/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E4-S11 (SW)	8/14/2020		1.2 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.2	0.34 U	0.34 U
E4-S12 (SW)	8/14/2020		0.89 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.89	0.34 U	0.34 U
E4-S13 (SW)	8/14/2020		0.36 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.36	0.34 U	0.34 U
E4-S18 (SW)	8/14/2020		2.8 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.8	0.36 U	0.36 U
E4-S19 (SW)	8/14/2020		1.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.1	0.34 U	0.34 U
E4-S20 (SW)	8/14/2020		9.0 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.0	1.9 U	1.9 U
E4-S22 (SW)	8/14/2020		1.9 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.9	0.37 U	0.37 U
E4-S23 (SW)	8/14/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S24 (SW)	8/14/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E4-S25 (SW)	8/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E4-S26 (SW)	8/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E4-S27 (SW)	8/14/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S28 (SW)	8/14/2020		7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7	1.8 U	1.8 U
E4-S29 (SW)	8/14/2020		0.49 Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.49	0.40 U	0.40 U
E4-S31 (SW)	8/14/2020		1.7 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7	0.33 U	0.33 U
E4-S32 (SW)	8/14/2020		0.73 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.73	0.36 U	0.36 U
E4-S33 (SW)	8/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E4-S34 (SW)	8/14/2020		8.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.4	1.8 U	1.8 U
E4-S35 (SW)	8/14/2020		3.5 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	3.5	0.38 U	0.38 U
E4-S37 (SW)	8/14/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E4-S38 (SW)	8/14/2020		0.66 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.66	0.37 U	0.37 U
E4-S39	8/14/2020		1.4 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.4	0.37 U	0.37 U
E4-S40	8/14/2020		0.84 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.84	0.37 U	0.37 U
E4-S41	8/14/2020		1.9 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.9	0.38 U	0.38 U
E4-S42	8/14/2020		0.79 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.79	0.37 U	0.37 U
E4-S43	8/14/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S44	8/14/2020		3.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.7	1.8 U	1.8 U
E4-S46	8/14/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S47	8/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E4-S48	8/14/2020		4.3 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.3	1.8 U	1.8 U
E4-S49	8/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E4-S50	8/14/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S51	8/14/2020		2.8 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.8	0.37 U	0.37 U
E4-S52	8/14/2020		6.0 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.0	1.7 U	1.7 U
E4-S53	8/14/2020		6.4 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	6.4	1.9 U	1.9 U
E4-S54	8/14/2020		0.89 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.89	0.36 U	0.36 U
E4-S55	8/14/2020		4.0 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	4.0	1.9 U	1.9 U
E4-S56	8/14/2020		5.0 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.0	1.7 U	1.7 U
E4-S57	8/14/2020		0.40 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.40	0.36 U	0.36 U
E4-S58	8/14/2020		2.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.5	0.35 U	0.35 U
E4-S59	8/14/2020		2.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.7	0.34 U	0.34 U
E4-S60	8/14/2020		3.9 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.9	0.35 U	0.35 U
E4-S61	8/14/2020		3.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.2	0.35 U	0.35 U
E4-S62	8/14/2020		5.6 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5.6	1.9 U	1.9 U
E4-S63 (SW)	9/18/2020		0.50 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.50	0.35 U	0.35 U
E4-S64 (SW)	9/18/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S65 (SW)	9/18/2020		3.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.5	0.37 U	0.37 U
E4-S66 (SW)	9/18/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E4-S67	9/18/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E4-S68	9/18/2020		0.83 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.83	0.36 U	0.36 U
E4-S70 (SW)	9/18/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S71 (SW)	9/18/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E4-S72 (SW)	9/18/2020		2.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.2	0.35 U	0.35 U
E4-S73(SW)	9/22/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E4-S74(SW)	9/22/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E4-S75(SW)	9/22/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E4-S76(SW)	9/22/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E4-S77	9/22/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E5												
E5-S1 (SW)	8/21/2020		0.78 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.78	0.36 U	0.36 U
E5-S2 (SW)	8/21/2020		0.48 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.48	0.35 U	0.35 U
E5-S3 (SW)	8/21/2020		0.8 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.8	0.34 U	0.34 U
E5-S4 (SW)	8/21/2020		0.37 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.37	0.35 U	0.35 U
E5-S5 (SW)	8/21/2020		0.61 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.61	0.35 U	0.35 U
E5-S7 (SW)	8/21/2020		2.8 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.8	0.37 U	0.37 U
E5-S8 (SW)	8/21/2020		4.3 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	4.3	0.38 U	0.38 U
E5-S10 (SW)	8/21/2020		3.8 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.8	0.34 U	0.34 U
E5-S11 (SW)	8/21/2020		8.6 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.6	1.8 U	1.8 U
E5-S12 (SW)	8/21/2020		0.94 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.94	0.36 U	0.36 U
E5-S13 (SW)	8/21/2020		3.5 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.5	0.36 U	0.36 U
E5-S14 (SW)	8/21/2020		3.6 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6	1.8 U	1.8 U
E5-S15 (SW)	8/21/2020		5.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.4	1.8 U	1.8 U
E5-S16 (SW)	8/21/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E5-S17 (SW)	8/21/2020		2.2 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.2	1.8 U	1.8 U
E5-S18 (SW)	8/21/2020		3.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.8	0.35 U	0.35 U
E5-S19 (SW)	8/21/2020		7.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.7	1.8 U	1.8 U
E5-S20 (SW)	8/21/2020		3.3 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.3	0.36 U	0.36 U
E5-S21 (SW)	8/21/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E5-S22 (SW)	8/21/2020		3.5 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	3.5	0.38 U	0.38 U
E5-S23 (SW)	8/21/2020		2.5 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.5	0.36 U	0.36 U
E5-S25 (SW)	8/21/2020		4.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	4.2	0.35 U	0.35 U
E5-S26 (SW)	8/21/2020		0.39 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.39	0.35 U	0.35 U
E5-S27 (SW)	9/3/2020		1.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.5	0.37 U	0.37 U
E5-S28 (SW)	9/3/2020		1.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.5	0.37 U	0.37 U
E5-S31 (SW)	9/3/2020		2.2 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	2.2	0.38 U	0.38 U
E5-S33	9/3/2020		1.6 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.6	0.38 U	0.38 U
E5-S34	9/3/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E5-S35	9/3/2020		0.39 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.39	0.38 U	0.38 U
E5-S36	9/3/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E5-S37 (SW)	9/10/2020		1.9 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.9	0.35 U	0.35 U
E5-S38 (SW)	9/10/2020		6.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.7	1.8 U	1.8 U
E5-S40 (SW)	9/10/2020		3.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.5	0.37 U	0.37 U
E5-S41 (SW)	9/10/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E5-S42 (SW)	9/10/2020		2.3 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.3	0.37 U	0.37 U
E5-S43	9/10/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E5-S44	9/10/2020		4.4 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	4.4	0.37 U	0.37 U
E5-S45	9/10/2020		1.0 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.0	0.39 U	0.39 U
E5-S46 (SW)	9/15/2020		3.1 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	3.1	0.38 U	0.38 U
E5-S47 (SW)	9/15/2020		4.8 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	4.8	0.39 U	0.39 U

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
E6																						
E6-S1(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S2(SW)	8/24/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E6-S3(SW)	8/24/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E6-S4(SW)	8/24/2020		0.57	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.57		0.35 U		0.35 U	
E6-S5(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S6(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S7(SW)	8/24/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E6-S8(SW)	8/24/2020		1.2	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.2		0.34 U		0.34 U	
E6-S9(SW)	8/24/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E6-S10(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S11(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S12(SW)	8/24/2020		1.2	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.2		0.34 U		0.34 U	
E6-S13(SW)	8/24/2020		0.59	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.59		0.33 U		0.33 U	
E6-S14(SW)	8/24/2020		1.9	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.9		0.35 U		0.35 U	
E6-S15(SW)	8/24/2020		1.1	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		1.1		0.33 U		0.33 U	
E6-S16(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S17(SW)	8/24/2020		2.2	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.2		0.34 U		0.34 U	
E6-S18(SW)	8/24/2020		2.6	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.6		0.35 U		0.35 U	
E6-S19(SW)	8/24/2020		1.5	Y	0.84 U		0.84 U		0.84 U		0.84 U		0.84 U		0.84 U		1.5		0.84 U		0.84 U	
E6-S20(SW)	8/24/2020		2.1	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.1		0.36 U		0.36 U	
E6-S21(SW)	8/24/2020		1.1	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		1.1		0.33 U		0.33 U	
E6-S23(SW)	8/24/2020		0.71	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.71		0.34 U		0.34 U	
E6-S25(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S27(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S29(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S30(SW)	8/24/2020		4.6	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		4.6		0.37 U		0.37 U	
E6-S31(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S32(SW)	8/24/2020		1.8	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.8		1.7 U		1.7 U	
E6-S33(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S34(SW)	8/24/2020		5.8	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		5.8		1.7 U		1.7 U	
E6-S35(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S37(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S38(SW)	8/24/2020		3.7	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		3.7		1.7 U		1.7 U	
E6-S40(SW)	8/24/2020		0.54	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.54		0.34 U		0.34 U	
E6-S41(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S42(SW)	8/24/2020		2.0	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.0		0.34 U		0.34 U	
E6-S43(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S44(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S45(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S46(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S47(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S48(SW)	8/24/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E6-S49(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S50(SW)	8/24/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E6-S51(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S52(SW)	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S53(SW)	8/24/2020		3.1	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		3.1		0.34 U		0.34 U	
E6-S54(SW)	8/24/2020		0.35	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.35		0.34 U		0.34 U	
E6-S55(SW)	8/24/2020		6.1	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		6.1		1.7 U		1.7 U	
E6-S56(SW)	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S57	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S58	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S59	8/24/2020		4.4	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		4.4		0.35 U		0.35 U	
E6-S60	8/24/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E6-S61	8/24/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E6-S62	8/24/2020		1.7	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.7		0.34 U		0.34 U	
E6-S63	8/24/2020		1.5	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.5		0.35 U		0.35 U	
E6-S64	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S66	8/24/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E6-S67	8/24/2020		1.3	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.3		0.34 U		0.34 U	
E6-S68	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S69	8/24/2020		0.41	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.41		0.34 U		0.34 U	
E6-S70	8/24/2020		0.35	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.35		0.33 U		0.33 U	
E6-S71	8/24/2020		3.0	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		3.0		0.35 U		0.35 U	
E6-S72	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S73	8/24/2020		0.63	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.63		0.34 U		0.34 U	
E6-S74	8/24/2020		1.1	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.1		0.34 U		0.34 U	
E6-S75	8/24/2020		0.42	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.42		0.33 U		0.33 U	
E6-S76	8/24/2020		2.1	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.1		0.34 U		0.34 U	
E6-S77	8/24/2020		0.92	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.92		0.38 U		0.38 U	
E6-S78	8/24/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E6-S79	8/24/2020		1.4	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.4		0.35 U		0.35 U	
E6-S80	8/24/2020		0.99	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.99		0.35 U		0.35 U	
E6-S81	8/24/2020		0.81	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.81		0.34 U		0.34 U	
E6-S82	8/24/2020		2.5	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.5		0.34 U		0.34 U	
E6-S83	8/24/2020		0.88	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.88		0.34 U		0.34 U	
E6-S84	8/24/2020		2.0	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		2.0		1.7 U		1.7 U	
E6-S85	8/24/2020		0.65	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.65		0.34 U		0.34 U	
E6-S86	8/24/2020		9.6	Y	3.4 U		3.4 U		3.4 U		3.4 U		3.4 U		3.4 U		9.6		3.4 U		3.4 U	
E6-S87	8/24/2020		0.49	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.49		0.35 U		0.35 U	
E6-S88	8/24/2020		0.48	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.48		0.34 U		0.34 U	
E6-S89	8/24/2020		2.2	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		2.2		1.8 U		1.8 U	
E6-S90	8/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E6-S91	8/24/2020		1.3	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.3		0.34 U		0.34 U	
E6-S92	8/24/2020		0.93	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.93		0.34 U		0.34 U	
E6-S94	8/24/2020		2.3	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		2.3		1.8 U		1.8 U	
E6-S95	8/24/2020		4.9	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		4.9		1.7 U		1.7 U	
E6-S96 (SW)	9/1/2020		0.78	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.78		0.36 U		0.36 U	
E6-S97 (SW)	9/1/2020		5.3	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		5.3		1.8 U		1.8 U	
E6-S98 (SW)	9/1/2020		3.7	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		3.7		0.36 U		0.36 U	
E6-S101 (SW)	9/10/2020		0.62	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.62		0.35 U		0.35 U	
E6-S103 (SW)	9/10/2020		2.1	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.1		0.35 U		0.35 U	
E6-S105	9/10/2020		1.3	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.3		0.37 U		0.37 U	
E6-S106	9/10/2020		2.1	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.1		0.36 U		0.36 U	
E6-S107 (SW)	9/15/2020		0.45	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.45		0.34 U		0.34 U	
E6-S109 (SW)	9/15/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E6-S110 (SW)	9/15/2020		8.8	Y	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		8.8		2.0 U		2.0 U	
E6-S111	9/15/2020		6.6	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		6.6		1.9 U		1.9 U	
E6-S112 (SW)	9/17/2020		1.7	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.7		0.38 U		0.38 U	
E6-S114 (SW)	9/17/2020		0.83	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.83		0.37 U		0.37 U	
E6-S116	9/17/2020		8.7	Y	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		8.7		2.0 U		2.0 U	
E6-S117 (SW)	9/24/2020		2.9	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.9		0.34 U		0.34 U	
E6-S118 (SW)	9/24/2020		0.51	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.51		0.35 U		0.35 U	
E6-S119 (SW)	9/24/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E6-S121 (SW)	9/24/2020		0.68	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.68		0.34 U		0.34 U	
E6-S122 (SW)	9/24/2020		4.4	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		4.4		1.7 U		1.7 U	
E6-S123 (SW)	9/28/2020		1.1	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.1		0.37 U		0.37 U	
E6-S124 (SW)	9/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E7																						
E7-S1 (SW)	8/25/2020		2.8	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		2.8		0.41 U		0.41 U	
E7-S2 (SW)	8/25/2020		2.0	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		2.0		0.38 U		0.38 U	
E7-S3 (SW)	8/25/2020		1.4	Y	0.59 U		0.59 U		0.59 U		0.59 U		0.59 U		0.59 U		1.4		0.59 U		0.59 U	
E7-S4 (SW)	8/25/2020		1.2	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.2		0.37 U		0.37 U	
E7-S5 (SW)	8/25/2020		0.49 U	Y	0.49 U		0.49 U		0.49 U		0.49 U		0.49 U		0.49 U		0.49 U		0.49 U		0.49 U	
E7-S6 (SW)	8/25/2020		1.8	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.8		0.34 U		0.34 U	
E7-S7 (SW)	8/25/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E7-S8 (SW)	8/25/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E7-S10	8/25/2020		4.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		4.0		0.37 U		0.37 U	
E7-S11	8/25/2020		0.36	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.36		0.35 U		0.35 U	
E7-S12	8/25/2020		1.0	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.0		0.35 U		0.35 U	
E7-S13	8/25/2020		1.4	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.4		0.36 U		0.36 U	
E7-S14	8/25/2020		1.6	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.6		0.37 U		0.37 U	
E7-S15	8/25/2020		1.8	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		1.8		0.33 U		0.33 U	
E7-S16	8/25/2020		4.0	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		4.0		0.34 U		0.34 U	
E7-S17	8/25/2020		4.3	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		4.3		0.37 U		0.37 U	
E7-S18	8/25/2020		4.6	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		4.6		1.8 U		1.8 U	
E7-S19	8/25/2020		0.66	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.66		0.33 U		0.33 U	
E7-S20	8/25/2020		2.7	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.7		0.36 U		0.36 U	
E7-S21	8/25/2020		2.0	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.0		0.34 U		0.34 U	
E7-S22	9/3/2020		6.7	Y	2 U		2 U		2 U		2 U		2 U		2 U		6.7		2 U		2 U	
E7-S24	9/10/2020		1.6	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.6		0.37 U		0.37 U	
E8																						
E8-S3 (SW)	8/26/2020		4.5	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		4.5		1.8 U		1.8 U	
E8-S4 (SW)	8/26/2020		1.4	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.4		0.35 U		0.35 U	
E8-S5 (SW)	8/26/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E8-S6	8/26/2020		1.6	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.6		0.34 U		0.34 U	
E8-S7	8/26/2020		4.6	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		4.6		0.41 U		0.41 U	
E8-S8	8/26/2020		0.62	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.62		0.36 U		0.36 U	
E8-S9	8/26/2020		2.2	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.2		0.36 U		0.36 U	
E8-S10	8/26/2020		1.8	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.8		0.34 U		0.34 U	
E8-S11	8/26/2020		1.7	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.7		0.34 U		0.34 U	
E8-S12	8/26/2020		0.80	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.80		0.37 U		0.37 U	
E8-S13	8/26/2020		3.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		3.0		0.37 U		0.37 U	
E8-S14	8/26/2020		2.8	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		2.8		0.37 U		0.37 U	
E8-S15	8/26/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E8-S16	8/26/2020		1.5	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.5		0.34 U		0.34 U	
E8-S17	8/26/2020		7.0	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		7.0		1.8 U		1.8 U	
E8-S18	8/26/2020		5.0	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		5.0		1.8 U		1.8 U	
E8-S20	8/26/2020		1.6	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.6		0.36 U		0.36 U	
E8-S21	8/26/2020		0.83	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.83		0.38 U		0.38 U	
E8-S22	8/26/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E8-S23	8/26/2020		2.5	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.5		0.35 U		0.35 U	
E8-S24	8/26/2020		0.52	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.52		0.36 U		0.36 U	
E8-S25	8/26/2020		3.9	Y	1.8 U		1.8

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
E9																						
E9-S1	8/26/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E9-S2	8/26/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E9-S3	8/26/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E9-S4	8/26/2020		4.0	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		4.0		0.34 U		0.34 U	
E9-S5	8/26/2020		1.2	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.2		0.36 U		0.36 U	
E9-S6	8/26/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E9-S7	8/26/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E9-S8	8/26/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E9-S9	8/26/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E9-S10	8/26/2020		0.56	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.56		0.35 U		0.35 U	
E9-S11	8/26/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E9-S12	8/26/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E9-S13	8/26/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E9-S14	8/26/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E9-S15	8/26/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E9-S16	8/26/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E9-S17	8/26/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E9-S18	8/26/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E9-S19	8/26/2020		0.47	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.47		0.35 U		0.35 U	
E9-S20	8/26/2020		0.85	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.85		0.37 U		0.37 U	
E9-S21	8/26/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E9-S22	8/26/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E9-S23	8/26/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E9-S24	8/26/2020		0.81	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.81		0.35 U		0.35 U	
E9-S25	8/26/2020		0.80	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.80		0.36 U		0.36 U	
E10																						
E10-S1 (SW)	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S2 (SW)	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S3 (SW)	8/28/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E10-S4 (SW)	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S5 (SW)	8/28/2020		0.41 U	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U	
E10-S6 (SW)	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S7 (SW)	8/28/2020		0.49	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.49		0.38 U		0.38 U	
E10-S8 (SW)	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S9 (SW)	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S10 (SW)	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S11 (SW)	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S12 (SW)	8/28/2020		1.7	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.7		0.36 U		0.36 U	
E10-S13 (SW)	8/28/2020		1.7	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.7		0.38 U		0.38 U	
E10-S14 (SW)	8/28/2020		1.8	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		1.8		0.39 U		0.39 U	
E10-S15 (SW)	8/28/2020		1.9	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		1.9		0.39 U		0.39 U	
E10-S16 (SW)	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S17 (SW)	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S18 (SW)	8/28/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E10-S19 (SW)	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S20	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S21	8/28/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E10-S22	8/28/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E10-S23	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S24	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S25	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S26	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S27	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S28	8/28/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E10-S29	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S30	8/28/2020		0.42	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.42		0.39 U		0.39 U	
E10-S31	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S32	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S33	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S34	8/28/2020		0.58	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.58		0.37 U		0.37 U	
E10-S35	8/28/2020		0.54	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.54		0.37 U		0.37 U	
E10-S36	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S37	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S38	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S39	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S40	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S41	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S42	8/28/2020		0.86	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.86		0.38 U		0.38 U	
E10-S43	8/28/2020		1.6	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.6		0.37 U		0.37 U	
E10-S44	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S45	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S46	8/28/2020		1.1	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.1		0.37 U		0.37 U	
E10-S47	8/28/2020		1.3	Y	0.4 U		0.4 U		0.4 U		0.4 U		0.4 U		0.4 U		1.3		0.4 U		0.4 U	
E10-S48	8/28/2020		0.73	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.73		0.39 U		0.39 U	
E10-S49	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S50	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S51	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S52	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S53	8/28/2020		2.7	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		2.7		0.37 U		0.37 U	
E10-S54	8/28/2020		0.65	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.65		0.37 U		0.37 U	
E10-S55	8/28/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S56	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S57	8/28/2020		1.6	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		1.6		0.39 U		0.39 U	
E10-S58	8/28/2020		1.5	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		1.5		0.39 U		0.39 U	
E10-S59	8/28/2020		0.98	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.98		0.38 U		0.38 U	
E10-S60	8/28/2020		0.68	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.68		0.38 U		0.38 U	
E10-S61	8/28/2020		0.71	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.71		0.38 U		0.38 U	
E10-S62	8/28/2020		1.1	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.1		0.38 U		0.38 U	
E10-S63	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S64	8/28/2020		1.9	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.9		0.38 U		0.38 U	
E10-S66	8/28/2020		0.95	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.95		0.40 U		0.40 U	
E10-S67	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S68	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S69	8/28/2020		0.57	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.57		0.37 U		0.37 U	
E10-S71	8/28/2020		5.4	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		5.4		1.9 U		1.9 U	
E10-S72	8/28/2020		0.43	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.43		0.38 U		0.38 U	
E10-S73	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S74	8/28/2020		0.83	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.83		0.38 U		0.38 U	
E10-S75	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S78	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S79	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S80	8/28/2020		0.92	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.92		0.38 U		0.38 U	
E10-S81	8/28/2020		0.98	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.98		0.38 U		0.38 U	
E10-S82	8/28/2020		0.66	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.66		0.39 U		0.39 U	
E10-S83	8/28/2020		0.93	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.93		0.40 U		0.40 U	
E10-S85	8/28/2020		3.7	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		3.7		0.36 U		0.36 U	
E10-S86	8/28/2020		7.6	Y	2.1 U		2.1 U		2.1 U		2.1 U		2.1 U		2.1 U		7.6		2.1 U		2.1 U	
E10-S87	8/28/2020		0.53	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.53		0.37 U		0.37 U	
E10-S88	8/28/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S89	8/28/2020		0.39	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.39		0.38 U		0.38 U	
E10-S90	8/28/2020		1.2	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.2		0.38 U		0.38 U	
E10-S91	8/28/2020		0.78	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.78		0.38 U		0.38 U	
E10-S92	8/28/2020		7.7	Y	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		7.7		2.0 U		2.0 U	
E10-S93	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S94	8/28/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E10-S95	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S96	8/28/2020		0.52	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.52		0.40 U		0.40 U	
E10-S97	8/28/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E10-S98	8/28/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E10-S99	9/3/2020		0.97	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.97		0.40 U		0.40 U	
E10-S100	9/3/2020		2.4	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		2.4		0.39 U		0.39 U	
E10-S101	9/3/2020		7.3	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		7.3		1.9 U		1.9 U	
E10-S102	9/3/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S103	9/3/2020		0.58	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.58		0.37 U		0.37 U	
E10-S104	9/3/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E10-S105	9/3/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E10-S106	9/3/2020		0.55	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.55		0.36 U		0.36 U	
E10-S107	9/3/2020		2.4	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		2.4		1.8 U		1.8 U	
E10-S108	9/3/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E10-S109	9/3/2020		1.2	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.2		0.36 U		0.36 U	
E10-S110	9/3/2020		1.4	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.4		0.35 U		0.35 U	
E11																						
E11-S2 (SW)	8/31/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E11-S4 (SW)	8/31/2020		0.55	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.55		0.37 U		0.37 U	
E11-S5 (SW)	8/31/2020		4.9	Y	4.1 U		4.1 U		4.1 U		4.1 U		4.1 U		4.1 U		4.9		4.1 U		4.1 U	
E11-S6 (SW)	8/31/2020		0.86	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.86		0.37 U		0.37 U	
E11-S8 (SW)	8/31/2020		1.5	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.5		0.36 U		0.36 U	
E11-S10 (SW)	8/31/2020		0.47	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.47		0.35 U		0.35 U	
E11-S12 (SW)	8/31/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E11-S14 (SW)	8/31/2020		2.5	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.5		0.36 U		0.36 U	
E11-S17 (SW)	8/31/2020		1.1	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.1		0.34 U		0.34 U	
E11-S18 (SW)	8/31/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E11-S19 (SW)	8/31/2020		0.50	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.5		0.35 U		0.35 U	
E11-S20 (SW)	8/31/2020		4.1	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		4.1		1.7 U		1.7 U	
E11-S21 (SW)	8/31/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E11-S22 (SW)	8/31/2020		6.7	Y	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		6.7		1.7 U		1.7 U	
E11-S23 (SW)	8/31/2020		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E11-S24 (SW)	8/31/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E11-S25 (SW)	8/31/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E11-S26 (SW)	8/31/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E11-S27 (SW)	8/31/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E11-S28 (SW)	8/31/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E11-S29 (SW)	8/31/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E11-S30 (SW)	8/31/2020		0.37 U	Y	0.37 U		0.37 U	

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			R F	R F	R F	R F	R F	R F	R F	R F	R F	R F
I/C DEC (rev. 06-27-2013)		>	10									
Res. DEC (rev. 06-27-2013)		>	1									
E11-S51	8/31/2020		7.5 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	7.5	1.9 U	1.9 U
E11-S52	8/31/2020		2.0 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.0	0.37 U	0.37 U
E11-S53	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E11-S54	8/31/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E11-S55	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E11-S56	8/31/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E11-S57	8/31/2020		0.62 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.62	0.36 U	0.36 U
E11-S58	8/31/2020		1.8 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.8	0.36 U	0.36 U
E11-S59	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E11-S60	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E11-S61	8/31/2020		2.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.5	0.37 U	0.37 U
E11-S62	8/31/2020		2.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.4	1.8 U	1.8 U
E11-S63	8/31/2020		1.8 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.8	0.38 U	0.38 U
E11-S64	8/31/2020		4.0 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	4.0	0.37 U	0.37 U
E11-S65	8/31/2020		0.38 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.38	0.35 U	0.35 U
E11-S66	8/31/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E11-S67	8/31/2020		2.8 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.8	0.37 U	0.37 U
E11-S70	8/31/2020		7.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.4	1.8 U	1.8 U
E11-S71	8/31/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E11-S72	8/31/2020		1.9 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.9	0.36 U	0.36 U
E11-S73	8/31/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E11-S75	8/31/2020		5.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.7	1.8 U	1.8 U
E11-S76	8/31/2020		3.3 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3	1.7 U	1.7 U
E11-S77	8/31/2020		6.5 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.5	1.7 U	1.7 U
E11-S78	8/31/2020		4.3 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.3	1.8 U	1.8 U
E11-S79	8/31/2020		4.0 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	4.0	0.36 U	0.36 U
E11-S80	8/31/2020		8.0 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.0	1.7 U	1.7 U
E11-S81	8/31/2020		1.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.5	0.35 U	0.35 U
E11-S82	8/31/2020		0.96 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.96	0.34 U	0.34 U
E11-S83	8/31/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E11-S84	8/31/2020		7.1 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.1	1.8 U	1.8 U
E11-S85	8/31/2020		8.9 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9	1.9 U	1.9 U
E11-S86	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E11-S87	8/31/2020		0.82 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.82	0.34 U	0.34 U
E11-S88	8/31/2020		3.3 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.3	0.34 U	0.34 U
E11-S89	8/31/2020		6.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.4	1.8 U	1.8 U
E11-S90	8/31/2020		0.98 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.98	0.34 U	0.34 U
E11-S91	8/31/2020		5.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.9	1.8 U	1.8 U
E11-S92	8/31/2020		6.7 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	6.7	1.9 U	1.9 U
E11-S93	9/3/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E11-S94	9/3/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E11-S95	9/3/2020		1.4 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.4	0.37 U	0.37 U
E11-S96	9/3/2020		0.55 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.55	0.37 U	0.37 U
E11-S97 (SW)	9/10/2020		1.5 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.5	0.38 U	0.38 U
E11-S98 (SW)	9/10/2020		1.8 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.8	0.38 U	0.38 U
E11-S100 (SW)	9/10/2020		6.5 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.5	1.8 U	1.8 U
E11-S101 (SW)	9/10/2020		5.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.6	1.7 U	1.7 U
E11-S102 (SW)	9/10/2020		3.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.9	1.8 U	1.8 U
E11-S103 (SW)	9/10/2020		6.1 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.1	1.7 U	1.7 U
E11-S104 (SW)	9/10/2020		9.2 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.2	1.8 U	1.8 U
E11-S105	9/10/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E11-S106	9/10/2020		3.3 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.3	0.36 U	0.36 U
E11-S107	9/10/2020		2.7 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.7	0.36 U	0.36 U
E11-S108	9/10/2020		0.38 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38	0.36 U	0.36 U
E11-S110	9/10/2020		0.81 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.81	0.36 U	0.36 U
E11-S111	9/10/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E11-S112	9/10/2020		3.0 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.0	0.35 U	0.35 U
E11-S113	9/10/2020		0.53 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.53	0.36 U	0.36 U
E11-S114	9/10/2020		0.87 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.87	0.35 U	0.35 U
E11-S115	9/10/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E11-S116 (SW)	9/15/2020		8.0 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.0	1.8 U	1.8 U
E11-S117 (SW)	9/15/2020		9.1 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.1	1.8 U	1.8 U
E11-S119	9/17/2020		9.1 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.1	1.8 U	1.8 U
E12												
E12-S1 (SW)	8/31/2020		0.46 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.46	0.34 U	0.34 U
E12-S2 (SW)	8/31/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E12-S3 (SW)	8/31/2020		1.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.1	0.35 U	0.35 U
E12-S4 (SW)	8/31/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E12-S5 (SW)	8/31/2020		0.48 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.48	0.33 U	0.33 U
E12-S6 (SW)	8/31/2020		5.2 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.2	1.7 U	1.7 U
E12-S7 (SW)	8/31/2020		1.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.6	0.35 U	0.35 U
E12-S8 (SW)	8/31/2020		4.2 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.2	1.7 U	1.7 U
E12-S9 (SW)	8/31/2020		1.6 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.6	0.34 U	0.34 U
E12-S11 (SW)	8/31/2020		3.0 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.0	0.34 U	0.34 U
E12-S12 (SW)	8/31/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E12-S13 (SW)	8/31/2020		1.7 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7	0.33 U	0.33 U
E12-S14 (SW)	8/31/2020		1.3 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.3	0.35 U	0.35 U
E12-S15 (SW)	8/31/2020		3.9 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.9	0.34 U	0.34 U
E12-S16 (SW)	8/31/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E12-S17 (SW)	8/31/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E12-S18 (SW)	8/31/2020		3.7 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.7	0.35 U	0.35 U
E12-S19 (SW)	8/31/2020		0.69 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.69	0.35 U	0.35 U
E12-S20	8/31/2020		2.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.1	0.35 U	0.35 U
E12-S21	8/31/2020		0.59 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.59	0.39 U	0.39 U
E12-S22	8/31/2020		5.7 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5.7	1.9 U	1.9 U
E12-S23	8/31/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E12-S24	8/31/2020		0.54 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.54	0.34 U	0.34 U
E12-S25	8/31/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E12-S26	8/31/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E12-S27	8/31/2020		2.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.7	0.34 U	0.34 U
E12-S28	8/31/2020		5.2 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.2	1.8 U	1.8 U
E12-S29	8/31/2020		0.97 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.97	0.34 U	0.34 U
E12-S30	8/31/2020		0.57 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.57	0.35 U	0.35 U
E12-S31	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S32	8/31/2020		1.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.1	0.34 U	0.34 U
E12-S33	8/31/2020		1.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.7	0.34 U	0.34 U
E12-S34	8/31/2020		6.0 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.0	1.8 U	1.8 U
E12-S35	8/31/2020		0.87 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.87	0.34 U	0.34 U
E12-S36	8/31/2020		0.59 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.59	0.35 U	0.35 U
E12-S37	8/31/2020		3.7 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.7	0.35 U	0.35 U
E12-S38	8/31/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E12-S39	8/31/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E12-S40	8/31/2020		3.0 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.0	0.34 U	0.34 U
E12-S41	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S42	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S43	8/31/2020		1.9 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.9	0.36 U	0.36 U
E12-S44	8/31/2020		5.9 Y	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	5.9	1.6 U	1.6 U
E12-S45	8/31/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S46	8/31/2020		0.83 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.83	0.36 U	0.36 U
E12-S47	8/31/2020		8.3 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.3	1.8 U	1.8 U
E12-S48	8/31/2020		6.1 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.1	1.8 U	1.8 U
E12-S49	8/31/2020		2.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.1	0.36 U	0.36 U
E12-S50	8/31/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E12-S51	8/31/2020		1.5 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.5	0.38 U	0.38 U
E12-S52	8/31/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E12-S53	8/31/2020		1.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.2	0.36 U	0.36 U
E12-S54 (SW)	9/18/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S55 (SW)	9/18/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S56 (SW)	9/18/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S57 (SW)	9/18/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S58 (SW)	9/18/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S59 (SW)	9/18/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E12-S60 (SW)	9/18/2020		0.65 Y	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.65	0.4 U	0.4 U
E12-S61 (SW)	9/18/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E12-S62 (SW)	9/18/2020		7.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.9	1.8 U	1.8 U
E12-S63 (SW)	9/18/2020		2.1 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.1	0.37 U	0.37 U
E12-S64 (SW)	9/18/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E12-S65 (SW)	9/18/2020		1.3 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.3	0.35 U	0.35 U
E12-S66 (SW)	9/18/2020		0.81 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.81	0.34 U	0.34 U
E12-S67 (SW)	9/18/2020		1.8 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.8	0.36 U	0.36 U
E12-S68 (SW)	9/18/2020		0.99 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.99	0.35 U	0.35 U
E12-S69 (SW)	9/18/2020		0.60 Y	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.60	0.42 U	0.42 U
E12-S70 (SW)	9/18/2020		2.9 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.9	0.37 U	0.37 U
E12-S71 (SW)	9/18/2020		4.3 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.3	1.8 U	1.8 U
E12-S72	9/18/2020		0.62 Y	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.62	0.4 U	0.4 U
E12-S73	9/18/2020		3.5 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	3.5	0.39 U	0.39 U
E12-S74	9/18/2020		1.5 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.5	0.36 U	0.36 U
E12-S75	9/18/2020		0.62 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.62	0.34 U	0.34 U
E12-S76	9/18/2020		2.3 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	2.3	0.39 U	0.39 U
E12-S77	9/18/2020		1.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.4	0.34 U	0.34 U
E12-S78	9/18/2020		0.48 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.48	0.34 U	0.34 U
E12-S79	9/18/2020		1.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.1	0.36 U	0.36 U
E12-S80	9/18/2020		1.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.4	0.34 U	0.34 U
E12-S81	9/18/2020		1.5 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.5	0.38 U	0.38 U
E12-S82	9/18/2020		4.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.9	1.8 U	1.8 U
E12-S83	9/18/2020		1.9 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.9	0.36 U	0.36 U
E12-S84	9/18/2020		1.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.4	0.36 U	0.36 U
E12-S85	9/18/2020		3.2 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.2	0.34 U	0.34 U
E12-S86	9/18/2020		3.3 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.3	0.36 U	0.36 U
E12-S87	9/18/2020		3.4 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.4	0.37 U	0.37 U
E12-S88	9/18/2020		5.5 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5.5	1.9 U	1.9 U
E12-S89	9/18/2020		3.1 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.1	1.9 U	1.9 U
E12-S90	9/18/2020		1.2 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.2	0.38 U	0.38 U
E12-S91	9/18/2020		2.6 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.6	0.36 U	0.36 U
E12-S92	9/18/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E12-S93	9/18/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E12-S94	9/18/2020		0.80 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.80	0.37 U	0.37 U
E12-S95	9/18/2020		0.40 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.40	0.36 U	0.36 U
E12-S96	9/18/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E12-S97	9/18/2020		1.6 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.6	0.37 U	0.37 U
E12-S98	9/18/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E12-S99	9/18/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E12-S100	9/18/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E12-S101	9/18/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E12-S102	9/18/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E12-S103	9/18/2020		1.0 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.0	0.38 U	0.38 U
E12-S104	9/18/2020		2.1 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.1	0.33 U	0.33 U
E12-S105 (SW)	9/18/2020		2 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2	0.34 U	0.34 U
E12-S106 (SW)	9/18/2020		2.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.7	0.34 U	0.34 U
E13												
E13-S1 (SW)	9/3/2020		0.42 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.42	0.34 U	0.34 U
E13-S2 (SW)	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			R F	R F	R F	R F	R F	R F	R F	R F	R F	R F
I/C DEC (rev. 06-27-2013)		>	10									
Res. DEC (rev. 06-27-2013)		>	1									
E13-S6 (SW)	9/3/2020		0.41 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.41	0.39 U	0.39 U
E13-S8 (SW)	9/3/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E13-S9 (SW)	9/3/2020		0.85 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.85	0.39 U	0.39 U
E13-S10 (SW)	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E13-S11 (SW)	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S12 (SW)	9/3/2020		1.9 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.9	0.39 U	0.39 U
E13-S13 (SW)	9/3/2020		1.0 Y	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.0	0.43 U	0.43 U
E13-S14 (SW)	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E13-S15 (SW)	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S16 (SW)	9/3/2020		5.0 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	5.0	0.39 U	0.39 U
E13-S17 (SW)	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E13-S18 (SW)	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S19 (SW)	9/3/2020		3.4 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.4	0.37 U	0.37 U
E13-S20 (SW)	9/3/2020		0.70 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.70	0.34 U	0.34 U
E13-S21	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S22	9/3/2020		0.42 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.42	0.39 U	0.39 U
E13-S23	9/3/2020		0.45 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.45	0.38 U	0.38 U
E13-S24	9/3/2020		0.89 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.89	0.39 U	0.39 U
E13-S25	9/3/2020		2.3 Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	2.3	0.40 U	0.40 U
E13-S26	9/3/2020		0.41 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.41	0.39 U	0.39 U
E13-S27	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S28	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E13-S29	9/3/2020		0.75 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.75	0.39 U	0.39 U
E13-S30	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S31	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S32	9/3/2020		0.71 Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.71	0.40 U	0.40 U
E13-S33	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S34	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S35	9/3/2020		0.50 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.50	0.39 U	0.39 U
E13-S36	9/3/2020		3.2 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	3.2	0.38 U	0.38 U
E13-S37	9/3/2020		3.3 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	3.3	0.38 U	0.38 U
E13-S38	9/3/2020		0.73 Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.73	0.40 U	0.40 U
E13-S39	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S40	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S41	9/3/2020		3.6 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	3.6	0.39 U	0.39 U
E13-S42	9/3/2020		4.4 Y	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.4	2.0 U	2.0 U
E13-S43	9/3/2020		9.1 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.1	1.9 U	1.9 U
E13-S44	9/3/2020		0.69 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.69	0.39 U	0.39 U
E13-S45	9/3/2020		1.3 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.3	0.38 U	0.38 U
E13-S46	9/3/2020		2.9 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	2.9	0.39 U	0.39 U
E13-S47	9/3/2020		1.8 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.8	0.38 U	0.38 U
E13-S48	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E13-S49	9/3/2020		0.79 Y	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.79	0.41 U	0.41 U
E13-S50	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E13-S51	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S52	9/3/2020		0.43 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.43	0.39 U	0.39 U
E13-S53	9/3/2020		4.0 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	4.0	0.39 U	0.39 U
E13-S54	9/3/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E13-S55	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S56	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S57	9/3/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E13-S58	9/3/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E13-S59	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S60	9/3/2020		0.43 U, Y	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
E13-S61	9/3/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E13-S62 (SW)	9/10/2020		3.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.1	0.35 U	0.35 U
E13-S63	9/10/2020		3.0 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.0	0.36 U	0.36 U
E14												
E14-S2 (SW)	9/11/2020		8.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.4	1.8 U	1.8 U
E14-S3 (SW)	9/11/2020		7.3 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.3	1.8 U	1.8 U
E14-S4 (SW)	9/11/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E14-S5 (SW)	9/11/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E14-S6 (SW)	9/11/2020		0.72 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.72	0.34 U	0.34 U
E14-S7 (SW)	9/11/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E14-S8 (SW)	9/11/2020		0.85 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.85	0.34 U	0.34 U
E14-S9 (SW)	9/11/2020		1.5 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.5	0.34 U	0.34 U
E14-S10 (SW)	9/11/2020		1.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.2	0.35 U	0.35 U
E14-S11 (SW)	9/11/2020		1.9 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.9	0.37 U	0.37 U
E14-S12 (SW)	9/11/2020		2.0 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.0	0.35 U	0.35 U
E14-S13 (SW)	9/11/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E14-S14 (SW)	9/11/2020		0.96 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.96	0.38 U	0.38 U
E14-S15 (SW)	9/11/2020		0.41 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.41	0.38 U	0.38 U
E14-S16 (SW)	9/11/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E14-S17 (SW)	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S18	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S19	9/11/2020		1.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.1	0.36 U	0.36 U
E14-S20	9/11/2020		1.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.4	0.36 U	0.36 U
E14-S28	9/11/2020		7.6 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.6	1.8 U	1.8 U
E14-S29	9/11/2020		8.0 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.0	1.8 U	1.8 U
E14-S30	9/11/2020		3.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.1	0.36 U	0.36 U
E14-S31	9/11/2020		3.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.1	0.36 U	0.36 U
E14-S32	9/11/2020		2.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.2	0.36 U	0.36 U
E14-S33	9/11/2020		1.7 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.7	0.35 U	0.35 U
E14-S36	9/11/2020		7.5 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.5	1.8 U	1.8 U
E14-S37	9/11/2020		1.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.2	0.36 U	0.36 U
E14-S38	9/11/2020		0.94 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.94	0.33 U	0.33 U
E14-S39	9/11/2020		0.86 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.86	0.34 U	0.34 U
E14-S40	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S41	9/11/2020		0.57 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.57	0.36 U	0.36 U
E14-S42	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S43	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S44	9/11/2020		0.48 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.48	0.36 U	0.36 U
E14-S45	9/11/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E14-S46	9/11/2020		2.3 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.3	0.37 U	0.37 U
E14-S47	9/11/2020		2.9 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.9	0.36 U	0.36 U
E14-S48	9/11/2020		1.9 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.9	0.36 U	0.36 U
E14-S49	9/11/2020		3.4 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.4	0.35 U	0.35 U
E14-S50	9/11/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E14-S51	9/11/2020		1.8 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.8	0.37 U	0.37 U
E14-S52	9/11/2020		3.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.9	1.8 U	1.8 U
E14-S53	9/11/2020		3.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.5	0.37 U	0.37 U
E14-S54	9/11/2020		9.6 Y	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	9.6	3.7 U	3.7 U
E14-S55	9/11/2020		2.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.1	0.35 U	0.35 U
E14-S56	9/11/2020		0.71 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.71	0.35 U	0.35 U
E14-S57	9/11/2020		1.8 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.8	0.36 U	0.36 U
E14-S58	9/11/2020		1.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.2	0.35 U	0.35 U
E14-S59	9/11/2020		1.6 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.6	0.36 U	0.36 U
E14-S60	9/11/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E14-S61	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S62	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S63	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S64	9/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E14-S65	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S66	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S67	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S68	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S69	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S70	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S71	9/11/2020		0.43 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.43	0.36 U	0.36 U
E14-S72	9/11/2020		0.87 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.87	0.36 U	0.36 U
E14-S73	9/11/2020		1.3 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.3	0.36 U	0.36 U
E14-S74	9/11/2020		2.6 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.6	0.36 U	0.36 U
E14-S75	9/11/2020		3.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.2	0.35 U	0.35 U
E14-S76	9/11/2020		2.8 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.8	0.36 U	0.36 U
E14-S77	9/11/2020		4.7 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	4.7	1.9 U	1.9 U
E14-S78	9/11/2020		2.2 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.2	0.37 U	0.37 U
E14-S79	9/11/2020		7.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.4	1.8 U	1.8 U
E14-S80	9/11/2020		1.6 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.6	0.37 U	0.37 U
E14-S81	9/11/2020		1.5 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.5	0.36 U	0.36 U
E14-S82	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S83	9/11/2020		0.77 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.77	0.37 U	0.37 U
E14-S84	9/11/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E14-S85	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S86	9/11/2020		0.38 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38	0.36 U	0.36 U
E14-S87	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S88	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S89	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S90	9/11/2020		0.63 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.63	0.33 U	0.33 U
E14-S91	9/11/2020		0.38 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38	0.38 U	0.38 U
E14-S92	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S93	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S94	9/11/2020		0.49 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.49	0.36 U	0.36 U
E14-S95	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S96	9/11/2020		0.86 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.86	0.37 U	0.37 U
E14-S97	9/11/2020		1.1 Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	1.1	0.40 U	0.40 U
E14-S98	9/11/2020		3.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.2	0.36 U	0.36 U
E14-S99	9/11/2020		1.0 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.0	0.38 U	0.38 U
E14-S100	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S101	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S102	9/11/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E14-S103	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S104	9/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E14-S105	9/11/2020		1.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.2	0.36 U	0.36 U
E14-S106	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S107	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S108	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S109	9/11/2020		1.7 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.7	0.35 U	0.35 U
E14-S110	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S111	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S112	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S113	9/11/2020		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E14-S114	9/11/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E14-S115	9/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E14-S116	9/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E14-S117	9/11/2020		0.41 U, Y	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
E14-S118	9/11/2020		0.67 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.67	0.35 U	0.35 U

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			R F	R F	R F	R F	R F	R F	R F	R F	R F	R F
I/C DEC (rev. 06-27-2013)		>	10									
Res. DEC (rev. 06-27-2013)		>	1									
E14-S119	9/11/2020		0.39 U, Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
E14-S120	9/11/2020		0.40 U, Y	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
E14-S121	9/11/2020		1.5 Y	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.5	0.39 U	0.39 U
E14-S122	9/11/2020		0.43 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.43	0.38 U	0.38 U
E14-S123	9/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E14-S124	9/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E14-S125	9/11/2020		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E14-S126	9/15/2020		5.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.4	1.8 U	1.8 U
E14-S127	9/15/2020		6.6 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.6	1.8 U	1.8 U
E14-S128	9/15/2020		2.9 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.9	1.7 U	1.7 U
E14-S130	9/18/2020		9.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.9	1.8 U	1.8 U
E14-S131	9/18/2020		3.4 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.4	0.35 U	0.35 U
E14-S132	9/18/2020		5.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.6	1.7 U	1.7 U
E14-S133	9/18/2020		1.6 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.6	0.34 U	0.34 U
E14-S134	9/18/2020		9.8 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.8	1.9 U	1.9 U
E14-S137	9/18/2020		4.9 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.9	1.8 U	1.8 U
E14-S138	9/18/2020		1.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.8	0.35 U	0.35 U
E14-S139 (SW)	9/18/2020		3.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.6	0.35 U	0.35 U
E14-S141	9/22/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E14-S142	9/22/2020		3 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3	0.34 U	0.34 U
E14-S143	9/22/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E14-S144	9/22/2020		0.95 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.95	0.35 U	0.35 U
E14-S145	9/22/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E14-S146	9/22/2020		9.3 Y	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	9.3	3.5 U	3.5 U
E14-S147	9/22/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E14-S148	9/22/2020		0.79 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.79	0.37 U	0.37 U
E14-S149(SW)	9/22/2020		1.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.7	0.34 U	0.34 U
E14-S150(SW)	9/22/2020		0.62 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.62	0.36 U	0.36 U
E15												
E15-S1 (SW)	9/14/2020		6.0 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.0	1.7 U	1.7 U
E15-S2 (SW)	9/14/2020		2.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.7	0.34 U	0.34 U
E15-S4 (SW)	9/14/2020		1.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.1	0.34 U	0.34 U
E15-S5 (SW)	9/14/2020		5.8 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.8	1.7 U	1.7 U
E15-S6 (SW)	9/14/2020		2.7 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.7	0.33 U	0.33 U
E15-S7 (SW)	9/14/2020		6.4 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.4	1.7 U	1.7 U
E15-S8 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S9 (SW)	9/14/2020		3.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.1	0.34 U	0.34 U
E15-S10 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S12 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S13 (SW)	9/14/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E15-S14 (SW)	9/14/2020		1.3 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.3	0.34 U	0.34 U
E15-S15 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S16 (SW)	9/14/2020		3.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4	0.34 U	0.34 U
E15-S17 (SW)	9/14/2020		2.7 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.7	0.33 U	0.33 U
E15-S18 (SW)	9/14/2020		3.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.2	0.35 U	0.35 U
E15-S19 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S21 (SW)	9/14/2020		1.8 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.8	0.34 U	0.34 U
E15-S22 (SW)	9/14/2020		9.6 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	9.6	1.7 U	1.7 U
E15-S23 (SW)	9/14/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E15-S24 (SW)	9/14/2020		6.2 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.2	1.7 U	1.7 U
E15-S25 (SW)	9/14/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E15-S27 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S28 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S29 (SW)	9/14/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E15-S30 (SW)	9/14/2020		0.43 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.43	0.33 U	0.33 U
E15-S31 (SW)	9/14/2020		0.56 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.56	0.33 U	0.33 U
E15-S32 (SW)	9/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E15-S33 (SW)	9/14/2020		3.1 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3.1	0.33 U	0.33 U
E15-S34 (SW)	9/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E15-S35 (SW)	9/14/2020		0.48 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.48	0.33 U	0.33 U
E15-S36 (SW)	9/14/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S37 (SW)	9/14/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E15-S38 (SW)	9/14/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E15-S39 (SW)	9/14/2020		1.0 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.0	0.33 U	0.33 U
E15-S40 (SW)	9/14/2020		1.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.4	0.34 U	0.34 U
E15-S41 (SW)	9/14/2020		7.5 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.5	1.7 U	1.7 U
E15-S42 (SW)	9/14/2020		3.8 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.8	0.34 U	0.34 U
E15-S43 (SW)	9/14/2020		8.7 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.7	1.7 U	1.7 U
E15-S44 (SW)	9/14/2020		5.9 Y	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	5.9	1.6 U	1.6 U
E15-S46 (SW)	9/14/2020		9.2 Y	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	9.2	1.6 U	1.6 U
E15-S47 (SW)	9/14/2020		2.8 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.8	0.33 U	0.33 U
E15-S48 (SW)	9/14/2020		0.40 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.40	0.35 U	0.35 U
E15-S49 (SW)	9/14/2020		9.0 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	9.0	1.7 U	1.7 U
E15-S50 (SW)	9/14/2020		2.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.5	0.35 U	0.35 U
E15-S51 (SW)	9/14/2020		3.5 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.5	0.34 U	0.34 U
E15-S52 (SW)	9/14/2020		1.2 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.2	0.34 U	0.34 U
E15-S53	9/14/2020		1.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.1	0.34 U	0.34 U
E15-S54	9/14/2020		1.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.6	0.35 U	0.35 U
E15-S55	9/14/2020		0.96 Y	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.96	0.41 U	0.41 U
E15-S56	9/14/2020		0.49 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.49	0.34 U	0.34 U
E15-S57	9/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E15-S58	9/14/2020		0.67 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67	0.33 U	0.33 U
E15-S59	9/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E15-S60	9/14/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E15-S61	9/14/2020		3.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.5	0.35 U	0.35 U
E15-S62	9/14/2020		2.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.5	0.35 U	0.35 U
E15-S63	9/14/2020		1.3 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.3	0.34 U	0.34 U	0.34 U
E15-S64	9/14/2020		0.86 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.86	0.36 U	0.36 U
E15-S65	9/14/2020		5.8 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.8	1.7 U	1.7 U
E15-S66	9/14/2020		6.3 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.3	1.7 U	1.7 U
E15-S67	9/14/2020		2.0 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.0	0.34 U	0.34 U
E15-S68	9/14/2020		2.5 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.5	0.34 U	0.34 U
E15-S69	9/14/2020		7.2 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	7.2	1.7 U	1.7 U
E15-S70	9/14/2020		8.4 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.4	1.7 U	1.7 U
E15-S71	9/14/2020		5.1 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.1	1.7 U	1.7 U
E15-S72	9/14/2020		6.1 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	6.1	1.8 U	1.8 U
E15-S74	9/14/2020		4.2 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	4.2	0.34 U	0.34 U
E15-S75	9/14/2020		0.69 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.69	0.34 U	0.34 U
E15-S76	9/14/2020		2.5 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.5	0.34 U	0.34 U
E15-S77	9/14/2020		1.7 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.7	0.35 U	0.35 U
E15-S78	9/14/2020		2.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.7	0.34 U	0.34 U
E15-S79	9/14/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E15-S80	9/14/2020		7.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.7	1.8 U	1.8 U
E15-S81	9/14/2020		2.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.4	0.36 U	0.36 U
E15-S82	9/14/2020		0.78 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.78	0.35 U	0.35 U
E15-S83	9/14/2020		2.3 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.3	0.34 U	0.34 U
E15-S84	9/14/2020		0.65 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.65	0.35 U	0.35 U
E15-S85	9/14/2020		0.50 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.50	0.35 U	0.35 U
E15-S86	9/14/2020		0.62 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.62	0.35 U	0.35 U
E15-S87	9/14/2020		0.96 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.96	0.34 U	0.34 U
E15-S88	9/14/2020		2.3 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.3	0.35 U	0.35 U
E15-S89	9/14/2020		3.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.2	0.35 U	0.35 U
E15-S90	9/14/2020		0.53 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.53	0.35 U	0.35 U
E15-S91	9/14/2020		1.2 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.2	0.35 U	0.35 U
E15-S93 (SW)	9/17/2020		9.7 Y	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	9.7	1.7 U	1.7 U
E15-S94 (SW)	9/17/2020		2.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.4	0.34 U	0.34 U
E15-S95 (SW)	9/17/2020		3.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.8	0.35 U	0.35 U
E15-S96	9/17/2020		5.4 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.4	1.8 U	1.8 U
E15-S97	9/17/2020		0.67 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.67	0.34 U	0.34 U
E15-S98 (SW)	9/17/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S100 (SW)	9/17/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E15-S101 (SW)	9/17/2020		3.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.7	0.34 U	0.34 U
E15-S102 (SW)	9/17/2020		3.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.6	0.35 U	0.35 U
E15-S103 (SW)	9/17/2020		0.62 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.62	0.35 U	0.35 U
E15-S104	9/17/2020		5.8 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	5.8	1.8 U	1.8 U
E15-S105	9/17/2020		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E15-S106	9/17/2020		4.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	4.1	0.36 U	0.36 U
E15-S107	9/17/2020		1.4 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.4	0.37 U	0.37 U
E15-S108	9/17/2020		1.7 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.7	0.37 U	0.37 U
E15-S109(SW)	9/22/2020		0.82 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.82	0.35 U	0.35 U
E15-S110(SW)	9/22/2020		0.71 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.71	0.36 U	0.36 U
E15-S111(SW)	9/22/2020		7.7 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.7	1.8 U	1.8 U
E15-S112(SW)	9/22/2020		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E15-S113	9/22/2020		3.6 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.6	0.36 U	0.36 U
E15-S114(SW)	9/22/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E15-S115(SW)	9/22/2020		1.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.1	0.35 U	0.35 U
E15-S116	9/22/2020		2.5 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.5	0.36 U	0.36 U
E16												
E16-S1	10/7/2020		2.3 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.3	0.35 U	0.35 U
E16-S2	10/7/2020		5.9 Y	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.9	2.1 U	2.1 U
E16-S3	10/7/2020		1.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.4	0.34 U	0.34 U
E16-S4	10/7/2020		0.59 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.59	0.34 U	0.34 U
E16-S5	10/7/2020		0.59 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.59	0.34 U	0.34 U
E16-S6	10/7/2020		1.7 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.7	0.34 U	0.34 U
E16-S7	10/7/2020		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E16-S8	10/7/2020		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E16-S9	10/7/2020		2.4 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.4	0.35 U	0.35 U
E16-S10	10/7/2020		1.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.8	0.35 U	0.35 U
E16-S11	10/7/2020		0.45 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.45	0.34 U	0.34 U
E16-S12	10/7/2020		0.44 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.44	0.34 U	0.34 U
E16-S13	10/7/2020		0.55 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.55	0.34 U	0.34 U
E16-S14	10/7/2020		1.2 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.2	0.33 U	0.33 U
E16-S15	10/7/2020		1.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.1	0.34 U	0.34 U
E16-S16	10/7/2020		2.5 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.5	0.34 U	0.34 U
E16-S17	10/7/2020		2.2 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	2.2	0.34 U	0.34 U
E16-S18	10/7/2020		1.9 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.9	0.34 U	0.34 U
E16-S19	10/7/2020		2.8 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.8	0.35 U	0.35 U
E16-S20	10/7/2020		1.4 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.4	0.33 U	0.33 U
E16-S21	10/7/2020		0.86 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.86	0.34 U	0.34 U
E16-S22	10/7/2020		1.1 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.1	0.34 U	0.34 U
E16-S23	10/7/2020		3.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.1	0.36 U	0.36 U
E16-S24	10/7/2020		4.1 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	4.1	0.33 U	0.33 U
E16-S25	10/7/2020		1.4 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.4	0.34 U	0.34 U
E16-S26	10/7/2020		1.4 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.4	0.33 U	0.33 U
E16-S27	10/7/2020		1.9 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.9	0.34 U	0.34 U
E16-S28	10/7/2020		2.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.5	0.35 U	0.35 U
E16-S29	4/6/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E16-S31	4/6/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E16-S33	4/6/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E16-S35	5/7/2021		1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1	0.35 U	0.35 U
E16-S36	5/7/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E16-S37	5/7/2021		0.99 Y	0.35 U	0.35 U	0.35 U	0

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
E17																						
E17-S1(SW)	10/8/2020		5.9	Y	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	5.9		1.7	U	1.7	U
E17-S2(SW)	10/8/2020		4.7	Y	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.7		1.7	U	1.7	U
E17-S3(SW)	10/8/2020		2.7	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	2.7		0.34	U	0.34	U
E17-S4(SW)	10/8/2020		9.7	Y	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	9.7		1.7	U	1.7	U
E17-S5(SW)	10/8/2020		9.5	Y	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	9.5		1.7	U	1.7	U
E17-S6(SW)	10/8/2020		6.2	Y	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	6.2		1.8	U	1.8	U
E17-S7(SW)	10/8/2020		1.9	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.9		0.34	U	0.34	U
E17-S8(SW)	10/8/2020		1.7	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.7		0.34	U	0.34	U
E17-S9(SW)	10/8/2020		1.2	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.2		0.34	U	0.34	U
E17-S11(SW)	10/8/2020		0.65	Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.65		0.33	U	0.33	U
E17-S12(SW)	10/8/2020		0.50	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.50		0.34	U	0.34	U
E17-S13(SW)	10/8/2020		0.33	U, Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
E17-S14(SW)	10/8/2020		0.84	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.84		0.37	U	0.37	U
E17-S15	10/8/2020		2.7	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	2.7		0.36	U	0.36	U
E17-S16	10/8/2020		3.4	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	3.4		0.34	U	0.34	U
E17-S17	10/8/2020		1.4	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	1.4		0.35	U	0.35	U
E17-S18	10/8/2020		2.1	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	2.1		0.35	U	0.35	U
E17-S19	10/8/2020		2.8	Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	2.8		0.33	U	0.33	U
E17-S20	10/8/2020		1.2	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	1.2		0.35	U	0.35	U
E17-S21	10/8/2020		1.3	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.3		0.34	U	0.34	U
E17-S22	10/8/2020		0.90	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.90		0.34	U	0.34	U
E17-S23	10/8/2020		1.2	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.2		0.34	U	0.34	U
E17-S24	10/8/2020		1.0	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.0		0.34	U	0.34	U
E17-S25	10/8/2020		2.5	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	2.5		0.34	U	0.34	U
E17-S26	10/8/2020		0.39	Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.39		0.33	U	0.33	U
E17-S27	10/8/2020		7.2	Y	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	7.2		1.7	U	1.7	U
E17-S28	10/8/2020		2.2	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	2.2		0.35	U	0.35	U
E17-S29	10/8/2020		2.7	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	2.7		0.34	U	0.34	U
E17-S30	10/8/2020		1.0	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	1.0		0.35	U	0.35	U
E17-S31	10/8/2020		3.6	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	3.6		0.34	U	0.34	U
E17-S32	10/8/2020		2.0	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	2.0		0.35	U	0.35	U
E17-S33	10/8/2020		1.4	Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	1.4		0.33	U	0.33	U
E17-S34	10/8/2020		0.58	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.58		0.35	U	0.35	U
E17-S37	10/8/2020		0.39	U, Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U
E17-S38	10/8/2020		1.2	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	1.2		0.36	U	0.36	U
E17-S39	10/8/2020		8.1	Y	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	8.1		1.8	U	1.8	U
E17-S40	10/8/2020		3.0	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	3.0		0.35	U	0.35	U
E17-S41	10/8/2020		0.37	U, Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
E17-S42	10/8/2020		0.43	U, Y	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
E17-S43	10/8/2020		4.2	Y	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.2		1.7	U	1.7	U
E17-S44	10/8/2020		1.6	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	1.6		0.36	U	0.36	U
E17-S45	10/8/2020		0.36	U, Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
E17-S47	10/8/2020		2.0	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	2.0		0.35	U	0.35	U
E17-S49 (SW)	10/14/2020		0.62	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.62		0.38	U	0.38	U
E17-S50 (SW)	10/14/2020		0.37	U, Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
E17-S51 (SW)	10/14/2020		2.8	Y	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	2.8		0.41	U	0.41	U
E17-S52 (SW)	10/14/2020		1.7	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.7		0.34	U	0.34	U
E17-S53	10/14/2020		1.7	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	1.7		0.37	U	0.37	U
E17-S54	10/14/2020		0.76	Y	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.76		0.41	U	0.41	U
E17-S55	10/14/2020		1.7	Y	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	1.7		0.41	U	0.41	U
E17-S56	10/14/2020		0.39	U, Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U
E17-S57	10/14/2020		2.8	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	2.8		0.38	U	0.38	U
E17-S60 (SW)	4/6/2021		1.0	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	1.0		0.38	U	0.38	U
E17-S61 (SW)	4/6/2021		1.0	Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	1.0		0.39	U	0.39	U
E17-S62 (SW)	4/6/2021		1.0	Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	1.0		0.39	U	0.39	U
E17-S63 (SW)	4/6/2021		0.39	U, Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U
E17-S64	4/6/2021		7.0	Y	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	7.0		1.8	U	1.8	U
E17-S65	4/6/2021		8.0	Y	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	8.0		1.8	U	1.8	U
E17-S66	4/6/2021		5.0	Y	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	5.0		1.9	U	1.9	U
E17-S67	4/6/2021		7.0	Y	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	7.0		1.9	U	1.9	U
E17-S68 (SW)	4/8/2021		0.35	U, Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
E17-S78 (SW)	4/8/2021		0.50	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.50		0.37	U	0.37	U
E17-S79 (SW)	4/8/2021		1.0	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	1.0		0.36	U	0.36	U
E17-S80 (SW)	4/8/2021		1.9	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	1.9		0.37	U	0.37	U
E17-S81 (SW)	4/8/2021		0.73	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.73		0.35	U	0.35	U
E17-S83 (SW)	4/8/2021		0.79	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.79		0.37	U	0.37	U
E17-S84	4/8/2021		0.76	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.76		0.38	U	0.38	U
E17-S85	4/8/2021		0.42	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.42		0.36	U	0.36	U
E17-S86	4/8/2021		0.50	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.50		0.37	U	0.37	U
E17-S87	4/8/2021		1.0	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	1.0		0.38	U	0.38	U
E17-S88	4/8/2021		0.57	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.57		0.38	U	0.38	U
E17-S89	4/8/2021		0.74	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.74		0.36	U	0.36	U
E17-S90	4/8/2021		0.84	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.84		0.35	U	0.35	U
E17-S91	4/8/2021		1.4	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	1.4		0.37	U	0.37	U
E17-S92	4/8/2021		0.92	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.92		0.38	U	0.38	U
E17-S93	4/8/2021		0.90	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.90		0.34	U	0.34	U
E17-S94	4/8/2021		0.49	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.49		0.36	U	0.36	U
E17-S95	4/8/2021		0.62	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.62		0.37	U	0.37	U
E17-S96	4/8/2021		0.37	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.37		0.35	U	0.35	U
E17-S97	4/8/2021		0.83	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.83		0.35	U	0.35	U
E17-S98	4/8/2021		0.37	U, Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
E17-S99	4/8/2021		1.3	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	1.3		0.35	U	0.35	U
E17-S100	4/8/2021		0.50	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.50		0.34	U	0.34	U
E17-S101	4/8/2021		0.36	U, Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
E17-S102	4/8/2021		0.37	U, Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
E17-S103	4/8/2021		0.50	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.50		0.37	U	0.37	U
E17-S104	4/8/2021		0.36	U, Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
E17-S105	4/8/2021		3.7	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	3.7		0.36	U	0.36	U
E17-S106	4/8/2021		0.35	U, Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
E17-S107	4/8/2021		0.37	U, Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
E17-S108 (SW)	4/14/2021		0.35	U, Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
E17-S109 (SW)	4/14/2021		0.37	U, Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
E17-S110 (SW)	4/14/2021		0.40	U, Y	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
E17-S111 (SW)	4/14/2021		0.38	U, Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
E17-S112 (SW)	4/14/2021		0.73	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.73		0.36	U	0.36	U
E17-S113 (SW)	4/14/2021		0.36	U, Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
E17-S114 (SW)	4/14/2021		0.58	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.58		0.35	U	0.35	U
E17-S115 (SW)	4/14/2021		0.41	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.41		0.35	U	0.35	U
E17-S116 (SW)	4/14/2021		1.8	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	1.8		0.37	U	0.37	U
E17-S117 (SW)	4/14/2021		2.0	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	2.0		0.37	U	0.37	U
E17-S118 (SW)	4/14/2021		2.4	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	2.4		0.37	U	0.37	U
E17-S119 (SW)	4/14/2021		0.44	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.44		0.37	U	0.37	U
E17-S120 (SW)	4/14/2021		1.6	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	1.6		0.37	U	0.37	U
E17-S121 (SW)	4/14/2021		0.56	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.56		0.37	U	0.37	U
E17-S122 (SW)	4/14/2021		0.36	U, Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
E17-S123 (SW)	4/14/2021		1.6	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	1.6		0.36	U	0.36	U
E17-S124 (SW)	4/14/2021		0.35	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35		0.35	U	0.35	U
E17-S125 (SW)	4/14/2021		0.36	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36		0.36	U	0.36	U
E17-S126	4/14/2021		0.39	Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39		0.39	U	0.39	U
E17-S127	4/14/2021		1.0	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	1.0		0.37	U	0.37	U
E17-S128	4/14/2021		0.82	Y	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U	0.82		0.40	U	0.40	U
E17-S129	4/14/2021		0.37	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37		0.37	U	0.37	U
E17-S130	4/14/2021		0.38	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38		0.38	U	0.38	U
E17-S131	4/14/2021		0.68	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.68		0.38	U	0.38	U
E17-S132	4/14/2021		0.39	U, Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U
E17-S133	4/14/2021		0.49	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.49		0.37	U	0.37	U
E17-S134	4/14/2021		0.94	Y	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.94		0.39	U	0.39	U
E17-S135	5/7/2021		8.2	Y	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	8.2		1.0	U	1.0	U
E17-S136	5/7/2021		0.35	U, Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
E17-S137	5/7/2021		0.36	U, Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
E17-S138	5/7/2021		0.34	U, Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
E17-S139	5/7/2021		0.35	U, Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
E17-S140	5/7/2021		0.34	U, Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
E17-S141	5/7/2021		0.35	U, Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
E17-S142	5/7/2021		0.36	U, Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
E17-S143	5/7/2021		0.34	U, Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
E18																						
E18-S1 (SW)	10/7/2020		0.87	Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.87		0.33	U	0.33	U
E18-S2 (SW)	10/7/2020		0.38	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.38		0.35	U	0.35	U
E18-S3 (SW)	10/7/2020		0.69	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.69		0.37	U	0.37	U
E18-S4 (SW)	10/7/2020		2.6	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	2.6		0.35	U	0.35	U
E18-S5	10/7/2020		0.53	Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.53		0.33	U	0.33	U
E18-S6	10/7/2020		1.1	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	1.1		0.35	U	0.35	U
E18-S7	10/7/2020		1.0	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.0		0.34	U	0.34	U
E18-S8	10/7/2020		0.38	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38		0.36	U	0.36	U
E18-S9	10/7/2020		1.8	Y	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	1.8		0.35	U	0.35	U
E18-S10	10/7/2020		0.33	U, Y	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
E18-S11	10/7/2020		2.1	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	2.1		0.34	U	0.34	U
E18-S12	10/7/2020		1.4	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.4		0.34	U	0.34	U
E18-S13	10/7/2020		1.2	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	1.2		0.36	U	0.36	U
E18-S14	10/7/2020		6.0	Y	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	6.0		1.7	U	1.7	U
E18-S15	10/7/2020		2.2	Y	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	2.2		0.34	U	0.34	U
E18-S16	10/7/2020		3.5	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	3.5		0.36	U	0.36	U
E19																						
E19-S1 (SW)	10/7/2020		3.4	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	3.4		0.38	U	0.38	U
E19-S2 (SW)	10/7/2020		2.1	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	2.1		0.36	U	0.36	U
E19-S3 (SW)	10/7/2020		1.8	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	1.8		0.38	U	0.38	U
E19-S4 (SW)	10/7/2020		2.1	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	2.1		0.36	U	0.36	U
E19-S5 (SW)	10/7/2020		3.7	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	3.7		0.36	U	0.36	U
E19-S6 (SW)	10/7/2020		1.8	Y	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	1.8		0.37	U	0.37	U
E19-S7 (SW)	10/7/2020		0.69	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.69		0.38	U	0.38	U
E19-S8	10/7/2020		2.7	Y	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	2.7		0.36	U	0.36	U
E19-S9	10/7/2020		4.2	Y	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	4.2		1.8	U	1.8	U
E19-S10	10/7/2020		1.1	Y	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
E20																						
E20-S1 (SW)	10/16/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E20-S2 (SW)	10/16/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E20-S3 (SW)	10/16/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E20-S4 (SW)	10/16/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E20-S5 (SW)	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S6 (SW)	10/16/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E20-S7 (SW)	10/16/2020		0.40	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.40		0.36 U		0.36 U	
E20-S8 (SW)	10/16/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E20-S9 (SW)	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S10 (SW)	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S11 (SW)	10/16/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E20-S12 (SW)	10/16/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E20-S13 (SW)	10/16/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E20-S14	10/16/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E20-S15	10/16/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E20-S16	10/16/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E20-S17	10/16/2020		0.84	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.84		0.38 U		0.38 U	
E20-S18	10/16/2020		0.66	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.66		0.38 U		0.38 U	
E20-S19	10/16/2020		0.41	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.41		0.38 U		0.38 U	
E20-S20	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S21	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S22	10/16/2020		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E20-S23	10/16/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E20-S24	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S25	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S26	10/16/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E20-S27	10/16/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E20-S28	10/16/2020		1.3	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.3		0.36 U		0.36 U	
E21																						
E21-S1 (SW)	11/24/2020		0.84	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.84		0.35 U		0.35 U	
E21-S3 (SW)	11/24/2020		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E21-S6 (SW)	11/24/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E21-S7 (SW)	11/24/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E21-S8 (SW)	11/24/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E21-S9 (SW)	11/24/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S10 (SW)	11/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E21-S11 (SW)	11/24/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E21-S12 (SW)	11/24/2020		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E21-S13 (SW)	11/24/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E21-S14 (SW)	11/24/2020		0.70	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.70		0.38 U		0.38 U	
E21-S15 (SW)	11/24/2020		0.80	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.80		0.39 U		0.39 U	
E21-S16 (SW)	11/24/2020		3.7	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		3.7		0.38 U		0.38 U	
E21-S17 (SW)	11/24/2020		2.4	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		2.4		0.37 U		0.37 U	
E21-S19 (SW)	11/24/2020		8.0	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		8.0		1.9 U		1.9 U	
E21-S20 (SW)	11/24/2020		4.1	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		4.1		0.39 U		0.39 U	
E21-S23 (SW)	11/24/2020		2.2	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		2.2		0.39 U		0.39 U	
E21-S24 (SW)	11/24/2020		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E21-S25 (SW)	11/24/2020		2.1	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.1		0.35 U		0.35 U	
E21-S26 (SW)	11/24/2020		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S27 (SW)	11/24/2020		8.3	Y	3.7 U		3.7 U		3.7 U		3.7 U		3.7 U		3.7 U		8.3		3.7 U		3.7 U	
E21-S28 (SW)	11/24/2020		0.81	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.81		0.36 U		0.36 U	
E21-S29 (SW)	11/24/2020		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E21-S30 (SW)	11/24/2020		3.3	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		3.3		0.34 U		0.34 U	
E21-S31 (SW)	11/24/2020		1.5	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.5		0.36 U		0.36 U	
E21-S32 (SW)	11/24/2020		2.2	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		2.2		0.39 U		0.39 U	
E21-S33 (SW)	11/24/2020		0.68	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.68		0.39 U		0.39 U	
E21-S34 (SW)	11/24/2020		2.1	Y	0.44 U		0.44 U		0.44 U		0.44 U		0.44 U		0.44 U		2.1		0.44 U		0.44 U	
E21-S35 (SW)	11/24/2020		0.65	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.65		0.41 U		0.41 U	
E21-S36 (SW)	11/24/2020		5.6	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		5.6		1.9 U		1.9 U	
E21-S37 (SW)	11/24/2020		7.2	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		7.2		1.9 U		1.9 U	
E21-S38 (SW)	11/24/2020		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E21-S39 (SW)	11/24/2020		2.8	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		2.8		0.38 U		0.38 U	
E21-S40 (SW)	11/24/2020		7.6	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		7.6		1.9 U		1.9 U	
E21-S42 (SW)	11/24/2020		7.0	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		7.0		1.9 U		1.9 U	
E21-S43 (SW)	11/24/2020		6.6	Y	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		6.6		2.0 U		2.0 U	
E21-S45 (SW)	11/24/2020		4.2	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		4.2		1.9 U		1.9 U	
E21-S46 (SW)	4/13/2021		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E21-S47 (SW)	4/13/2021		2.3	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		2.3		0.39 U		0.39 U	
E21-S48 (SW)	4/13/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E21-S49 (SW)	4/13/2021		1.5	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.5		0.38 U		0.38 U	
E21-S50 (SW)	4/13/2021		0.53		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.53		0.37 U		0.37 U	
E21-S51 (SW)	4/13/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E21-S52 (SW)	4/13/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S53 (SW)	4/13/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S55 (SW)	4/13/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E21-S57 (SW)	4/13/2021		2.1	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		2.1		0.39 U		0.39 U	
E21-S58 (SW)	4/13/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E21-S59 (SW)	4/13/2021		6.1	Y	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		6.1		1.9 U		1.9 U	
E21-S63 (SW)	4/13/2021		1.2	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.2		0.38 U		0.38 U	
E21-S65 (SW)	4/13/2021		0.53	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.53		0.39 U		0.39 U	
E21-S66	4/13/2021		0.41 U	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U	
E21-S67	4/13/2021		4.7	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		4.7		0.39 U		0.39 U	
E21-S68	4/13/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S70	4/13/2021		4.1	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		4.1		0.37 U		0.37 U	
E21-S71	4/13/2021		5.0	Y	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		5.0		1.8 U		1.8 U	
E21-S72 (SW)	4/16/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E21-S73 (SW)	4/16/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E21-S74 (SW)	4/16/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E21-S75 (SW)	4/16/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E21-S76 (SW)	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S77 (SW)	4/16/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E21-S78 (SW)	4/16/2021		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E21-S79 (SW)	4/16/2021		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E21-S81 (SW)	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S82 (SW)	4/16/2021		1.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.0		0.37 U		0.37 U	
E21-S83 (SW)	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S84 (SW)	4/16/2021		0.75	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.75		0.37 U		0.37 U	
E21-S85 (SW)	4/16/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E21-S86 (SW)	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S87 (SW)	4/16/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E21-S88 (SW)	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S89 (SW)	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S90	4/16/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E21-S91	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S92	4/16/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S93	4/16/2021		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E21-S97 (SW)	4/27/2021		0.87	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.87		0.37 U		0.37 U	
E21-S98 (SW)	4/27/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E21-S99 (SW)	4/27/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E22																						
E22-S4 (SW)	4/6/2021		1.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.0		0.37 U		0.37 U	
E22-S6 (SW)	4/6/2021		1.0	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.0		0.36 U		0.36 U	
E22-S7 (SW)	4/6/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E22-S8 (SW)	4/6/2021		1.0	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		1.0		0.40 U		0.40 U	
E22-S9 (SW)	4/6/2021		0.40	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40		0.40 U		0.40 U	
E22-S10 (SW)	4/6/2021		0.41 U	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U	
E22-S11 (SW)	4/6/2021		1.0	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.0		0.35 U		0.35 U	
E22-S13	4/6/2021		1.0	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.0		0.38 U		0.38 U	
E22-S14	4/6/2021		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E22-S15	4/6/2021		1.0	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.0		0.38 U		0.38 U	
E22-S16	4/6/2021		2.0	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.0		0.36 U		0.36 U	
E22-S17	4/6/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E22-S18	4/6/2021		1.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.0		0.37 U		0.37 U	
E22-S19	4/6/2021		1.0	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.0		0.38 U		0.38 U	
E22-S20	4/6/2021		1.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.0		0.37 U		0.37 U	
E22-S21	4/6/2021		1.0	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.0		0.37 U		0.37 U	
E22-S22	4/6/2021		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E22-S23	4/6/2021		0.41 U	Y	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U	
E22-S24	4/6/2021		0.38	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38		0.38 U		0.38 U	
E22-S25	4/6/2021		0.37	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37		0.37 U		0.37 U	
E22-S26	4/6/2021		0.37	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37		0.37 U		0.37 U	
E22-S27	4/6/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E22-S28	4/6/2021		0.18	Y	0.18 U		0.18 U		0.18 U		0.18 U		0.18 U		0.18 U		0.18		0.18 U		0.18 U	
E22-S29	4/6/2021		2.0	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		2.0		0.38 U		0.38 U	
E22-S30	4/6/2021		2.0	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		2.0		0.38 U		0.38 U	
E22-S31	4/6/2021		1.0	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		1.0		0.39 U		0.39 U	
E22-S32 (SW)	5/5/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E22-S33 (SW)	5/5/2021		0.39	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.39		0.36 U		0.36 U	
E22-S34 (SW)	5/5/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E22-S35 (SW)	5/5/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E22-S36 (SW)	5/5/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E23																						
E23-S4 (SW)	4/6/2021		0.87	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.87		0.36 U		0.36 U	
E23-S6 (SW)	4/6/2021		0.50	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.50		0.37 U		0.37 U	
E23-S7 (SW)	4/6/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E23-S8 (SW)	4/6/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E23-S9 (SW)	4/6/2021		0.57	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.57		0.36 U		0.36 U	
E23-S11 (SW)	4/6/2021		0.46	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.46		0.37 U		0.37 U	
E23-S12	4/6/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E23-S13	4/6/2021		1.1	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.1		0.36 U		0.36 U	
E23-S14	4/6/2021		0.68	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.68		0.37 U		0.37 U	
E23-S15	4/6/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			R F	R F	R F	R F	R F	R F	R F	R F	R F	R F
I/C DEC (rev. 06-27-2013)		>	10									
Res. DEC (rev. 06-27-2013)		>	1									
E24												
E24-S1	4/6/2021		1.0 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.0	0.35 U	0.35 U
E24-S2	4/6/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S3	4/6/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S13 (SW)	4/6/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E24-S14 (SW)	4/6/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S15 (SW)	4/6/2021		0.34 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34	0.34 U	0.34 U
E24-S16 (SW)	4/6/2021		0.35 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35	0.35 U	0.35 U
E24-S80 (SW)	5/7/2021		0.47 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.47	0.34 U	0.34 U
E24-S81 (SW)	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S82 (SW)	5/7/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E24-S83	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S84	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S85	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S86	5/7/2021		0.59 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.59	0.36 U	0.36 U
E24-S87	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S88	5/7/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E24-S89	5/7/2021		0.42 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.42	0.34 U	0.34 U
E24-S90	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S91	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S92	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S93	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S94	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S95	5/7/2021		3.8 Y	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.8	1.9 U	1.9 U
E24-S96	5/7/2021		1.4 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.4	0.36 U	0.36 U
E24-S97	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S98	5/7/2021		1.5 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.5	0.35 U	0.35 U
E24-S99	5/7/2021		3.5 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.5	0.37 U	0.37 U
E24-S100	5/7/2021		0.80 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.80	0.36 U	0.36 U
E24-S101	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S102	5/7/2021		0.63 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.63	0.35 U	0.35 U
E24-S103	5/7/2021		0.76 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.76	0.37 U	0.37 U
E24-S106	5/7/2021		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E24-S107	5/7/2021		1.3 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.3	0.35 U	0.35 U
E24-S108	5/7/2021		1.1 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.1	0.37 U	0.37 U
E24-S109	5/7/2021		3.4 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.4	0.35 U	0.35 U
E24-S111	5/7/2021		1.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.6	0.35 U	0.35 U
E24-S112	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S113	5/7/2021		1.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.6	0.35 U	0.35 U
E24-S114	5/7/2021		2.1 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.1	0.35 U	0.35 U
E24-S115	5/7/2021		3.6 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.6	0.36 U	0.36 U
E24-S116	5/7/2021		8.8 Y	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.8	1.8 U	1.8 U
E24-S117	5/7/2021		1.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.6	0.35 U	0.35 U
E24-S118	5/7/2021		0.94 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.94	0.34 U	0.34 U
E24-S119	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S120	5/7/2021		0.91 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.91	0.36 U	0.36 U
E24-S121	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S122	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S123	5/7/2021		3.3 Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	3.3	0.38 U	0.38 U
E24-S124	5/7/2021		4.3 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	4.3	0.36 U	0.36 U
E24-S125	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S126	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S127	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S128	5/7/2021		3.1 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.1	0.36 U	0.36 U
E24-S129	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S130	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S131	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S132	5/7/2021		0.39 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.39	0.36 U	0.36 U
E24-S133	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S134	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S135	5/7/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S136	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S137	5/7/2021		0.68 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.68	0.36 U	0.36 U
E24-S138	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S139	5/7/2021		2.1 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	2.1	0.37 U	0.37 U
E24-S140	5/7/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E24-S141	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S142	5/7/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S143	5/7/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E24-S144	5/7/2021		2.6 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.6	0.35 U	0.35 U
E24-S145	5/7/2021		2.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	2.2	0.36 U	0.36 U
E24-S146	5/7/2021		2.9 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.9	0.35 U	0.35 U
E24-S147	5/7/2021		0.66 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.66	0.35 U	0.35 U
E24-S148	5/7/2021		0.85 Y	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.85	0.42 U	0.42 U
E24-S149	5/7/2021		1.2 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.2	0.36 U	0.36 U
E24-S150	5/7/2021		1.0 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0	0.36 U	0.36 U
E24-S151	5/12/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S152	5/12/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S153	5/12/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E24-S154	5/12/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E24-S155	5/12/2021		0.37 U, Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
E24-S156	5/12/2021		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E24-S157	5/12/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25												
E25-S1(SW)	4/9/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E25-S2(SW)	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S3(SW)	4/9/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E25-S4(SW)	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S5(SW)	4/9/2021		0.53 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.53	0.34 U	0.34 U
E25-S7(SW)	4/9/2021		0.35 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.35	0.33 U	0.33 U
E25-S8(SW)	4/9/2021		0.42 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.42	0.34 U	0.34 U
E25-S10(SW)	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S11(SW)	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S12	4/9/2021		0.58 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.58	0.34 U	0.34 U
E25-S13	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S14	4/9/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E25-S15	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S16	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S17	4/9/2021		0.60 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.60	0.34 U	0.34 U
E25-S18	4/9/2021		0.41 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.41	0.35 U	0.35 U
E25-S19	4/9/2021		0.66 Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.66	0.36 U	0.36 U
E25-S20	4/9/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E25-S21	4/9/2021		0.64 Y	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.64	0.41 U	0.41 U
E25-S22	4/9/2021		0.55 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.55	0.35 U	0.35 U
E25-S23	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S24	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S25	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S26	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S27	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S28	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S29	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S30	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S31	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S32	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S33	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S34	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S35	4/9/2021		0.35 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U
E25-S36	4/9/2021		0.42 Y	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.42	0.37 U	0.37 U
E25-S37	4/9/2021		0.38 U, Y	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
E25-S38	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E25-S39 (SW)	4/15/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E25-S41 (SW)	4/15/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E25-S42 (SW)	4/15/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E25-S43 (SW)	4/19/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E25-S44	4/19/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E26												
E26-S2	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S3	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S4	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S5	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E26-S6	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S7	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S8	4/9/2021		0.35 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35	0.34 U	0.34 U
E26-S9	4/9/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E26-S10	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E26-S11	4/9/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E26-S12	4/9/2021		0.82 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.82	0.33 U	0.33 U
E26-S13	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S14	4/9/2021		0.52 Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.52	0.35 U	0.35 U
E26-S15	4/9/2021		0.34 U, Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
E26-S16	4/9/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E26-S17	4/9/2021		0.55 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.55	0.34 U	0.34 U
E26-S18	4/9/2021		0.43 Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.43	0.33 U	0.33 U
E26-S19	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S20	4/9/2021		0.36 U, Y	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
E26-S21	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S22	4/9/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S23	4/9/2021		0.33 U, Y	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
E26-S24	4/9/2021		0.41 Y	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.41	0.34 U	0.34 U
E26-S25	4/15/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
E26-S26	4/15/2021		0.35 U, Y	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
E27																						
E27-S1 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S2 (SW)	4/13/2021		0.38 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.38		0.35 U		0.35 U	
E27-S3 (SW)	4/13/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E27-S4 (SW)	4/13/2021		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E27-S5 (SW)	4/13/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E27-S6 (SW)	4/13/2021		0.55 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.55		0.35 U		0.35 U	
E27-S7 (SW)	4/13/2021		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E27-S8 (SW)	4/13/2021		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E27-S9 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S10 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S11 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S12 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S13 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S14 (SW)	4/13/2021		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E27-S15 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S16 (SW)	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S17 (SW)	4/13/2021		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E27-S18	4/13/2021		0.80 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.80		0.35 U		0.35 U	
E27-S19	4/13/2021		0.44 Y		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.44		0.33 U		0.33 U	
E27-S20	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S21	4/13/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E27-S22	4/13/2021		1.3 Y		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		1.3		0.41 U		0.41 U	
E27-S23	4/13/2021		0.76 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.76		0.34 U		0.34 U	
E27-S24	4/13/2021		0.42 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.42		0.34 U		0.34 U	
E27-S25	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S26	4/13/2021		0.53 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.53		0.36 U		0.36 U	
E27-S27	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S28	4/13/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E27-S29	4/13/2021		0.40 U	Y	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		0.40 U	
E27-S30	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S31	4/13/2021		1.1 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.1		0.34 U		0.34 U	
E27-S32	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S33	4/13/2021		0.58 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.58		0.34 U		0.34 U	
E27-S34	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S35	4/13/2021		0.54 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.54		0.34 U		0.34 U	
E27-S36	4/13/2021		1.5 Y		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		1.5		0.33 U		0.33 U	
E27-S37	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E27-S38	4/13/2021		0.58 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.58		0.34 U		0.34 U	
E27-S39	4/13/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E28																						
E28-S2 (SW)	4/14/2021		0.71 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.71		0.35 U		0.35 U	
E28-S3 (SW)	4/14/2021		0.57 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.57		0.35 U		0.35 U	
E28-S4 (SW)	4/14/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E28-S5 (SW)	4/14/2021		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E28-S6 (SW)	4/14/2021		0.34 Y		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.34		0.33 U		0.33 U	
E28-S7	4/14/2021		2.3 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.3		0.36 U		0.36 U	
E28-S8	4/14/2021		0.86 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.86		0.36 U		0.36 U	
E28-S9	4/14/2021		0.52 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.52		0.36 U		0.36 U	
E28-S10	4/14/2021		2.2 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.2		0.36 U		0.36 U	
E28-S11	4/14/2021		0.76 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.76		0.36 U		0.36 U	
E28-S12	4/14/2021		1.1 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.1		0.35 U		0.35 U	
E28-S13	4/14/2021		5.6 Y		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		5.6		1.7 U		1.7 U	
E28-S14	4/14/2021		1.2 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.2		0.34 U		0.34 U	
E28-S15	4/14/2021		0.77 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.77		0.35 U		0.35 U	
E28-S16	4/14/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E28-S17	4/14/2021		2.2 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.2		0.35 U		0.35 U	
E28-S18	4/14/2021		2.0 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.0		0.36 U		0.36 U	
E28-S19	4/14/2021		1.1 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.1		0.34 U		0.34 U	
E28-S20	4/14/2021		2.0 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.0		0.34 U		0.34 U	
E28-S21	4/14/2021		0.57 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.57		0.35 U		0.35 U	
E28-S22	4/14/2021		4.7 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		4.7		0.37 U		0.37 U	
E28-S23	4/14/2021		1.5 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.5		0.36 U		0.36 U	
E28-S24	4/14/2021		0.72 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.72		0.35 U		0.35 U	
E28-S25	4/14/2021		1.0 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.0		0.36 U		0.36 U	
E28-S26	4/14/2021		0.94 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.94		0.35 U		0.35 U	
E28-S27	4/14/2021		2.2 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.2		0.35 U		0.35 U	
E28-S28	4/14/2021		1.5 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.5		0.35 U		0.35 U	
E28-S29	4/14/2021		0.79 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.79		0.36 U		0.36 U	
E28-S30	4/14/2021		0.80 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.80		0.36 U		0.36 U	
E28-S31	4/14/2021		0.54 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.54		0.36 U		0.36 U	
E28-S32	4/14/2021		0.70 U	Y	0.70 U		0.70 U		0.70 U		0.70 U		0.70 U		0.70 U		0.70 U		0.70 U		0.70 U	
E28-S33	4/14/2021		0.84 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.84		0.36 U		0.36 U	
E28-S34	4/14/2021		2.4 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.4		0.35 U		0.35 U	
E28-S35	4/14/2021		6.9 Y		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		6.9		1.8 U		1.8 U	
E28-S36	4/14/2021		0.91 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.91		0.35 U		0.35 U	
E28-S37	4/14/2021		0.90 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.90		0.35 U		0.35 U	
E28-S38	4/14/2021		0.63 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.63		0.37 U		0.37 U	
E28-S39	4/14/2021		2.5 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.5		0.35 U		0.35 U	
E28-S40	4/14/2021		0.93 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.93		0.35 U		0.35 U	
E28-S41	4/14/2021		0.75 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.75		0.37 U		0.37 U	
E28-S42	4/14/2021		0.42 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.42		0.35 U		0.35 U	
E28-S43	4/14/2021		1.1 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.1		0.36 U		0.36 U	
E28-S44	4/14/2021		2.8 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.8		0.36 U		0.36 U	
E28-S45	4/14/2021		1.4 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.4		0.36 U		0.36 U	
E28-S46	4/14/2021		1.6 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.6		0.36 U		0.36 U	
E28-S47	4/14/2021		0.74 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.74		0.36 U		0.36 U	
E28-S49 (SW)	4/14/2021		0.69 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.69		0.37 U		0.37 U	
E28-S53 (SW)	4/14/2021		0.90 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.90		0.36 U		0.36 U	
E28-S58 (SW)	4/19/2021		0.65 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.65		0.37 U		0.37 U	
E28-S62 (SW)	4/19/2021		0.99 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.99		0.37 U		0.37 U	
E28-S64 (SW)	4/19/2021		0.50 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.50		0.36 U		0.36 U	
E28-S65 (SW)	4/19/2021		1.3 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.3		0.36 U		0.36 U	
E28-S66 (SW)	4/21/2021		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E28-S69 (SW)	4/21/2021		0.62 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.62		0.35 U		0.35 U	
E28-S72 (SW)	4/21/2021		0.84 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.84		0.36 U		0.36 U	
E28-S73 (SW)	4/21/2021		0.78 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.78		0.36 U		0.36 U	
E28-S74	4/21/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E28-S75	4/21/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E28-S76	4/21/2021		1.8 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.8		0.36 U		0.36 U	
E28-S77	4/21/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E28-S78	4/21/2021		0.63 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.63		0.35 U		0.35 U	
E28-S79 (SW)	4/28/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E28-S81 (SW)	4/28/2021		0.53 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.53		0.36 U		0.36 U	
E28-S82 (SW)	4/28/2021		0.57 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.57		0.34 U		0.34 U	
E28-S83 (SW)	4/28/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E28-S84	4/28/2021		1.8 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.8		0.35 U		0.35 U	
E28-S85	4/28/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E28-S86	4/28/2021		0.35 U	Y	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E28-S87 (SW)	4/29/2021		0.38 U	Y	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E28-S88 (SW)	4/29/2021		0.36 U	Y	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
E28-S89	4/29/2021		0.58 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.58		0.36 U		0.36 U	
E29																						
E29-S1 (SW)	4/14/2021		0.34 U	Y	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E29-S2 (SW)	4/14/2021		0.39 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.39		0.34 U		0.34 U	
E29-S3 (SW)	4/14/2021		0.33 U	Y	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U	
E29-S10 (SW)	4/14/2021		0.82 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.82		0.35 U		0.35 U	
E29-S11 (SW)	4/14/2021		0.4 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.4		0.34 U		0.34 U	
E29-S12 (SW)	4/14/2021		0.5 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.5		0.35 U		0.35 U	
E29-S13 (SW)	4/14/2021		0.83 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.83		0.34 U		0.34 U	
E29-S15 (SW)	4/14/2021		1.3 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.3		0.37 U		0.37 U	
E29-S16 (SW)	4/14/2021		2.3 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		2.3		0.38 U		0.38 U	
E29-S17 (SW)	4/14/2021		1.9 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.9		0.38 U		0.38 U	
E29-S18 (SW)	4/14/2021		0.56 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.56		0.38 U		0.38 U	
E29-S19 (SW)	4/14/2021		0.9 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.9		0.36 U		0.36 U	
E29-S20 (SW)	4/14/2021		0.93 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.93		0.34 U		0.34 U	
E29-S21	4/14/2021		1.6 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.6		0.35 U		0.35 U	
E29-S22	4/14/2021		2.7 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		2.7		0.38 U		0.38 U	
E29-S23	4/14/2021		9.2 Y		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		9.2		1.8 U		1.8 U	
E29-S24	4/14/2021		2 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2		0.35 U		0.35 U	
E29-S25	4/14/2021		5.9 Y		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		5.9		1.8 U		1.8 U	
E29-S26	4/14/2021		1.1 Y		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		1.1		0.39 U		0.39 U	
E29-S27	4/14/2021		3 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		3		0.37 U		0.37 U	
E29-S30	4/14/2021		4.3 Y		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		4.3		1.7 U		1.7 U	
E29-S31	4/14/2021		2.2 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.2		0.34 U		0.34 U	
E29-S32	4/14/2021		1.8 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1.8		0.38 U		0.38 U	
E29-S33	4/14/2021		0.37 U	Y	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E29-S34	4/14/2021		1.1 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.1		0.36 U		0.36 U	
E29-S35	4/14/2021		1.4 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		1.4		0.35 U		0.35 U	
E29-S36	4/14/2021		7.4 Y		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		7.4		1.7 U		1.7 U	
E29-S37	4/14/2021		1.7 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.7		0.34 U		0.34 U	
E29-S38	4/14/2021		2.8 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.8		0.35 U		0.35 U	
E29-S39	4/14/2021		2.8 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		2.8		0.38 U		0.38 U	
E29-S40	4/14/2021		0.52 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.52		0.36 U		0.36 U	
E29-S41	4/14/2021		0.39 U	Y	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E29-S42	4/14/2021		1 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		1		0.38 U		0.38 U	
E29-S43	4/14/2021		1.1 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.1		0.36 U		0.36 U	
E29-S44	4/14/2021		8.2 Y		3.7 U		3.7 U		3.7 U		3.7 U		3.7 U		3.7 U		8.2		3.7 U		3.7 U	
E29-S45	4/14/2021		4.2 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		4.2		0.37 U		0.37 U	
E29-S46	4/14/2021		2.4 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		2.4		0.34 U		0.34 U	
E29-S47	4/14/2021		1.6 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		1.6		0.36 U		0.36 U	
E29-S48	4/14/2021		2.8 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		2.8		0.35 U		0.35 U	
E29-S49	4/14/2021		2.5 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		2.5		0.36 U		0.36 U	
E29-S50	4/14/2021		0.87 Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.87		0.35 U		0.35 U	
E29-S51	4/14/2021		0.98 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.98		0.37 U		0.37 U	
E29

TABLE 1
SUMMARY OF PCB VERIFICATION ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Parameter	Date Sampled		Total PCBs		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
I/C DEC (rev. 06-27-2013)		>	10																			
Res. DEC (rev. 06-27-2013)		>	1																			
E29-S72	4/14/2021		0.34 U, Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E29-S73	4/14/2021		0.35 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.35		0.34 U		0.34 U	
E29-S74	4/14/2021		1.1 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		1.1		0.34 U		0.34 U	
E29-S75	4/14/2021		1.3 Y		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		1.3		0.33 U		0.33 U	
E29-S76	4/14/2021		1.8 Y		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		1.8		0.33 U		0.33 U	
E29-S77	4/14/2021		3.2 Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		3.2		0.34 U		0.34 U	
E29-S79	4/14/2021		4.1 Y		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		4.1		1.7 U		1.7 U	
E29-S80	4/14/2021		0.39 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.39		0.37 U		0.37 U	
E29-S81 (SW)	4/21/2021		0.39 U, Y		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E29-S82 (SW)	4/21/2021		0.38 U, Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E29-S83 (SW)	4/21/2021		0.39 U, Y		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E29-S84 (SW)	4/21/2021		0.49 Y		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.49		0.39 U		0.39 U	
E29-S85 (SW)	4/21/2021		0.38 U, Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E29-S86 (SW)	4/21/2021		0.38 U, Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U	
E29-S88 (SW)	4/21/2021		0.55 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.55		0.36 U		0.36 U	
E29-S89	4/21/2021		0.37 U, Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U	
E29-S90	4/21/2021		0.39 U, Y		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
E29-S91	4/21/2021		0.48 Y		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		0.48		0.38 U		0.38 U	
E29-S92	4/21/2021		0.59 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.59		0.37 U		0.37 U	
E29-S93	4/21/2021		0.51 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.51		0.37 U		0.37 U	
E29-S94	4/21/2021		0.35 U, Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E29-S95	4/21/2021		7.7 Y		3.6 U		3.6 U		3.6 U		3.6 U		3.6 U		3.6 U		7.7		3.6 U		3.6 U	
E29-S96	4/21/2021		1.1 Y		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		1.1		0.37 U		0.37 U	
E29-S97	4/21/2021		0.75 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.75		0.36 U		0.36 U	
E29-S98	4/21/2021		0.35 U, Y		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
E29-S99	4/21/2021		0.34 U, Y		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
E29-S100	4/21/2021		0.69 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.69		0.36 U		0.36 U	
E29-S101 (SW)	4/27/2021		0.73 Y		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.73		0.36 U		0.36 U	

Notes:

1. Analytical results are compared to applicable criteria from the Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive (January 1996, revised June 27, 2013, and amended February 16, 2021).

mg/kg	Milligrams per kilogram
(SW)	Sidewall sample
R	Laboratory analytical result
F	Laboratory flag/qualifier
U	Analyte not detected above laboratory reporting limit shown
Y	Sum of analytes
RES DEC	Residential Direct Exposure Criteria
I/C DEC	Industrial/Commercial Direct Exposure Criteria
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	Environmental Protection Agency

\\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Berlin Settling Pond\2021 Remedial Action Report\3_Tables\[Table 3. SPLP Analytical Summary Table_QC_MDM.xlsx]PCB Results

TABLE 2
SUMMARY OF OTHER COC VERIFICATION SAMPLE ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs		D1-B		D1-E		D1-S		D1-W		E8-S2 (SW)		E8-S4 (SW)		E8-S12		E8-S15		E8-S26		E11-S3 (SW)	
Sample Date		GA PMC	I/C DEC	5/13/2020		5/13/2020		5/13/2020		5/13/2020		8/26/2020		8/26/2020		8/26/2020		8/26/2020		8/26/2020		8/31/2020	
Lab Report No.				GCF94713		GCF94713		GCF94713		GCF94713		GCG62361		GCG62361		GCG62361		GCG62361		GCG62361		GCG65178	
Parameter				R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
Total Metals																							
Arsenic	mg/kg	--	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		**2.89**	
Barium	mg/kg	--	140,000	NA		NA		NA		NA		**106**		**76.2**		**68.5**		**68.8**		**90.6**		NA	
Cadmium	mg/kg	--	1,000	NA		NA		NA		NA		**1.23**		**1.07**		**1.15**		**1.09**		**1.11**		NA	
Silver	mg/kg	--	10,000	NA		NA		NA		NA		0.41 U		0.35 U		0.39 U		0.34 U		0.34 U		NA	
Extractable Total Petroleum Hydrocarbons (ETPH)																							
ETPH	mg/kg	500	2,500	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)																							
Anthracene	µg/kg	40,000	2,500,000	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Benz(a)anthracene	µg/kg	1,000	7,800	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	µg/kg	1,000	1,000	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Benzo(b)fluoranthene	µg/kg	1,000	7,800	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Benzo(ghi)perylene	µg/kg	1,000*	1,000*	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Benzo(k)fluoranthene	µg/kg	1,000	78,000	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Chrysene	µg/kg	1,000*	780000*	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Fluoranthene	µg/kg	5,600	2,500,000	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	µg/kg	1,000*	7800*	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Phenanthrene	µg/kg	4,000	2,500,000	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	
Pyrene	µg/kg	4,000	2,500,000	260 U		270 U		260 U		260 U		NA		NA		NA		NA		NA		NA	

Notes:
1. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to the laboratory report(s).
2. Analytical results are compared to applicable criteria from the Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive (January 1996; revised February 16, 2021).
3. * Indicates Additional Pollutting Substances Criteria

NA	Not analyzed.
BOLD	Compound reported.
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
(SW)	Sidewall sample
R	Laboratory analytical result
F	Laboratory flag/qualifier
U	Analyte not detected above laboratory reporting limit shown
--	Criteria not estalished.
I/C DEC	Industrial / Commercial Direct Exposure Criteria
GA PMC	GA Pollutant Mobility Criteria
RSRs	Remedial Standard Regulations
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	United States Environmental Protection Agency

\\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Berlin Settling Pond\2021 Remedial Action Report\3_Tables\[Table 2. Non-PCB Analytical Summary Table 10.01.2021.xlsx]Non-PCB Results

TABLE 2
SUMMARY OF OTHER COC VERIFICATION SAMPLE ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs		E11-S19 (SW)		E11-S30 (SW)		E11-S38		E11-S56		E11-S72		E11-S84		E13-S3 (SW)		E13-S8 (SW)		E13-S12 (SW)		E13-S17 (SW)	
Sample Date		GA PMC	I/C DEC	8/31/2020		8/31/2020		8/31/2020		8/31/2020		8/31/2020		8/31/2020		9/3/2020		9/3/2020		9/3/2020		9/3/2020	
Lab Report No.				GCG65178		GCG65178		GCG65178		GCG65178		GCG65178		GCG65178		GCG70100		GCG70100		GCG70100		GCG70100	
Parameter				R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
Total Metals																							
Arsenic	mg/kg	--	10	**2.94**		**2.94**		**3.58**		**3.32**		**3.03**		**1.35**		NA		NA		NA		NA	
Barium	mg/kg	--	140,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	mg/kg	--	1,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Silver	mg/kg	--	10,000	NA		NA		NA		NA		NA		NA		0.40 U		0.38 U		**2.29**		0.35 U	
Extractable Total Petroleum Hydrocarbons (ETPH)																							
ETPH	mg/kg	500	2,500	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)																							
Anthracene	µg/kg	40,000	2,500,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benz(a)anthracene	µg/kg	1,000	7,800	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	µg/kg	1,000	1,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(b)fluoranthene	µg/kg	1,000	7,800	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(ghi)perylene	µg/kg	1,000*	1,000*	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(k)fluoranthene	µg/kg	1,000	78,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chrysene	µg/kg	1,000*	780000*	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	µg/kg	5,600	2,500,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	µg/kg	1,000*	7800*	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenanthrene	µg/kg	4,000	2,500,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Pyrene	µg/kg	4,000	2,500,000	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

1. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to the laboratory report(s).
2. Analytical results are compared to applicable criteria from the Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive (January 1996; revised February 16, 2021).
3. * Indicates Additional Pollutting Substances Criteria

NA	Not analyzed.
BOLD	Compound reported.
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
(SW)	Sidewall sample
R	Laboratory analytical result
F	Laboratory flag/qualifier
U	Analyte not detected above laboratory reporting limit shown
--	Criteria not estalished.
I/C DEC	Industrial / Commercial Direct Exposure Criteria
GA PMC	GA Pollutant Mobility Criteria
RSRs	Remedial Standard Regulations
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	United States Environmental Protection Agency

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TABLE 2
SUMMARY OF OTHER COC VERIFICATION SAMPLE ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs		E13-S30		E13-S51		E14-S2 (SW)		E14-S6 (SW)		E14-S40		E14-S40 (SW)		E14-S89		E14-S89 (SW)		E14-S151(SW)	
Sample Date		GA PMC	I/C DEC	9/3/2020		9/3/2020		9/11/2020		9/11/2020		9/11/2020		10/6/2020		9/11/2020		10/6/2020		10/8/2020	
Lab Report No.				GCG70100		GCG70100		GCG75547		GCG75547		GCG75547		GCG91247		GCG75547		GCG91247		GCG93414	
Parameter				R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
Total Metals																					
Arsenic	mg/kg	--	10	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	mg/kg	--	140,000	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	mg/kg	--	1,000	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Silver	mg/kg	--	10,000	**1.35**		0.36 U		0.35 U		**3.89**		0.35 U		NA		0.37 U		NA		NA	
Extractable Total Petroleum Hydrocarbons (ETPH)																					
ETPH	mg/kg	500	2,500	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)																					
Anthracene	µg/kg	40,000	2,500,000	NA		NA		NA		NA		NA		250 U		NA		250 U		240 U	
Benz(a)anthracene	µg/kg	1,000	7,800	NA		NA		NA		NA		NA		250 U		NA		**460**		**590**	
Benzo(a)pyrene	µg/kg	1,000	1,000	NA		NA		NA		NA		NA		250 U		NA		**510**		**610**	
Benzo(b)fluoranthene	µg/kg	1,000	7,800	NA		NA		NA		NA		NA		250 U		NA		**420**		**560**	
Benzo(ghi)perylene	µg/kg	1,000*	1,000*	NA		NA		NA		NA		NA		**330**		NA		**300**		**300**	
Benzo(k)fluoranthene	µg/kg	1,000	78,000	NA		NA		NA		NA		NA		250 U		NA		**410**		**590**	
Chrysene	µg/kg	1,000*	780000*	NA		NA		NA		NA		NA		250 U		NA		**470**		**620**	
Fluoranthene	µg/kg	5,600	2,500,000	NA		NA		NA		NA		NA		**380**		NA		**860**		**1,100**	
Indeno(1,2,3-cd)pyrene	µg/kg	1,000*	7800*	NA		NA		NA		NA		NA		**300**		NA		**320**		**350**	
Phenanthrene	µg/kg	4,000	2,500,000	NA		NA		NA		NA		NA		250 U		NA		**430**		**680**	
Pyrene	µg/kg	4,000	2,500,000	NA		NA		NA		NA		NA		**330**		NA		**720**		**850**	

Notes:

1. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to the laboratory report(s).
2. Analytical results are compared to applicable criteria from the Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive (January 1996; revised February 16, 2021).
3. * Indicates Additional Pollutting Substances Criteria

NA	Not analyzed.
BOLD	Compound reported.
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
(SW)	Sidewall sample
R	Laboratory analytical result
F	Laboratory flag/qualifier
U	Analyte not detected above laboratory reporting limit shown
--	Criteria not estalished.
I/C DEC	Industrial / Commercial Direct Exposure Criteria
GA PMC	GA Pollutant Mobility Criteria
RSRs	Remedial Standard Regulations
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	United States Environmental Protection Agency

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TABLE 2
SUMMARY OF OTHER COC VERIFICATION SAMPLE ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs		E14-S152(SW)		E17-S112 (SW)		E17-S112A (SW)		E17-S112B (SW)		E17-S117 (SW)		E17-S120 (SW)		E17-S123 (SW)		E17-S130	
Sample Date		GA PMC	I/C DEC	10/8/2020		4/19/2021		4/21/2021		4/21/2021		4/19/2021		4/19/2021		4/19/2021		4/19/2021	
Lab Report No.				GCG93414		GCI10894		GCI13028		GCI13028		GCI10894		GCI10894		GCI10894		GCI10894	
Parameter				R	F	R	F	R	F	R	F	R	F	x	x	x	x	R	F
Total Metals																			
Arsenic	mg/kg	--	10	NA		NA		NA		NA		NA		NA		NA		NA	
Barium	mg/kg	--	140,000	NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	mg/kg	--	1,000	NA		NA		NA		NA		NA		NA		NA		NA	
Silver	mg/kg	--	10,000	NA		NA		NA		NA		NA		NA		NA		NA	
Extractable Total Petroleum Hydrocarbons (ETPH)																			
ETPH	mg/kg	500	2,500	NA		NA		NA		NA		NA		NA		NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)																			
Anthracene	µg/kg	40,000	2,500,000	270 U		270 U		240 U		260 U		**340**		240 U		240 U		260 U	
Benz(a)anthracene	µg/kg	1,000	7,800	270 U		**280**		240 U		260 U		**680**		240 U		**570**		**330**	
Benzo(a)pyrene	µg/kg	1,000	1,000	270 U		**320**		240 U		260 U		**630**		240 U		**620**		**370**	
Benzo(b)fluoranthene	µg/kg	1,000	7,800	270 U		**290**		240 U		260 U		**490**		240 U		**500**		**360**	
Benzo(ghi)perylene	µg/kg	1,000*	1,000*	270 U		**330**		240 U		260 U		**310**		240 U		**300**		**270**	
Benzo(k)fluoranthene	µg/kg	1,000	78,000	270 U		270 U		240 U		260 U		**480**		240 U		**430**		**260**	
Chrysene	µg/kg	1,000*	780000*	270 U		**270**		240 U		260 U		**630**		240 U		**550**		**360**	
Fluoranthene	µg/kg	5,600	2,500,000	**310**		**500**		240 U		260 U		**1,600**		240 U		**1,100**		**900**	
Indeno(1,2,3-cd)pyrene	µg/kg	1,000*	7800*	270 U		**300**		240 U		260 U		**330**		240 U		**350**		260 U	
Phenanthrene	µg/kg	4,000	2,500,000	270 U		270 U		240 U		260 U		**1,600**		240 U		**640**		**480**	
Pyrene	µg/kg	4,000	2,500,000	**280**		**440**		240 U		260 U		**1,400**		240 U		**950**		**700**	

Notes:
1. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to the laboratory report(s).
2. Analytical results are compared to applicable criteria from the Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive (January 1996; revised February 16, 2021).
3. * Indicates Additional Pollutting Substances Criteria

NA	Not analyzed.
BOLD	Compound reported.
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
(SW)	Sidewall sample
R	Laboratory analytical result
F	Laboratory flag/qualifier
U	Analyte not detected above laboratory reporting limit shown
--	Criteria not estalished.
I/C DEC	Industrial / Commercial Direct Exposure Criteria
GA PMC	GA Pollutant Mobility Criteria
RSRs	Remedial Standard Regulations
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	United States Environmental Protection Agency

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TABLE 2
SUMMARY OF OTHER COC VERIFICATION SAMPLE ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs		E23-S2(SW)		E23-S4(SW)		E23-S7(SW)		E23-S8(SW)		E23-S29	
Sample Date		GA PMC	I/C DEC	4/6/2021		4/6/2021		4/6/2021		4/6/2021		4/6/2021	
Lab Report No.				GCH93186		GCH93186		GCH93186		GCH93186		GCH93186	
Parameter				R	F	R	F	R	F	R	F	R	F
Total Metals													
Arsenic	mg/kg	--	10	NA		NA		NA		NA		NA	
Barium	mg/kg	--	140,000	NA		NA		NA		NA		NA	
Cadmium	mg/kg	--	1,000	NA		NA		NA		NA		NA	
Silver	mg/kg	--	10,000	NA		NA		NA		NA		NA	
Extractable Total Petroleum Hydrocarbons (ETPH)													
ETPH	mg/kg	500	2,500	NA		NA		NA		NA		NA	
Polycyclic Aromatic Hydrocarbons (PAHs)													
Anthracene	µg/kg	40,000	2,500,000	260	U	260	U	250	U	240	U	250	U
Benz(a)anthracene	µg/kg	1,000	7,800	**730**		**340**		250	U	**330**		250	U
Benzo(a)pyrene	µg/kg	1,000	1,000	**860**		**440**		**250**		**350**		250	U
Benzo(b)fluoranthene	µg/kg	1,000	7,800	**710**		**370**		250	U	**330**		250	U
Benzo(ghi)perylene	µg/kg	1,000*	1,000*	**490**		**310**		250	U	240	U	250	U
Benzo(k)fluoranthene	µg/kg	1,000	78,000	**750**		**350**		250	U	**300**		250	U
Chrysene	µg/kg	1,000*	780000*	**780**		**390**		250	U	**350**		250	U
Fluoranthene	µg/kg	5,600	2,500,000	**1,400**		**740**		**410**		**620**		250	U
Indeno(1,2,3-cd)pyrene	µg/kg	1,000*	7800*	**520**		**340**		250	U	**250**		250	U
Phenanthrene	µg/kg	4,000	2,500,000	**870**		**350**		250	U	**340**		250	U
Pyrene	µg/kg	4,000	2,500,000	**1,200**		**650**		**380**		**550**		250	U

Notes:
1. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to the laboratory report(s).
2. Analytical results are compared to applicable criteria from the Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive (January 1996; revised February 16, 2021).
3. * Indicates Additional Pollutting Substances Criteria

NA	Not analyzed.
BOLD	Compound reported.
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
(SW)	Sidewall sample
R	Laboratory analytical result
F	Laboratory flag/qualifier
U	Analyte not detected above laboratory reporting limit shown
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I/C DEC	Industrial / Commercial Direct Exposure Criteria
GA PMC	GA Pollutant Mobility Criteria
RSRs	Remedial Standard Regulations
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TABLE 3
SUMMARY OF SPLP ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs	D1-B		D1-E		D1-S		D1-W		E1-S34 (SW)		E1-S35 (SW)		E1-S37 (SW)		E1-S41		E1-S43		E3-S208		E3-S222 (SW)		E3-S224 (SW)		E4-S72 (SW)		E5-S37 (SW)		E5-S38 (SW)		E5-S40 (SW)		E5-S42 (SW)		E5-S45		E6-S101 (SW)		E6-S103 (SW)		E6-S105		E6-S106		E7-S6 (SW)	
Sample Date			5/13/2020		5/13/2020		5/13/2020		5/13/2020		9/3/2020		9/3/2020		9/3/2020		9/3/2020		9/3/2020		9/22/2020		9/14/2020		9/14/2020		9/14/2020		9/18/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		8/25/2020	
Lab Report No.		GA PMC	GCF94713		GCF94713		GCF94713		GCF94713		GCG70106		GCG70106		GCG70106		GCG70106		GCG70106		GCG82644		GCG76471		GCG76471		GCG76471		GCG80993		GCG74466		GCG74466		GCG74466		GCG74466		GCG74466		GCG74460		GCG74460		GCG74460		GCG74460		GCG61490	
Parameter			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
Metals																																																	
Arsenic	mg/l	0.05	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	mg/l	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	mg/l	0.005	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Silver	mg/l	0.036	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi-Volatile Organic Compounds (SVOCs)																																																
Acenaphthene	µg/l	4,200*[5]	0.50 U		0.50 U		0.50 U		0.50 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benz(a)anthracene	µg/l	0.6[5]	0.05 U		0.05 U		0.05 U		0.05 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	µg/l	20[5]	0.20 U		0.20 U		0.20 U		0.20 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(b)fluoranthene	µg/l	0.8[5]	0.07 U		0.07 U		0.07 U		0.07 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	µg/l	2,800[5]	0.50 U		0.50 U		0.50 U		0.50 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Fluorene	µg/l	2,800[5]	0.50 U		0.50 U		0.50 U		0.50 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	µg/l	1*[5]	0.10 U		0.10 U		0.10 U		0.10 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene	µg/l	2,800[5]	0.50 U		0.50 U		0.50 U		0.50 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenanthrene	µg/l	2,000[5]	0.06 U		0.06 U		0.06 U		0.06 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Pyrene	µg/l	2,000[5]	0.50 U		0.50 U		0.50 U		0.50 U		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Polychlorinated Biphenyls (PCBs)																																																
Aroclor-1254	µg/l	--	NA		NA		NA		NA		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.25 U		0.50 U		**0.54**		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U	
Aroclor-1260	µg/l	--	NA		NA		NA		NA		0.50 U		**0.99**		0.50 U		0.50 U		0.50 U		0.25 U		0.50 U		0.50 U		**0.65**		0.50 U		**0.51**		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U	
Total PCBs	µg/l	0.5	NA		NA		NA		NA		0.50 U, Y		**0.99** Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.25 U, Y		0.50 U, Y		**0.54** Y		**0.65** Y		0.50 U, Y		**0.51** Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y	

Notes:
1. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to the laboratory report(s).
2. Analytical results are compared to applicable criteria from the Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive (January 1996; revised Feburary 16, 2021).
3. * Indicates Additional Polluting Substance (APS)
4. The site is located in an GA-designated groundwater area.
5. SPLP PAH results compared to 10 times the applicable Groundwater Protection Criteria (GWPC) in accordance with the RSRs.

NA	Not analyzed.
BOLD	Compound reported.
mg/L	milligrams per liter
µg/L	micrograms per liter
(SW)	sidewall sample
R	Laboratory Analytical Result
F	Laboratory Flag/Qualifier
U	Analyte not detected above laboratory reporting limit shown
Y	Sum of Analytes
--	Criteria not estalished.
I/C DEC	Industrial / Commercial Direct Exposure Criteria
GA PMC	GA Pollutant Mobility Criteria
RSRs	Remedial Standard Regulations
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	United States Environmental Protection Agency
SPLP	Synthetic Precipitation Leaching Procedure

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TABLE 3
SUMMARY OF SPLP ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs	E7-S17	E8-S2 (SW)	E8-S3 (SW)	E8-S4 (SW)	E8-S6	E8-S12	E8-S14	E8-S15	E8-S18	E8-S26	E9-S4	E9-S5	E9-S10	E10-S15 (SW)	E10-S34	E10-S48	E10-S53	E10-S62	E10-S71	E10-S81	E10-S85	E10-S86	E10-S90	E10-S92	E10-S99	E10-S100
Sample Date			8/25/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/26/2020	8/28/2020	8/28/2020	8/28/2020	8/28/2020	8/28/2020	8/28/2020	8/28/2020	8/28/2020	8/28/2020	8/28/2020	9/22/2020	9/22/2020
Lab Report No.		GA PMC	GCG61490	GCG62361	GCG62366	GCG62361	GCG62366	GCG62361	GCG62366	GCG62361	GCG62366	GCG62361	GCG62336	GCG62336	GCG62336	GCG64386	GCG64388	GCG64386	GCG64386	GCG64386	GCG64386	GCG64386	GCG64386	GCG64386	GCG64386	GCG64386	GCG82642	GCG82642
Parameter			R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F	R F
Metals																												
Arsenic	mg/l	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	1	NA	**0.015**	NA	**0.043**	NA	**0.011**	NA	0.010 U	NA	**0.027**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	0.005	NA	0.005 U	NA	0.005 U	NA	0.005 U	NA	0.005 U	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	0.036	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds (SVOCs)																												
Acenaphthene	µg/l	4,200*[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	µg/l	0.6[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	µg/l	20[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	µg/l	0.8[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	µg/l	2,800[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	µg/l	2,800[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	µg/l	1*[5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/l	2,800[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	µg/l	2,000[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	µg/l	2,000[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs)																												
Aroclor-1254	µg/l	--	0.50 U	NA	0.50 U	NA	0.50 U	NA	0.50 U	NA	0.50 U	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1260	µg/l	--	0.50 U	NA	0.50 U	NA	0.50 U	NA	0.50 U	NA	**0.54**	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.60**	0.50 U	**1.20**	**0.85**	0.50 U	**0.80**	0.50 U	**0.80**
Total PCBs	µg/l	0.5	0.50 U, Y	NA	0.50 U, Y	NA	0.50 U, Y	NA	0.50 U, Y	NA	**0.54** Y	NA	0.50 U, Y	0.50 U, Y	0.50 U, Y	0.50 U, Y	0.50 U, Y	0.50 U, Y	0.50 U, Y	0.50 U, Y	**0.60** Y	0.50 U, Y	**1.20** Y	**0.85** Y	0.50 U, Y	**0.80** Y	0.50 U, Y	**0.80** Y

Notes:
1. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to the laboratory report(s).
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NA	Not analyzed.
BOLD	Compound reported.
mg/L	milligrams per liter
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(SW)	sidewall sample
R	Laboratory Analytical Result
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CT DEEP	Connecticut Department of Energy and Environmental Protection
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SPLP	Synthetic Precipitation Leaching Procedure

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TABLE 3
SUMMARY OF SPLP ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs	E10-S101		E10-S102		E11-S95		E11-S96		E11-S97 (SW)		E11-S100 (SW)		E11-S101 (SW)		E11-S102 (SW)		E11-S104 (SW)		E11-S108		E11-S110		E11-S112		E12- S79		E12- S104		E13-S1 (SW)		E13-S12 (SW)		E13-S16 (SW)		E13-S43		E13-S62 (SW)		E13-S63		E14-S2 (SW)		E14-S6 (SW)		E14-S40 (SW)		E14-S89 (SW)		E14 -S131		E14 -S138	
Sample Date		GA PMC	9/24/2020		9/24/2020		9/3/2020		9/3/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/10/2020		9/18/2020		9/18/2020		9/3/2020		9/3/2020		9/3/2020		9/3/2020		9/10/2020		9/10/2020		10/6/2020		10/6/2020		10/6/2020		10/6/2020		9/18/2020		9/18/2020	
Lab Report No.			GCG84594		GCG84594		GCG70148		GCG70148		GCG74416		GCG74416		GCG74416		GCG74416		GCG74416		GCG74416		GCG74416		GCG74416		GCG81015		GCG81015		GCG70039		GCG70039		GCG70039		GCG70039		GCG74458		GCG74458		GCG91247		GCG91247		GCG91247		GCG91247		GCG81003		GCG81003	
Parameter			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
Metals																																																							
Arsenic	mg/l	0.05	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	mg/l	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	mg/l	0.005	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Silver	mg/l	0.036	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi-Volatile Organic Compounds (SVOCs)																																																					
Acenaphthene	µg/l	4,200*[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.50 U		0.50 U		0.50 U		0.50 U		NA		NA	
Benz(a)anthracene	µg/l	0.6[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.25**		0.05 U		0.05 U		0.05 U		NA		NA	
Benzo(a)pyrene	µg/l	20[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.30**		0.20 U		0.20 U		0.20 U		NA		NA	
Benzo(b)fluoranthene	µg/l	0.8[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.27**		0.07 U		0.07 U		0.07 U		NA		NA	
Fluoranthene	µg/l	2,800[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.62**		0.50 U		0.50 U		0.50 U		NA		NA	
Fluorene	µg/l	2,800[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.50 U		0.50 U		0.50 U		0.50 U		NA		NA	
Indeno(1,2,3-cd)pyrene	µg/l	1*[5]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.23**		0.10 U		0.10 U		0.10 U		NA		NA	
Naphthalene	µg/l	2,800[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.50 U		0.50 U		0.50 U		0.50 U		NA		NA	
Phenanthrene	µg/l	2,000[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.78**		0.06 U		0.06 U		0.06 U		NA		NA	
Pyrene	µg/l	2,000[4]	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.53**		0.50 U		0.50 U		0.50 U		NA		NA	
Polychlorinated Biphenyls (PCBs)																																																					
Aroclor-1254	µg/l	--	0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		NA		NA		NA		NA		0.50 U		0.50 U	
Aroclor-1260	µg/l	--	0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		**0.57**		**0.60**		0.50 U		**0.72**		0.50 U		0.50 U		**0.61**		0.50 U		0.50 U		0.50 U		0.50 U		0.50 U		**0.52**		0.50 U		0.50 U		NA		NA		NA		NA		**0.71**		0.50 U	
Total PCBs	µg/l	0.5	0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		**0.57** Y		**0.60** Y		0.50 U, Y		**0.72** Y		0.50 U, Y		0.50 U, Y		**0.61** Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		0.50 U, Y		**0.52** Y		0.50 U, Y		0.50 U, Y		NA		NA		NA		NA		**0.71** Y		0.50 U, Y	

Notes:
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TABLE 3
SUMMARY OF SPLP ANALYTICAL RESULTS
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING BASIN
107 SELDON STREET
BERLIN, CONNECTICUT

Sample ID	Reporting Units	RSRs	E14-S151(SW)		E14-S152(SW)		E15-S94 (SW)		E15-S107		E17-S18		E17-S58		E17-S59		E17-S112 (SW)		E17-S112A (SW)		E17-S112B (SW)		E17-S117 (SW)		E17-S120 (SW)		E17-S123 (SW)		E17-S130		E23-S2(SW)		E23-S4(SW)		E23-S7(SW)		E23-S8(SW)		E23-S29	
Sample Date		GA PMC	10/8/2020		10/8/2020		9/17/2020		9/17/2020		10/8/2020		10/16/2020		10/16/2020		4/19/2021		4/21/2021		4/21/2021		4/19/2021		4/19/2021		4/19/2021		4/19/2021		4/6/2021		4/6/2021		4/6/2021		4/6/2021		4/6/2021	
Lab Report No.			GCG93414		GCG93414		GCG79587		GCG79587		GCG93386		GCG98408		GCG98408		GCI10894		GCI13028		GCI13028		GCI10894		GCI10894		GCI10894		GCI10894		GCH93186		GCH93186		GCH93186		GCH93186		GCH93186	
Parameter			R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F
Metals																																									
Arsenic	mg/l	0.05	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	mg/l	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	mg/l	0.005	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Silver	mg/l	0.036	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi-Volatile Organic Compounds (SVOCs)																																								
Acenaphthene	µg/l	4,200*[5]	0.50	U	0.50	U	NA		NA		NA		NA		NA		**1.7**		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benz(a)anthracene	µg/l	0.6[5]	0.05	U	0.05	U	NA		NA		NA		NA		NA		**0.14**		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Benzo(a)pyrene	µg/l	20[5]	0.20	U	0.20	U	NA		NA		NA		NA		NA		0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Benzo(b)fluoranthene	µg/l	0.8[5]	0.07	U	0.07	U	NA		NA		NA		NA		NA		**0.08**		0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
Fluoranthene	µg/l	2,800[5]	0.50	U	0.50	U	NA		NA		NA		NA		NA		**0.93**		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Fluorene	µg/l	2,800[5]	0.50	U	0.50	U	NA		NA		NA		NA		NA		**1.0**		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Indeno(1,2,3-cd)pyrene	µg/l	1*[5]	0.10	U	0.10	U	NA		NA		NA		NA		NA		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Naphthalene	µg/l	2,800[5]	0.50	U	0.50	U	NA		NA		NA		NA		NA		**2.7**		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Phenanthrene	µg/l	2,000[5]	0.06	U	0.06	U	NA		NA		NA		NA		NA		**2.6**		**0.08**		0.06	U	**0.08**		0.06	U	0.06	U	0.06	U	**0.36**		0.06	U	0.06	U	0.06	U	**0.07**		0.06	U
Pyrene	µg/l	2,000[5]	0.50	U	0.50	U	NA		NA		NA		NA		NA		**0.58**		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Polychlorinated Biphenyls (PCBs)																																								
Aroclor-1254	µg/l	--	NA		NA		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1260	µg/l	--	NA		NA		0.50	U	0.50	U	**1.00**		0.50	U	0.50	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total PCBs	µg/l	0.5	NA		NA		0.50	U, Y	0.50	U, Y	**1.00**	Y	0.50	U, Y	0.50	U, Y	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
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5. SPLP PAH results compared to 10 times the applicable Groundwater Protection Criteria (GWPC) in accordance with the RSRs.

NA	Not analyzed.
BOLD	Compound reported.
mg/L	milligrams per liter
µg/L	micrograms per liter
(SW)	sidewall sample
R	Laboratory Analytical Result
F	Laboratory Flag/Qualifier
U	Analyte not detected above laboratory reporting limit shown
Y	Sum of Analytes
--	Criteria not estalished.
I/C DEC	Industrial / Commercial Direct Exposure Criteria
GA PMC	GA Pollutant Mobility Criteria
RSRs	Remedial Standard Regulations
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	United States Environmental Protection Agency
SPLP	Synthetic Precipitation Leaching Procedure

\\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Berlin Settling Pond\2021 Remedial Action Report\3_Tables\[Table 3. SPLP Analytical Summary Table_QC_MDM.xlsx]PCB Results

APPENDIX A
REGULATORY APPROVALS, SUBMITTALS, AND MODIFICATIONS

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

December 26, 2018

Ellen K. Angley
107 Selden Street
Berlin, CT 06037

Re: Final Consent Order - COWSPCB 16-002

Dear Ms. Angley:

Enclosed is a certified copy of the consent order negotiated between The Connecticut Light and Power Company dba Eversource Energy and the Department of Energy and Environmental Protection.

If you have any questions regarding this consent order, please contact Lori Saliby at lori.saliby@ct.gov or 860-424- 3329.

Sincerely,

Yvonne Bolton

Yvonne Bolton
Chief, Bureau of Materials Management and Compliance Assistance

Enc Final Consent Order
Sent via electronic certified mail

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

I certify that this document is a true copy of a record (original or photocopy, whichever is applicable) on file at the Department of Energy and Environmental Protection.
Signature (Your title), Department of Energy and Environmental Protection

STATE OF CONNECTICUT :
:
v. :
: ORDER NO. COWSPCB 16-002
THE CONNECTICUT LIGHT AND
POWER COMPANY
DBA EVERSOURCE ENERGY :
: Date of Issuance December 26, 2018

CONSENT ORDER

A. With the agreement of The Connecticut Light and Power Company dba Eversource Energy ("Respondent"), the Commissioner of Energy and Environmental Protection ("the Commissioner") finds:

1. Respondent has used a stormwater settlement basin ("Settling Basin") for the collection of storm water from the adjacent parking lot to the west. The Settling Basin is located at the southeast portion of 107 Selden Street in Berlin, Connecticut ("the Site"), more fully described in a deed which is recorded in Book 95 on Page 608 in the Town of Berlin Land Records.

2. Respondent used the Settling Basin at the Site for collection of storm water conveyed from the adjacent parking lot to the west.

3. Respondent submitted a Remedial Investigation Sampling Plan ("the Plan") to the Commissioner dated February 27, 2012 pertaining to the Settling Basin at the Site.

4. The Plan documented PCBs in sediments at up to 550 ppm.

5. Respondent submitted to the Department of Energy and Environmental Protection ("Department") a Notification of Significant Environmental Hazard on October 1, 2012 for sediment contamination in the Settling Basin at up to 63 ppm PCBs in the uppermost two feet below ground surface.

6. Respondent submitted to the United States Environmental Protection Agency a Self-Implementing and Risk-Based Hybrid Clean-up Plan ("SIP") dated September 30, 2015 pertaining to the Settling Basin at the Site.

7. The SIP documented PCBs in sediments at up to 770 ppm.

8. Respondent submitted to the Department a Screening Level Ecological Risk Assessment dated January 13, 2015.

9. By virtue of the above, Respondent created and maintained, without a permit, a condition which reasonably could be expected to create a source of pollution to the waters of the state and created and maintained pollution to the waters of the state in violation of Connecticut General Statutes ("CGS") §22a-427 and §22a-430; has disposed of PCBs in a manner other than that specified in violation of CGS §22a-467.

10. The documents identified in Paragraphs A.3., A.5. and A.6. satisfy Paragraphs B.1.a. through B.1.e of this Consent Order.

11. By agreeing to the issuance of this Consent Order Respondent makes no admission of fact or law with respect to the matters addressed herein, other than the facts asserted in Paragraph A.1.

B. With the agreement of Respondent, the Commissioner, acting under CGS §22a-6, §22a-424, §22a-425, §22a-430, §22a-432, §22a-438 and §22a-469, orders Respondent as follows:

1. a. On or before thirty (30) days after issuance of this Consent Order, Respondent shall retain one or more qualified consultants acceptable to the Commissioner to prepare the documents and implement or oversee the actions required by this Consent Order and shall, by that date, notify the Commissioner in writing of the identity of such consultants. Respondent shall retain one or more qualified consultants acceptable to the Commissioner until this Consent Order is fully complied with, and within ten (10) days after retaining any consultant other than one originally identified under this Paragraph, Respondent shall submit to the Commissioner a description of a consultant's education, experience and training which is relevant to the work required by this Consent Order within ten (10) days after a request for such description. Nothing in this Paragraph shall preclude the Commissioner from finding a previously acceptable consultant unacceptable.

b. On or before thirty (30) days after issuance of this Consent Order, Respondent shall submit for the Commissioner's review and written approval a Scope of Work for investigating the potential impact of pollution on human health and the environment at the Site, including but not limited to, the existing and potential extent and degree of soil, ground water and surface water pollution both on and emanating from the Site from known discharges and/or releases. Such Scope of Work shall include, at a minimum, the proposed locations and depths of ground water monitoring wells and soil and surface water sampling; a proposed sampling and analytical program, including at least the parameters to be tested, sampling and analytical methods, and quality assurance and quality control procedures; and a schedule for conducting the investigation required by this Paragraph.

c. On or before thirty (30) days after written approval of the Scope of Work, Respondent shall perform the investigation and other actions specified in the approved Scope of Work in accordance with the approved Scope of Work and the approved schedule. Respondent shall notify the Commissioner in writing of the date and time of installation of monitoring wells and of each soil and ground water sampling event at least six (6) business days prior to such installation or sampling.

d. If the investigation carried out under the approved Scope of Work does not fully characterize the extent and degree of soil, sediment, surface water and ground water pollution to the satisfaction of the Commissioner, additional investigation(s) shall be performed in accordance with a supplemental plan and schedule approved in writing by the Commissioner. Unless otherwise specified in writing by the Commissioner, the supplemental plan and schedule shall be submitted for the Commissioner's review and written approval on or before thirty (30) days after notice from the Commissioner that they are required.

e. On or before thirty (30) days after completion of the investigation and other activities performed in accordance with the approved Scope of Work and any supplemental plan performed pursuant to Paragraph B.1.d. above, Respondent shall submit for the Commissioner's review and written approval a comprehensive and thorough report which describes in detail the investigation(s) performed pursuant to Paragraphs B.1.c. and B.1.d. above, and which defines the existing and potential extent and degree of soil, sediment, surface water and ground water pollution which is on, is emanating from or has emanated from the Site; and which evaluates the alternatives for remedial actions to abate such pollution in accordance with the standards adopted pursuant to RCSA Sections 22a-133k-1, *et seq*. This evaluation shall include, but not be limited to, any

alternative specified or approved by the Commissioner; shall state in detail the recommended schedule for performing each alternative; shall list all permits and approvals required for each alternative, including, but not limited to, any permits required under CGS Sections 22a-32, 22a-42a, 22a-342, 22a-361, 22a-368, or 22a-430; shall propose a preferred alternative with supporting justification therefore; and shall propose a detailed remedial action plan and schedule to perform the preferred remedial actions. The schedule required by this Paragraph shall also include a schedule for applying for and obtaining all permits and approvals required for such remedial actions. Such report shall also include but not be limited to a soil, sediment, surface water and ground water monitoring program to determine the degree to which the approved remedial actions have been effective, and a schedule for performing the approved monitoring program.

f. Respondent shall perform the approved remedial actions in accordance with the plan and schedule as approved in writing by the Commissioner. On or before fifteen (15) days of completing such remedial actions, Respondent shall certify to the Commissioner in writing that the remedial actions have been completed as approved.

g. Respondent shall perform the monitoring program approved pursuant to Paragraph B.1.e. above to determine the effectiveness of the remedial actions. Such monitoring shall be conducted in accordance with the approved schedule. In addition, on a schedule established by the Commissioner in writing, or, if no such schedule is established, on an quarterly basis beginning no later than ninety (90) days after initiation of the approved remedial actions, Respondent shall submit for the Commissioner's review and written approval a report describing the results of the monitoring program to determine the effectiveness of the remedial actions.

h. If the approved remedial actions do not result in the prevention and abatement of soil, sediment, surface water and ground water pollution to the satisfaction of the Commissioner, additional remedial actions and measures for monitoring and reporting on the effectiveness of those actions shall be performed in accordance with a supplemental plan and schedule approved in writing by the Commissioner. Unless otherwise specified in writing by the Commissioner, the supplemental plan and schedule to implement such plan shall be submitted for the Commissioner's review and written approval on or before thirty (30) days after notice from the Commissioner that such plan and schedule are required.

2. Progress reports. On or before the last day of each quarter following issuance of this Consent Order and continuing until all actions required by this Consent Order have been completed as approved and to the Commissioner's satisfaction, Respondent shall submit

a progress report to the Commissioner describing the actions which Respondent has taken to date to comply with this Consent Order.

3. Full compliance. Respondent shall not be considered in full compliance with this Consent Order until all actions required by this Consent Order have been completed as approved and to the Commissioner's satisfaction.

4. Civil penalty. Respondent shall pay a penalty of $70,000 as the total civil penalty to be sought by the Commissioner for those and only those violations described in Paragraph A of this Consent Order. The penalty is payable as follows: On or before sixty (60) days after issuance of this Consent Order, Respondent shall pay $25,000 in accordance with Paragraph B.5. of this Consent Order and Respondent shall pay $45,000 as a Supplemental Environmental Project in accordance with Paragraph B.6. of this Consent Order.

5. Payment of penalties. Payment of penalties under this Consent Order shall be mailed or personally delivered to the Department of Energy and Environmental Protection, Bureau of Financial and Support Services, Accounts Receivable Office, 79 Elm Street, Hartford, CT 06106-5127, and shall be by certified or bank check payable to the "Connecticut Department of Energy and Environmental Protection" The check shall state on its face, "Bureau of Materials Management, Emergency Response & Spill Prevention Division civil penalty, Consent Order COWSPCB 16-002."

6. Supplemental Environmental Project. Respondent shall undertake the following Supplemental Environmental Project ("SEP") requiring an expenditure of at least $45,000:

a. On or before 60 days after the date of issuance of this Consent Order, Respondent shall make payment of $45,000 to the Town of Wallingford to be applied solely towards the construction of the Hall Avenue Pedestrian Improvements and Senior Center Trail (also referred to as State Project #148-208) and for no other purpose. No later than June 1, 2019, the Respondent shall provide an accounting demonstrating how the Town used the funds consistent with this SEP and shall also provide a letter signed by the Mayor of the Town of Wallingford, indicating that the Town has received $45,000 from the Respondent and has used the funds only for the construction of the Hall Avenue Pedestrian Improvements and Senior Center Trail project and for no other purpose. The Respondent shall not request that the Commissioner approve the use of the SEP funds for any purpose other than that identified in this Paragraph.

b. If Respondent fails to perform the SEP in accordance with Paragraph B.6.a., regardless of the reason, including that the Town did not construct the Hall Avenue

Pedestrian Improvements and Senior Center Trail project, then no later than 7 days after such nonperformance, Respondent shall notify the Commissioner in writing of such noncompliance and shall remit a payment of $45,000 dollars plus 10% in accordance with payment of penalty procedures in Paragraph B.5.

c. If and when Respondent disseminates any publicity, including but not limited to any press releases regarding funding a SEP, Respondent shall include a statement that such funding is in partial settlement of an enforcement action brought by the Commissioner.

d. Respondent shall not claim or represent that any SEP payment made pursuant to this Consent Order constitutes an ordinary business expense or charitable contribution or any other type of tax deductible expense, and Respondent shall not seek or obtain any other tax benefit such as a tax credit as a result of the payment under this paragraph.

7. Sampling. All sampling required by this Consent Order shall be performed in accordance with procedures specified or approved in writing by the Commissioner, or, if no procedures have been specified or approved, in accordance with the most recent final version of the U.S. Environmental Protection Agency publication SW-846 entitled, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", the most recent version of the Department's "Site Characterization Guidance Document", and relevant policies and guidelines issued by the Commissioner.

8. Sample analyses. All sample analyses which are required by this Consent Order and all reporting of such sample analyses shall be conducted by a laboratory certified by the Connecticut Department of Public Health and approved to conduct such analyses.

The Reasonable Confidence Protocols shall be used when there is a method published by Department. In all cases where the Reasonable Confidence Protocol method is used, a properly completed laboratory QA/QC certification form, certified by the laboratory shall be provided to the Commissioner with the analytical data.

In cases where a Reasonable Confidence Protocol method has not been published, the analytical data shall be generated using a method approved by the Commissioner, such method shall include and report a level of quality control and documentation equivalent to the Reasonable Confidence Protocols.

The reporting limit shall be established consistent with the Reasonable Confidence Protocols and standard industrial and laboratory practices. The Reporting Limit shall not be set at levels greater than those used in such standard practices, as determined by the Commissioner, in consultation with the Commissioner of Public Health and in no

case shall be greater than the Applicable Criteria or Background Concentration established in 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies. The Reporting Limit for a given sample shall be corrected for specific sample weight or volume, and dilutions, and, for soil and sediment samples moisture content (reported as dry weight).

9. Approvals. Respondent shall use best efforts to submit to the Commissioner all documents required by this Consent Order in a complete and approvable form. If the Commissioner notifies Respondent that any document or other action is deficient, and does not approve it with conditions or modifications, it is deemed disapproved, and Respondent shall correct the deficiencies and resubmit it within the time specified by the Commissioner or, if no time is specified by the Commissioner, within thirty (30) days of the Commissioner's notice of deficiencies. In approving any document or other action under this Consent Order, the Commissioner may approve the document or other action as submitted or performed or with such conditions or modifications as the Commissioner deems necessary to carry out the purposes of this Consent Order. Nothing in this Paragraph shall excuse noncompliance or delay.

10. Definitions. As used in this Consent Order, "Commissioner" means the Commissioner or a representative of the Commissioner.

11. Dates. The date of "issuance" of this Consent Order is the date the order is deposited in the U.S. mail or personally delivered, whichever is earlier. The date of submission to the Commissioner of any document required by this Consent Order shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this Consent Order, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is deposited in the U.S. mail or is personally delivered, whichever is earlier. Except as otherwise specified in this Consent Order, the word "day" as used in this Consent Order means calendar day. Any document or action which is required by this Consent Order to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed by the next day which is not a Saturday, Sunday or Connecticut or federal holiday.

12. Certification of documents. Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under this Consent Order shall be signed by Respondent or, if a Respondent is not an individual, by such Respondent's chief executive officer or a duly authorized representative of such officer, as those terms are defined in §22a-430-3(b)(2) of the Regulations of Connecticut State Agencies, and by the individual(s) responsible for actually preparing such document, and each such individual shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law."

13. Noncompliance. This Consent Order is a final order of the Commissioner with respect to the matters addressed herein, and is nonappealable and immediately enforceable. Failure to comply with this Consent Order may subject Respondent to an injunction and penalties.

14. False statements. Any false statement in any information submitted pursuant to this Consent Order is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law.

15. Notice of transfer; liability of Respondent. Until Respondent has fully complied with this Consent Order, Respondent shall notify the Commissioner in writing no later than 15 days after transferring all or any portion of the facility, the operations, the Site or the business which is the subject of this Consent Order or after obtaining a new mailing or location address. Respondent's obligations under this Consent Order shall not be affected by the passage of title to any property to any other person or municipality.

16. Commissioner's powers. Except as provided hereinabove with respect to payment of civil penalties, nothing in this Consent Order shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for past, present, or future violations of law. If at any time the Commissioner determines that the actions taken by Respondent pursuant to this Consent Order have not successfully corrected all violations, fully characterized the extent or degree of any pollution, or successfully abated or prevented pollution, the Commissioner may institute any proceeding to require Respondent to undertake further investigation or further action to prevent or abate violations or pollution.

17. Respondents' obligations under law. Nothing in this Consent Order shall relieve Respondent of other obligations under applicable federal, state and local law.

18. No assurance by Commissioner. No provision of this Consent Order and no action or inaction by the Commissioner shall be construed to constitute an assurance by the

Commissioner that the actions taken by Respondent pursuant to this Consent Order will result in compliance or prevent or abate pollution.

19. Access to site. Any representative of the Department of Energy and Environmental Protection may enter the facility or the Site without prior notice for the purposes of monitoring and enforcing the actions required or allowed by this Consent Order.

20. No effect on rights of other persons. This Consent Order neither creates nor affects any rights of persons or municipalities that are not parties to this Consent Order.

21. Notice to Commissioner of changes. Within fifteen (15) days of the date Respondent becomes aware of a change in any information submitted to the Commissioner under this Consent Order, or that any such information was inaccurate or misleading or that any relevant information was omitted, Respondent shall submit the correct or omitted information to the Commissioner.

22. Notification of noncompliance. In the event that Respondent or any one or more of them become aware that they did not or may not comply, or did not or may not comply on time, with any requirement of this Consent Order or of any document required hereunder, the Respondent shall immediately notify by telephone the individuals identified in the next Paragraph and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. Within five (5) days of the initial notice, Respondent shall submit in writing the date, time, and duration of the noncompliance and the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and Respondent shall comply with any dates which may be approved in writing by the Commissioner. Notification by Respondent shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing.

23. Submission of documents. Any document required to be submitted to the Commissioner under this Consent Order shall, unless otherwise specified in this Consent Order or in writing by the Commissioner, be directed to:

Mr. Gary Trombly
Environmental Analyst 3
Storage Tank & PCB Enforcement Unit
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106

Respondent consents to the issuance of this Consent Order without further notice. The undersigned certifies that she is fully authorized to enter into this Consent Order and to legally bind the Respondent to the terms and conditions of the Consent Order.

THE CONNECTICUT LIGHT AND POWER COMPANY
DBA EVERSOURCE ENERGY

BY: _____
Ellen K. Angley
Vice President Supply Chain, Environmental Affairs
& Property Management

DATE: 12/19/18

Issued as a final order of the Commissioner of Energy and Environmental Protection.

BY: _____
Robert E. Kaliszewski
Deputy Commissioner

DATE: 12/26/18

DEEP - MMCA
Rosalynn Grzywinski
79 ELM ST

HARTFORD CT 06106

USPS CERTIFIED MAIL™

9414 8149 0158 5922 0556 28

Ellen K. Angley
107 Selden Street

Berlin CT 06037-1616

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

CONDITIONAL APPROVAL

August 7, 2019

Received 8/9/2019

Mr. Matthew Calvert
Eversource Energy Service Company
107 Selden Street
Berlin, CT 06037

Re: Berlin Settling Basin
107 Selden Street
Berlin, CT
Consent Order (CO) COWSPCB 16-002

Dear Mr. Calvert:

The Storage Tank & PCB Enforcement Unit of the Emergency Response and Spill Prevention Division of the Bureau of Materials Management and Compliance Assurance (BMMCA) has reviewed the document entitled, *Berlin Settling Basin Remedial Action Plan*, dated January 2019 (the Plan) received by the BMMCA on January 25, 2019, prepared for Eversource by Weston and Sampson. The Plan was submitted pursuant to paragraph B.1.e. of Consent Order # COWSPCB 16-002, issued on December 26, 2018 (the CO). Additional information supplementing the Plan was requested by DEEP to Eversource via email correspondence on various dates from May 2019 through June 2019. Responses to DEEP comments and requests were provided by Eversource on May 17, 2019 and June 18, 2019.

Based upon the Plan and supplemental information provided by Eversource in response to the DEEP requests, the documents fulfill the requirements of B.1.e. and hereby is **approved with conditions**.

This approval is subject to the following conditions:

(1) The site is subject to the cleanup provisions outlined within the Toxic Substance and Control Act (TSCA) 40 CFR 761. Therefore, on June 27, 2019, the United States Environmental Protection Agency (USEPA) issued a *PCB Cleanup and Risk-Based Disposal Approval under 40 CFR 761.61(a) and (c) Berlin Settling Basin* (USEPA Approval) authorizing Eversource to proceed with the Plan. It is expected that all conditions listed in the USEPA Approval shall be adhered to in order to satisfy cleanup and disposal of PCBs at the site consistent with the CO.

This approval does not relieve you of the obligation to obtain any other authorizations as may be required by Federal, State or Local laws or regulations. Nothing herein precludes DEEP from taking any action or instituting any proceeding should actions to date prove inadequate or for any other appropriate purpose.

If you have any questions regarding the above, please contact Gary Trombly by e-mail gary.trombly@ct.gov or phone at (860) 424-3486.

Sincerely,

Peter Zack, Director
Emergency Response & Spill
Prevention Division

cc: Kimberly Tisa, US EPA R1 PCB Coordinator

Sent Certified Mail #
Return Receipt Requested

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JUN 27 2019

Eversource Energy Service Company
Attn: Matt Calvert, Senior Environmental Specialist
107 Selden Street, BNM2
Berlin, Connecticut 06037

Re: PCB Cleanup and Risk-Based Disposal Approval under 40 CFR §§ 761.61(a) and (c)
Berlin Settling Basin

Dear Mr. Calvert:

This is in response to the Notification by Eversource Energy Service Company ("Eversource")[1] to address PCB-contaminated soil located in and adjacent to the settling basin ("the Site") on its property at 107 Selden Street in Berlin, Connecticut, as authorized by the PCB regulations. Soil located within and adjacent to the Site contains PCBs that exceed the allowable PCB level for *unrestricted use* under the federal PCB regulations at 40 CFR § 761.61(a). Eversource has requested approval to address the PCB-contaminated soil and concrete located within the Site area under the PCB cleanup and disposal options at 40 CFR §§ 761.61(a) and (c).

In the Notification, Eversource has proposed the following activities:

1. Collect pre-excavation (i.e., verification samples) in the location where sheet piling will be required to limit groundwater infiltration (i.e., along the stream) to confirm PCB concentrations are less than or equal to ("≤") 1 part per million ("ppm");

2. Excavate the catch basin and collect samples from the inlet and outlet of the remaining drainage piping to confirm PCB concentrations for either off-site disposal or for abandonment in-place if PCB concentrations are ≤ 10 ppm;

3. Excavate PCB-contaminated soil and concrete with greater than or equal to ("≥") 50 ppm and greater than (">") 10 ppm but less than ("<") 50 ppm and dispose off-site as a *PCB remediation waste* in accordance with 40 CFR § 761.61(a)(5)(i)(B)(*2*)(*iii*) and 40 CFR § 761.61(a)(5)(i)(B)(*2*)(*ii*), respectively (Attachment 2);

---

1 Information was submitted by Eversource to satisfy the notification requirement under 40 CFR §§ 761.61(a)(3) and (c). Information was provided dated September 2015 (*Settling Basin Remedial Action Plan);* January 2019 (*Settling Basin Remedial Action Plan* (supercedes September 2015 submittal)); April 30, 2019 (Responses to EPA verbal comments of April 18, 2019); May 2, 2019 (email Response to EPA comments of May 1, 2019); May 17, 2019 (email Response to CTDEEP comments); June 4, 2019 (email cross-sections of soil cap area); June 10, 2019 (emails clarification on management of drainage piping); June 11, 2019 (email clarification on < 10 ppm PCB soil); and, June 18, 2019 (emails Responses to EPA comments). These submittals will be referred to as the "Notification."

4. Following removal of ≥ 50 ppm PCB-contaminated soil, collect post-excavation samples in accordance with Subpart O to confirm PCB concentrations are < 50 ppm prior to excavation of < 50 ppm PCB-contaminated soil;

5. Excavate PCB-contaminated soil (with exception of sample location B190), with > 1 ppm but less than or equal to ("≤") 10 ppm located outside the Settling Basin and consolidate into the Settling Basin;

6. Collect post-excavation samples in accordance with 40 CFR Part 761 Subpart O to confirm that PCB concentrations remaining outside the Settling Basin are ≤ 1 ppm (with exception of sample location B190 and the drainage piping) and within the Settling Basin are ≤ 10 ppm;

7. Construct a clean cap over > 1 ppm but ≤ 10 ppm *PCB remediation waste* comprised of an orange geotextile and minimum 4-feet of clean soil, with exception of the box culvert where the requirements under 40 CFR § 761.30(p) for *Continued use of porous surfaces contaminated with PCBs regulated for disposal by spills of liquid PCBs* will be implemented if PCB concentrations > 1 ppm are present (Attachment 3);

8. Record a deed notice in accordance with 40 CFR § 761.61(a)(8) to document PCB concentrations remaining at the Site and any use restrictions and cap maintenance requirements.

Eversource has proposed alternatives to the prescriptive requirements under 40 CFR § 761.61(a). Specifically, Eversource is proposing the following: consolidation of PCB-contaminated soil with ≤ 10 ppm; modification to the soil sampling requirements under 40 CFR § 761.616(a)(5)(i)(B)(*2*)(*i*) for off-site disposal; a cap design modification; and, pre-verification sampling in locations where sheet piling will be installed to limit groundwater infiltration and to facilitate excavation.

EPA has determined that: (1) consolidation of ≤ 10 ppm *PCB remediation waste* is reasonable as it will reduce the overall footprint of the PCB-contaminated area; (2) for segregation of ≥ 50 ppm PCB-contaminated soil with off-site disposal, Eversource will be collecting samples in accordance with Subpart O to confirm remaining PCB concentrations are < 50 ppm prior to excavation of < 50 ppm PCB-contaminated soil; (3) the proposed cap is consistent with the Connecticut Department of Energy and Environmental Protection ("CTDEEP") regulations for ≤ 10 ppm PCB-contaminated soil for an Industrial/Commercial setting; and, (4) the proposed pre-verification sampling at the stream where sheet piling will be required for excavation is reasonable. EPA finds that the proposed consolidation, alternative sampling, and alternative cap, once completed, will not present an unreasonable risk of injury to health or the environment. EPA applies this no unreasonable risk standard in accordance with the PCB regulations at 40 CFR § 761.61(c), and the Toxic Substances Control Act, at 15 C § 2605(e).

Eversource may proceed with its plan in accordance with 40 CFR §§ 761.61(a) and (c), and its Notification, subject to this Approval and the conditions of Attachment 1.

This Approval does not release Eversource from any applicable requirements of federal, state or local law, including those requirements related to groundwater monitoring or to remediation of other contaminants at the property by the Connecticut Department of Energy and Environmental Protection.

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator (LCRD07-2)
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912
Telephone: (617) 918-1527
Tisa.kimberly@epa.gov

EPA encourages the compliance with greener cleanup practices for all cleanup projects, and recommends adherence to the ASTM Standard Guide to Greener Cleanups E2893-16 (Guide) for work conducted under this Approval and the Notification. Greener Cleanups is the practice of integrating options that minimize the environmental impacts of cleanup actions in order to incorporate practices that maximize environmental and human benefit. Please see Section 6 of the Guide for the Best Management Practices (BMP) Process dated May 2016 (*See* www.astm.org/Standards/E2893.htm *for additional information*). EPA encourages you to review the Guide and implement any practices that are feasible. If implemented, the PCB completion report (see Attachment 1, Condition 21) should include a section on BMP Documentation, as described in Section 6.6.5 of the Guide.

EPA shall not consider this specific project complete until it has received all submittals required under this Approval, including construction of the clean cap and recording of the deed notice. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

Nancy Barmakian

Nancy Barmakian, Acting Division Director
Land, Chemicals and Redevelopment Division

Attachment 1: Approval Conditions
Attachment 2: Soil Excavation Areas (Figure 6)
Attachment 3: Post-Excavation Soil Cap and Deed Notice Area (Figure 7)

cc: Gary Trombly, CTDEEP
File

ATTACHMENT 1

PCB CLEANUP AND RISK-BASED DISPOSAL APPROVAL CONDITIONS
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
107 SELDEN STREET
BERLIN, CONNECTICUT

GENERAL CONDITIONS

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the PCB-contaminated soil and concrete located within and adjacent to the area of the Settling Basin (the "Site") as identified in the Notification.

    a. In the event that Eversource Energy Service Company ("Eversource") identifies PCB-contaminated soil or other media not described in the Notification, which is subject to cleanup and disposal under the PCB regulations, Eversource shall be required to notify EPA and clean up such PCB-contaminated soil and other media in accordance with 40 CFR Part 761.

    b. Eversource may submit a separate plan to address such PCB contamination not identified in the Notification or may modify the Notification to incorporate cleanup of such PCBs under this Approval in accordance with Condition 16.

2. Eversource shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.

3. In the event that the cleanup and disposal plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.

4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.

5. Eversource must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, Eversource shall contact EPA within 24 hours for direction on PCB cleanup and sampling requirements.

[2] Information was submitted by Eversource to satisfy the notification requirement under 40 CFR §§ 761.61(a)(3) and (c). Information was provided dated September 2015 (*Settling Basin Remedial Action Plan);* January 2019 (*Settling Basin Remedial Action Plan* (supercedes September 2015 submittal)); April 30, 2019 (Responses to EPA verbal comments of April 18, 2019); May 2, 2019 (email Response to EPA comments of May 1, 2019); May 17, 2019 (email Response to CTDEEP comments); June 4, 2019 (email cross-sections of soil cap area); June 10, 2019 (emails clarification on management of drainage piping); June 11, 2019 (email clarification on < 10 ppm PCB soil); and, June 18, 2019 (emails Responses to EPA comments). These submittals will be referred to as the "Notification".

6. Eversource is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time Eversource has or receives information indicating that Eversource or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by Eversource are authorized to conduct the activities set forth in the Notification. Eversource is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.

8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release Eversource from compliance with any applicable requirements of TSCA or of any other federal, state or local law; or 3) release Eversource from liability for, or otherwise resolve, any violations of TSCA or of any other federal, state or local law.

9. Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

NOTIFICATION AND CERTIFICATION CONDITIONS

10. This Approval may be revoked if the EPA does not receive written notification from Eversource of its acceptance of the conditions of this Approval within 10 business days of receipt.

11. Prior to beginning soil excavation work authorized under this Approval, Eversource shall submit the following information:

    a. Pre-verification sampling results for the soil located within the sheet piling area along the stream with any proposed modifications that are necessary to the remediation plan based on these results;

    b. a certification signed by its selected oversight contractor and remediation contractor, if applicable, stating that the contractor(s) has read and understands the Notification, and agrees to abide by the conditions specified in this Approval; and,

    c. a certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the extraction and analytical method requirements and the quality assurance requirements specified in the Notification and in this Approval.

CLEANUP AND DISPOSAL CONDITIONS

12. The cleanup level for *PCB remediation waste* at the Site shall be less than or equal to ("≤") 10 mg/Kg (or parts per million ("ppm")).

    a. All post-cleanup verification sampling for bulk *PCB remediation waste* (i.e., soil) shall be performed on a bulk basis (i.e. mg/Kg) and PCB analytical results reported on a dry weight basis. Verification sampling for bulk *PCB remediation waste* shall comply with the procedures and frequencies under Subpart O. Confirmatory samples shall be collected from both excavation bottoms and sidewalls, as applicable.

        i) Following excavation of the greater than or equal to ("≥") 50 ppm bulk *PCB remediation waste*, samples shall be collected in accordance with 40 CFR Part 761 Subpart O to confirm that the ≥ 50 ppm bulk *PCB remediation waste* has been removed prior to beginning removal of < 50 ppm bulk *PCB remediation waste*;

        ii) Composite sampling **may not** be conducted during the segregation of ≥ 50 ppm bulk *PCB remediation waste* from < 50 ppm bulk *PCB remediation waste* for off-site disposal.

    b. *Porous surfaces* (e.g., concrete) shall be sampled on a bulk basis (i.e., mg/Kg) and PCB analytical results reported on a dry weight analysis. Sampling for *porous surfaces* shall be conducted in accordance with the EPA Region 1 *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) Revision 4, May 5, 2011*, at a maximum depth interval of 0.5 inches.

    c. Chemical extraction for PCBs shall be conducted using Method 3500B/3540C of SW-846; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction or analytical method(s) is validated according to Subpart Q.

13. The disposal of *PCB remediation waste* shall be in accordance with 40 CFR § 761.61(a)(5). Specifically:

    a. PCB-contaminated soil and concrete (e.g., piping) with greater than (>) 10 ppm but < 50 ppm PCBs shall be disposed of in accordance with 40 CFR § 761.61(a)(5)(i)(B)(*2*)(*ii*) or 40 CFR § 761.61(a)(5)(i)(B)(*2*)(*iii*).

    b. PCB-contaminated soil and concrete with ≥ 50 ppm shall be disposed of in accordance with 40 CFR § 761.61(a)(5)(i)(B)(*2*)(*iii*).

14. All PCB waste (at any concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with 40 CFR § 761.40; stored in a manner prescribed in 40 CFR § 761.65; and, disposed of in accordance with 40 CFR § 761.61(a)(5), unless otherwise specified below:

    a. Non-liquid cleaning materials, such as PPE and similar materials resulting from decontamination, shall be disposed of in accordance with 40 CFR § 761.79(g)(6).

    b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).

    c. PCB-contaminated water generated during decontamination or dewatering shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under § 761.70.

INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

15. Eversource shall allow any authorized representative of the Administrator of the EPA to inspect the Site and to inspect records and take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by Eversource to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.

16. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).

17. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

18. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA's revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

19. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, including EPA's PCB Spill Cleanup Policy, or other applicable rules and regulations; if EPA finds that PCBs are migrating from the Site; or, if EPA finds that these activities present an unreasonable risk of injury to health or the environment.

RECORDKEEPING AND REPORTING CONDITIONS

20. Eversource shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of these activities shall be established and maintained by Eversource in one centralized location until such time as EPA approves in writing a request for an alternative disposition of such records. All records shall be made available for inspection by authorized representatives of EPA.

21. Eversource shall submit a final completion report in both a hard copy and electronic version (e.g., CD-ROM), to the EPA within 60 days of completion of the activities authorized under this Approval. Laboratory analytical reports may be provided in electronic format only. At a minimum, this final report shall include: a short narrative of the project activities with photographic documentation and Greener Cleanups BMP documentation, if implemented; characterization and confirmation sample analytical results; copies of the analytical chains of custody; field and laboratory quality control/quality assurance checks; the quantity of PCB waste disposed of off-site; copies of manifests and bills of lading; copies of certificates of disposal or similar certifications issued by the disposer; and, the estimated cost of the PCB remediation work.

22. Within sixty (60) days of completion of PCB remediation activities, Eversource shall submit to EPA a certification as required at § 761.61(a)(8)(i)(B), that it has recorded the notation on the deed as required under § 761.61(a)(8)(i)(A) with a copy of the recorded deed notice. The deed notice shall also include a requirement for maintenance of the soil cap to be constructed over > 1 ppm but ≤ 10 ppm *PCB remediation waste* remaining at the Site and for ensuring the requirements under 40 CFR § 761.30(p) are met for the box culvert, if applicable.

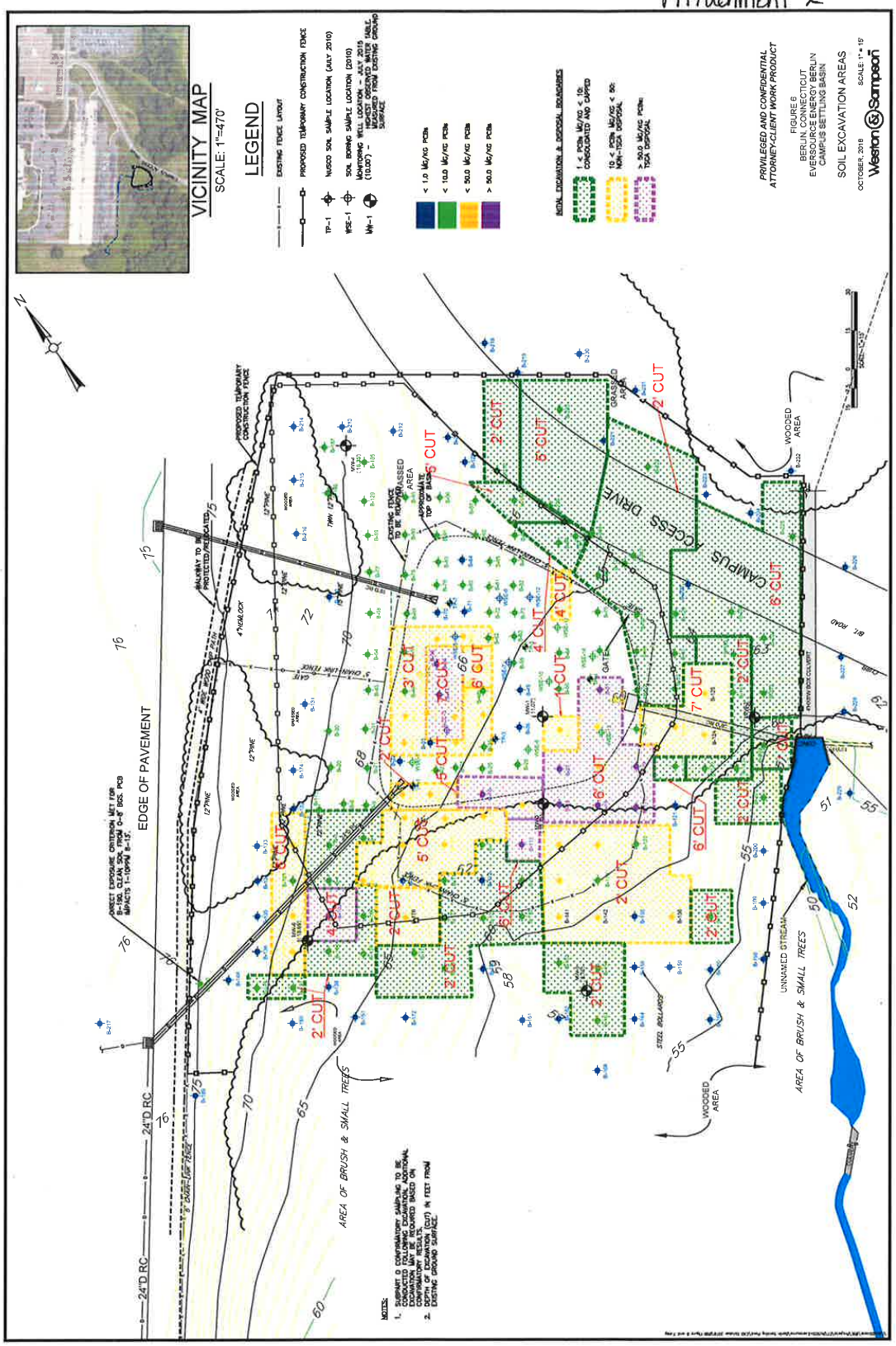
23. Required submittals shall be mailed to:

    Kimberly N. Tisa, PCB Coordinator
    United States Environmental Protection Agency
    5 Post Office Square, Suite 100 (LCRD07-2)
    Boston, Massachusetts 02109-3912
    Telephone: (617) 918-1527

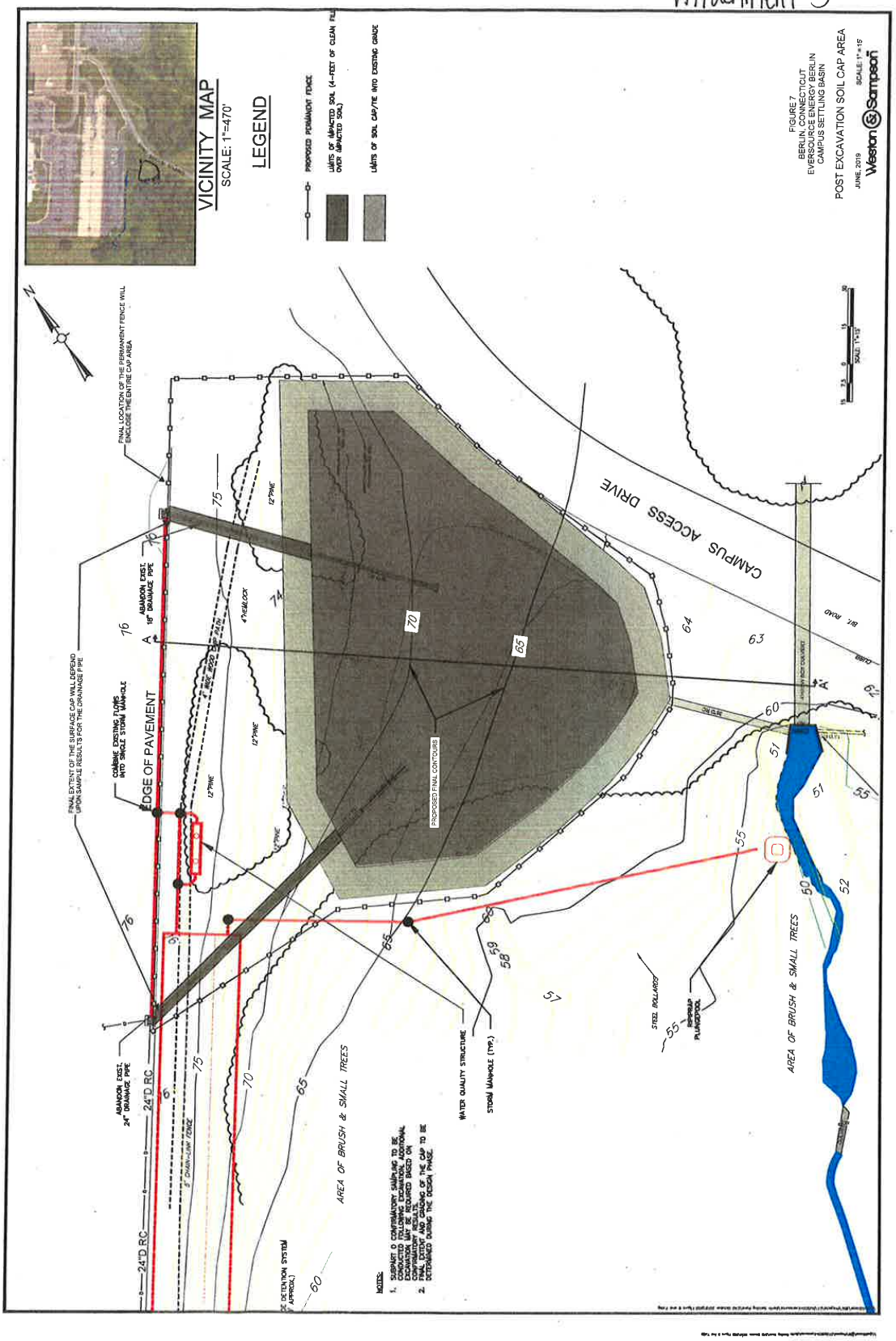
24. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

END OF ATTACHMENT 1

Attachment 2



Attachment 3



273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

February 12, 2020

Ms. Kimberly N. Tisa, PCB Coordinator (LCRD07-2)
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

Re: **Required Submittal under PCB Cleanup and Risk-Based Disposal Approval under 40 CFR §§ 761.61(a) and (c)**
Berlin Settling Basin
107 Selden Street, Belin, CT

Dear Ms. Tisa:

As required under Condition 11a in the PCB Cleanup and Risk-Based Disposal Approval under 40 CFR §§ 761.61(a) and (c) (EPA Approval), Connecticut Light & Power dba Eversource Energy (Eversource) is submitting pre-verification sampling results for the soil located within the sheet piling area along the stream. Moreover, this letter serves as notice to EPA under Condition 1a of the EPA Approval for PCB contaminated soils in the newly delineated area. Specifically, this notification applies to analytical results from catch basins and piping and the identification of PCB-contaminated soil that was not described in the EPA Approval. Laboratory analytical data reports for the results discussed in this submittal are included in **Attachment A**.

Condition 11a Sheet Pile Pre-Verification Sampling Results

Pre-verification sampling activities required under Condition 11a of the PCB Approval Conditions were conducted in January 2020 by Weston & Sampson, Engineers, Inc. (Weston & Sampson) in accordance with procedures described in the Notification. Specifically, as described in the April 30, 2019, email "Responses to EPA verbal comments of April 18, 2019". The location of the nine samples collected (SP-1 through SP-9) can be seen on **Figure 1**. A summary of the sample results can be found in **Table 1**.

All pre-verification sample results were ≤1 milligram per kilogram (mg/kg). As such, no modifications to procedures specified in the Notification are necessary.

Catch Basin and Piping Sampling

Sampling of the catch basins to be removed and piping that is proposed to be abandoned in place during the remediation was conducted as described in the April 30, 2019, email "Responses to EPA verbal comments of April 18, 2019" in January 2020. The sample locations are shown on **Figure 1** and sample results provided in **Table 2**. PCBs were not detected in the concrete samples collected. Where possible, the concrete piping will be abandoned in place. The concrete catch basins and concrete piping exposed during excavations for the installation of the stormwater system and during remediation will be disposed of in the same manner as the soil in which the concrete structure is located.

Condition 1a and 16 Stormwater System Modification and Additional PCB-Contaminated Soil

The design of the replacement stormwater system was finalized following receipt of the EPA Approval. The replacement stormwater system was moved north of the proposed location that was described in the application for EPA Approval. The revised location of the stormwater system was selected for its favorable topography for installation, a desire to construct the replacement drainage system in non-PCB impacted soil, and to minimize the limits of disturbance.

Installation of the replacement stormwater system at the location as shown on **Figure 1** and the desire to construct the system in soil not impacted by PCBs requires the remediation of PCB-impacted soil around boring location B-190. To delineate this area of remediation, additional sampling was conducted between December 2019 and February 2020. Sample locations are shown on **Figure 1** and the analytical data are provided in **Table 3**. Excavation limits of the newly delineated area are shown on **Figure 2**. This serves as the notice to EPA under Condition 1a of the EPA Approval for PCB contaminated soils in the newly delineated area.

During site remediation, Eversource shall remediate the newly delineated area in accordance with the procedures and conditions of the EPA Approval. Specifically:

- Soil with total PCB concentrations ≥50 mg/kg will be excavated, disposed as described in the Notification and contractor submittals, and removal verified by confirmatory sampling performed in accordance with the requirements of Subpart O;
- Soil with total PCB concentrations >1 mg/kg will be excavated, disposed as described in the Notification and contractor submittals, and removal verified by confirmatory sampling performed in accordance with the requirements of Subpart O;
- The selected disposal facility for soil with total PCB concentrations ≥50 mg/kg is Wayne Disposal, Inc. in Belleville, Michigan;
- The selected disposal facility for soil with total PCB concentrations >1 mg/kg <50 mg/kg is Waste Management, Inc. Turnkey Landfill in Rochester, New Hampshire (Turnkey).

Performance of remediation in this manner will comply with the procedures of the Notification and comply with the conditions of the EPA Approval. Work completed under this submittal will not commence until 14 calendar days have elapsed following receipt by EPA as required under Condition 16 of the Approval.

Sincerely,
WESTON & SAMPSON ENGINEERS, INC.

Ryan S. Bartosz, LEP
Senior Project Manager

Cc: Gary Trombly, CT DEEP
Matthew Calvert, Eversource

Attachments

Figure 1 – Additional Site Investigation: Sample Results
Figure 2 – Additional Site Investigation: Excavation Limits

Table 1 - Soil Analytical Results - Sheetpile Area
Table 2 - Concrete Analytical Results
Table 3 - Soil Analytical Results - Stormwater System Area

Attachment A – Analytical Data Reports

FIGURES

TABLES

ATTACHMENT A

ANALYTICAL DATA REPORTS

C-CB-S

PROPOSED WATER QUALITY CONTROL STRUCTURE

PROPOSED ELUR SUBJECT AREA DEFINED BY PROPOSED STEEL-BACKED TIMBER GUIDERAIL

PROPOSED STORMWATER STRUCTURES (TYP.)

PROPOSED SUBGRADE STORMWATER DETENTION CHAMBERS

SEE INSET 1

C-CB-N

C-FE-N

C-FE-N

PROPOSED STORMWATER OUTFALL

AREA OF BRUSH & SMALL TREES

AREA OF BRUSH & SMALL TREES

TYPE C CATCH BASIN T.F.=74.61 F.L.=70.21-24"N F.L.=70.21-18"SW

TYPE C CATCH BASIN T.F.=74.76 F.L.=HOODED-18"SE F.L.=66.16-12"NW F.L.=66.76-12"SW

TYPE C CATCH BASIN T.F.=74.61 F.L.=HOODED-18"SE F.L.=67.11-12"NW

BIT. PARKING LOT

BIT. PARKING LOT

BIT. CURB

4' WIDE WOOD CHIP PATH

5' CHAIN-LINK FENCE

24"RCP

18"RCP

12"PINE

4"HEMLOCK

30" RCP F.L.=47.54

30" RCP F.L.=47.17

36"RCP F.L.=52.96

6'W X 4'H BOX CULVERT F.L.=50.43

6'W X 4'H BOX CULVERT

18"RCP F.L.=50.86

8" WIDE CONC. HEADWALL

REMAINS OF 5' X 5' CONC. STRUCTURE TOP OF WALL=56.85

STEEL BULKHEAD

WATERCOURSE

"CAMPUS ACCESS DRIVE"

LEGEND

EXISTING FENCE LAYOUT

PROPOSED TEMPORARY CONSTRUCTION FENCE

B-1 (1.2) — SOIL BORING LOCATIONS (JUNE-JULY 2012 / APRIL 2014/ MAY-JUNE 2015) (1.2) : TOTAL PCB CONCENTRATION (MG/KG)

TP-1 — NUSCO SOIL SAMPLE LOCATION (JULY 2010)

WSE-1 — SOIL BORING SAMPLE LOCATION (2010)

MW-1 — MONITORING WELL LOCATION (JULY 2015)

B-188 — SOIL BORING SAMPLE LOCATION (2018)

B-237 — SOIL BORING SAMPLE LOCATION (DECEMBER 2019 TO FEBRUARY 2020)

CONCRETE SAMPLE LOCATION

BORING COMPLETED BUT NO DATA COLLECTED; EXTENT DEFINED

< 1.0 MG/KG PCBs

< 10.0 MG/KG PCBs

< 50.0 MG/KG PCBs

> 50.0 MG/KG PCBs

PLAN
SCALE: 1"=20'
0 20' 40' 60'

INSET 1

PLAN
SCALE: 1"=10'
0 10' 20' 30'

\\vesti03.local\WGS\Projects\C1TN\0200+Eversource\Berlin Settling Pond\2019-20 Remediation\CAD_SK Drawings\Figure 3_Sitework showing PCB Results_wDensity of SW Concept.dwg

FIGURE 1
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN
ADDITIONAL SITE INVESTIGATION:
SAMPLE RESULTS
FEBRUARY 2020 SCALE: AS SHOWN

Weston & Sampson

C-CB-S

PROPOSED WATER QUALITY CONTROL STRUCTURE

PROPOSED ELUR SUBJECT AREA DEFINED BY PROPOSED STEEL-BACKED TIMBER GUIDERAIL

PROPOSED STORMWATER STRUCTURES (TYP.)

PROPOSED SUBGRADE STORMWATER DETENTION CHAMBERS

SEE INSET 1

C-CB-N

C-FE-N

PROPOSED STORMWATER OUTFALL

PLAN
SCALE: 1"=20'

INSET 1

PLAN
SCALE: 1"=10'

LEGEND

EXISTING FENCE LAYOUT

PROPOSED TEMPORARY CONSTRUCTION FENCE

B-1 (1.2) — SOIL BORING LOCATIONS (JUNE-JULY 2012 / APRIL 2014/ MAY-JUNE 2015) (1.2) : TOTAL PCB CONCENTRATION (MG/KG)

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MW-1 — MONITORING WELL LOCATION (JULY 2015)

B-188 — SOIL BORING SAMPLE LOCATION (2018)

B-237 — SOIL BORING SAMPLE LOCATION (DECEMBER 2019 TO FEBRUARY 2020)

CONCRETE SAMPLE LOCATION

BORING COMPLETED BUT NO DATA COLLECTED; EXTENT DEFINED

< 1.0 MG/KG PCBs

< 10.0 MG/KG PCBs

< 50.0 MG/KG PCBs

> 50.0 MG/KG PCBs

FIGURE 2
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN
ADDITIONAL SITE INVESTIGATION:
EXCAVATION LIMITS
FEBRUARY 2020 SCALE: AS SHOWN

Weston & Sampson

\\wsa03.local\WSE\Projects\CT\WSO2\Eversource\Berlin Settling Pond\2019-20 Remediation\CAD_GIS Drawings\Figure 3_Sitework showing PCB Results_w\verity of SW Concept.dwg

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - SHEET PILE AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	SP-1 (0-.25')	SP-1 (5-5.25')	SP-1 (10-10.25')	SP-1 (12-12.25')	SP-2 (0-.25')	SP-2 (5-5.25')	SP-2 (10-10.25')	SP-2 (12-12.25')	SP-3 (0-.25')	SP-3 (5-5.25')	SP-3 (10-10.25')	SP-3 (12-12.25')	SP-4 (0-.25')	SP-4 (5-5.25')	SP-4 (10-10.25')	SP-4 (12-12.25')
SAMPLE DEPTH INTERVAL (ft bgs)		0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25	0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25	0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25	0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25
DATE SAMPLED		1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020
WORK ORDER NO.		GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572
PARAMETER (Units)[2]																	
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																	
Aroclor 1016	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1221	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1232	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1242	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1248	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1254	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1260	--	**0.56**	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	**0.53**	ND < 0.38	ND < 0.36	ND < 0.37	**0.94**	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1262	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Aroclor 1268	--	ND < 0.38	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	ND < 0.4	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37
Total PCBs	1	**0.56**	ND < 0.41	ND < 0.39	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.39	**0.53**	ND < 0.38	ND < 0.36	ND < 0.37	**0.94**	ND < 0.37	ND < 0.39	ND < 0.37
Total Solids by Standard Method 2540G (%)	--	**86**	**80**	**84**	**83**	**87**	**87**	**86**	**85**	**81**	**85**	**92**	**88**	**86**	**90**	**84**	**88**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.

ABBREVIATIONS:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - SHEET PILE AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	SP-5 (0-.25')	SP-5 (5-5.25')	SP-5 (10-10.25')	SP-5 (12-12.25')	SP-6 (0-.25')	SP-6 (5-5.25')	SP-6 (10-10.25')	SP-6 (12-12.25')	SP-7 (0-.25')	SP-7 (5-5.25')	SP-7 (10-10.25')	SP-7 (12-12.25')	SP-8 (0-.25')	SP-8 (5-5.25')	SP-8 (10-10.25')	SP-8 (12-12.25')
SAMPLE DEPTH INTERVAL (ft bgs)		0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25	0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25	0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25	0.0-0.25	5.0-5.25	10.0-10.25	12.0-12.25
DATE SAMPLED		1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020
WORK ORDER NO.		GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF17572	GCF18547	GCF18547	GCF18547	GCF18547	GCF18547	GCF18547	GCF18547	GCF18547
PARAMETER (Units)[2]																	
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																	
Aroclor 1016	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1221	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1232	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1242	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1248	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1254	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1260	--	**0.66**	ND < 0.41	ND < 0.39	ND < 0.37	**0.67**	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1262	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Aroclor 1268	--	ND < 0.43	ND < 0.41	ND < 0.39	ND < 0.37	ND < 0.49	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Total PCBs	1	**0.66**	ND < 0.41	ND < 0.39	ND < 0.37	**0.67**	ND < 0.40	ND < 0.38	ND < 0.37	ND < 0.39	ND < 0.37	ND < 0.39	ND < 0.38	ND < 0.50	ND < 0.41	ND < 0.39	ND < 0.37
Total Solids by Standard Method 2540G (%)	--	**76**	**80**	**85**	**88**	**67**	**82**	**88**	**89**	**84**	**88**	**84**	**87**	**67**	**81**	**84**	**88**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.

ABBREVIATIONS:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - SHEET PILE AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	SP-9 (0-.25')	DUP-SP1 / Duplicate of SP-9 (0-0.25')	SP-9 (5-5.25')	SP-9 (10-10.25')	SP-9 (12-12.25')	DUP-SP2 / Duplicate of SP-9 (12-12.25')
SAMPLE DEPTH INTERVAL (ft bgs)		0.0-0.25		5.0-5.25	10.0-10.25	12.0-12.25	
DATE SAMPLED		1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020
WORK ORDER NO.		GCF18547	GCF18559	GCF18547	GCF18547	GCF18547	GCF18559
PARAMETER (Units)[2]							
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)							
Aroclor 1016	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1221	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1232	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1242	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1248	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1254	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1260	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1262	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Aroclor 1268	--	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Total PCBs	1	ND < 0.45	ND < 0.42	ND < 0.4	ND < 0.36	ND < 0.38	ND < 0.37
Total Solids by Standard Method 2540G (%)	--	**73**	**79**	**81**	**90**	**87**	**90**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.

ABBREVIATIONS:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

TABLE 2
SUMMARY OF CONCRETE ANALYTICAL RESULTS
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA limit for unrestricted residential use[1]	C-CB-N	C-CB-S	C-FE-N	C-FE-S	DUP-1/23-C / Duplicate of C-FE-S
DATE SAMPLED		1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020
WORK ORDER NO.		GCF18565	GCF18565	GCF18565	GCF18565	GCF18565
PARAMETER (Units)						
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)						
Aroclor 1016	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1221	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1232	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1242	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1248	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1254	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1260	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1262	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Aroclor 1268	--	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Total PCBs	1	ND < 0.38	ND < 0.39	ND < 0.35	ND < 0.35	ND < 0.37
Total Solids by Standard Method 2540G (%)	--	**86**	**86**	**93**	**94**	**90**

NOTES:
1. Analytical results were compared to the EPA's Performance Based Cleanup and Disposal Options for PCB Remediation Wastes (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:
mg/kg = milligrams per kilogram
-- = Not Applicable
ND<# = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B190-1	DUP-5 / Duplicate of B190-1	B190-2	B190-3	B190-4	B233-1	B233-2	B233-3	B233-4	B233-5	B234-1	B234-2	B234-3	B234-4	B234-5	B235-1	B235-2
SAMPLE DEPTH INTERVAL (ft bgs)		0.0-0.5		3.0-4.0	7.0-8.0	10.0-12.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0
DATE SAMPLED		1/19/2018		1/19/2018	1/19/2018	1/19/2018	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019
WORK ORDER NO.		18A0655		18A0655	18A0655	18A0655	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Aroclor 1221	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Aroclor 1232	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Aroclor 1242	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Aroclor 1248	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Aroclor 1254	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Aroclor 1260	--	**0.16**	**0.097**	ND<0.090	**0.11**	**1.5**	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	**0.43**	**0.56**	**1.9**	ND<0.36	ND<0.36	ND<0.37	**0.70**
Aroclor 1262	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Aroclor 1268	--	ND<0.095	ND<0.095	ND<0.090	ND<0.093	ND<0.18	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	ND<0.38	ND<0.36	ND<0.37	ND<0.36	ND<0.36	ND<0.37	ND<0.36
Total PCBs	1	**0.16**	**0.097**	ND<0.090	**0.11**	**1.5**	ND<0.38	ND<0.37	ND<0.36	ND<0.37	ND<35	**0.43**	**0.56**	**1.9**	ND<0.36	ND<0.36	ND<0.37	**0.70**
Total Solids by Standard Method 2540G (%)	--	**84.1**	**83.8**	**88.9**	**83.9**	**87.4**	**86**	**88**	**91**	**89**	**92**	**86**	**90**	**88**	**90**	**91**	**87**	**90**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B235-3	B235-4	B235-5	B236-1	B236-2	B236-3	B236-4	B236-5	B238-1	B238-2	B238-3	B238-4	B238-5	B239-1	B239-2	B239-3	B239-4
SAMPLE DEPTH INTERVAL (ft bgs)		7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0
DATE SAMPLED		12/12/2019	12/12/2019	12/12/2019	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019
WORK ORDER NO.		GCE86582	GCE86582	GCE86582	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Aroclor 1221	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Aroclor 1232	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Aroclor 1242	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Aroclor 1248	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Aroclor 1254	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Aroclor 1260	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	**0.53**	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	**0.56**	**2.9**	**0.42**
Aroclor 1262	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Aroclor 1268	--	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	ND<0.40	ND<0.39	ND<0.39
Total PCBs	1	ND<0.37	ND<0.36	ND<0.36	ND < 0.43	ND < 0.37	**0.53**	ND < 0.36	ND < 0.37	ND<0.39	ND<0.38	ND<0.37	ND<0.37	ND<0.36	ND<0.40	**0.56**	**2.9**	**0.42**
Total Solids by Standard Method 2540G (%)	--	**89**	**91**	**92**	**76**	**89**	**89**	**91**	**90**	**84**	**87**	**88**	**90**	**91**	**82**	**84**	**82**	**84**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B239-5	B240-1	B240-2	B240-3	B241-1	B241-2	B241-3	B241-4	B241-5	B244-1	B244-2	B244-3	B244-4	B244-5	B245-1	B245-2	B245-3
SAMPLE DEPTH INTERVAL (ft bgs)		14.0-15.0	10.0-12.0	12.0-14.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0
DATE SAMPLED		12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019	12/12/2019
WORK ORDER NO.		GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582	GCE86582
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Aroclor 1221	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Aroclor 1232	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Aroclor 1242	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Aroclor 1248	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Aroclor 1254	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Aroclor 1260	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	**0.45**	**0.45**	ND<0.37
Aroclor 1262	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Aroclor 1268	--	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	ND<0.40	ND<0.38	ND<0.37
Total PCBs	1	ND<0.36	ND<0.37	ND<0.37	ND<0.38	ND<0.40	ND<0.38	ND<0.38	ND<0.37	ND<0.37	ND<0.45	ND<0.37	ND<0.39	ND<0.36	ND<0.37	**0.45**	**0.45**	ND<0.37
Total Solids by Standard Method 2540G (%)	--	**90**	**89**	**88**	**88**	**82**	**85**	**87**	**90**	**90**	**73**	**88**	**84**	**92**	**90**	**82**	**88**	**87**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
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= Compound exceeds the criteria

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B245-4	B245-5	B248-1	B248-2	B248-3	B248-4	B248-5	B249-1	B249-2	B249-3	B249-4	DUP-1/23-1 / Duplicate of B-249-4	B249-5	B250-1	B250-2	B250-3	B250-4
SAMPLE DEPTH INTERVAL (ft bgs)		10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	12.0-13.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0		14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0
DATE SAMPLED		12/12/2019	12/12/2019	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020
WORK ORDER NO.		GCE86582	GCE86582	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1221	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1232	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1242	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1248	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1254	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1260	--	ND<0.37	ND<0.38	**0.68**	ND < 0.42	**3.1**	**0.71**	ND < 0.36	ND < 0.47	ND < 0.36	**0.41**	**0.43**	**1.3**	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1262	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Aroclor 1268	--	ND<0.37	ND<0.38	ND < 0.48	ND < 0.42	ND < 0.39	ND < 0.39	ND < 0.36	ND < 0.47	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Total PCBs	1	ND<0.37	ND<0.38	**0.68**	ND < 0.42	**3.1**	**0.71**	ND < 0.36	ND < 0.47	ND < 0.36	**0.41**	**0.43**	**1.3**	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36
Total Solids by Standard Method 2540G (%)	--	**88**	**88**	**67**	**79**	**84**	**84**	**91**	**70**	**90**	**87**	**88**	**87**	**91**	**94**	**89**	**92**	**92**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:
ft bgs = feet below ground surface
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TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	DUP-1/23-2 / Duplicate of B-250-4	B250-5	B251-1	B251-2	B251-3	B251-4	B251-5	B252-1	B252-2	B252-3	B252-4	DUP-1/23-3 / Duplicate of B-252-4	B252-5	B253-1	B253-2	B253-3	B253-4
SAMPLE DEPTH INTERVAL (ft bgs)		14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0		14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	
DATE SAMPLED		1/23/2020	1/23/2020	1/23/2020	1/27/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020
WORK ORDER NO.		GCF18498	GCF18498	GCF18498	GCF21547	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Aroclor 1221	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Aroclor 1232	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Aroclor 1242	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Aroclor 1248	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Aroclor 1254	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Aroclor 1260	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	**2.1**	ND < 0.35	ND < 0.35	**32**	ND < 0.36	**0.79**	**3.1**	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	**13**
Aroclor 1262	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Aroclor 1268	--	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.35	ND < 3.7	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	ND < 1.9
Total PCBs	1	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.38	ND < 0.36	2.1	ND < 0.35	ND < 0.35	32	ND < 0.36	0.79	3.1	ND < 0.35	ND < 0.37	ND < 0.39	ND < 0.36	13
Total Solids by Standard Method 2540G (%)	--	**92**	**92**	**91**	**87**	**91**	**90**	**93**	**95**	**88**	**90**	**92**	**91**	**93**	**88**	**86**	**92**	**88**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

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TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B253-5	B254-1	B254-2	B254-3	B254-4	B254-5	B255-1	B255-2	B255-3	B255-4	B255-5	B256-1	B256-2	B256-3	B256-4	B256-5	B257-1
SAMPLE DEPTH INTERVAL (ft bgs)		14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5
DATE SAMPLED		1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020
WORK ORDER NO.		GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF18498	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1221	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1232	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1242	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1248	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1254	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1260	--	ND < 0.35	ND < 0.36	**0.63**	ND < 0.37	**2.3**	ND < 0.38	ND < 0.35	**2.4**	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	**4.1**	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1262	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Aroclor 1268	--	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.38	ND < 0.38	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Total PCBs	1	ND < 0.35	ND < 0.36	**0.63**	ND < 0.37	**2.3**	ND < 0.38	ND < 0.35	**2.4**	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	**4.1**	ND < 0.36	ND < 0.35	ND < 0.36	ND < 0.39
Total Solids by Standard Method 2540G (%)	--	**93**	**89**	**91**	**90**	**88**	**87**	**93**	**88**	**91**	**91**	**94**	**93**	**89**	**92**	**93**	**92**	**85**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:
ft bgs = feet below ground surface
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TABLE 3
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EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B257-2	B257-3	DUP-0127-2 / Duplicate of B257-3	B257-4	B257-5	B258-1	B258-2	B258-3	B258-4	B258-5	B259-1	B259-2	B259-3	B259-4	B259-5	B260-1	B260-2
SAMPLE DEPTH INTERVAL (ft bgs)		3.0-4.0	7.0-8.0		10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0
DATE SAMPLED		1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020
WORK ORDER NO.		GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1221	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1232	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1242	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1248	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1254	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1260	--	**1.5**	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	**0.59**	**1.1**	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	**95**	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1262	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Aroclor 1268	--	ND < 0.39	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.38	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 39	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Total PCBs	1	**1.5**	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.35	**0.59**	**1.1**	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	**95**	ND < 0.36	ND < 0.37	ND < 0.36	ND < 0.39	ND < 0.38
Total Solids by Standard Method 2540G (%)	--	**85**	**90**	**90**	**94**	**92**	**94**	**87**	**90**	**91**	**92**	**94**	**84**	**90**	**90**	**89**	**85**	**87**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
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= Compound exceeds the criteria

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B260-3	B260-4	B260-5	B263-1	B263-2	B263-3	B263-4	DUP-0127-1 / Duplicate of B263-4	B263-5	B264-1	B264-2	B264-3	B264-4	B264-5	B267-1	B267-2	B267-3
SAMPLE DEPTH INTERVAL (ft bgs)		7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0		14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0
DATE SAMPLED		1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020	2/5/2020	2/5/2020	2/5/2020
WORK ORDER NO.		GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF21547	GCF27224	GCF27224	GCF27224
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1221	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1232	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1242	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1248	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1254	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1260	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	**0.40**	**0.42**	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1262	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Aroclor 1268	--	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	ND < 0.37	ND < 0.38	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Total PCBs	1	ND < 0.41	ND < 0.39	ND < 0.36	ND < 0.38	**0.40**	**0.42**	ND < 0.39	ND < 0.37	ND < 0.37	ND < 0.4	ND < 0.37	ND < 0.38	ND < 0.37	ND < 0.37	ND < 0.36	ND < 0.4	ND < 0.37
Total Solids by Standard Method 2540G (%)	--	**82**	**85**	**91**	**85**	**88**	**86**	**86**	**88**	**89**	**82**	**87**	**86**	**90**	**91**	**92**	**84**	**89**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:

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= Compound exceeds the criteria

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B267-4	B267-5	B270-1	B270-2	B270-3	B270-4	DUP-0205-1 / Duplicate of B-270-4	B270-5	B271-1	B271-2	B271-3	B271-4	B271-5	B272-1	B272-2	B272-3	B272-4
SAMPLE DEPTH INTERVAL (ft bgs)		10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0		14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0
DATE SAMPLED		2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020
WORK ORDER NO.		GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27244	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1221	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1232	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1242	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1248	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1254	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1260	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	**36**	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1262	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Aroclor 1268	--	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 3.9	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Total PCBs	1	ND < 0.36	ND < 0.38	ND < 0.35	ND < 0.38	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	**36**	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.34	ND < 0.38	ND < 0.37	ND < 0.36
Total Solids by Standard Method 2540G (%)	--	**92**	**87**	**93**	**86**	**90**	**91**	**93**	**88**	**93**	**84**	**92**	**91**	**89**	**94**	**87**	**89**	**91**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

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TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B272-5	B274-1	B274-2	B274-3	DUP-0205-2 / Duplicate of B-274-3	B274-4	B274-5	B275-1	B275-2	B275-3	B275-4	B275-5	B276-1	B276-2	B276-3	B276-4	B276-5
SAMPLE DEPTH INTERVAL (ft bgs)		14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0		10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0
DATE SAMPLED		2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020
WORK ORDER NO.		GCF27224	GCF27224	GCF27224	GCF27224	GCF27244	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1221	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1232	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1242	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1248	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1254	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1260	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	**0.7**	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	**1.6**	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1262	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Aroclor 1268	--	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	ND < 0.37	ND < 0.36	ND < 0.35	ND < 0.35
Total PCBs	1	ND < 0.37	ND < 0.35	ND < 0.39	ND < 0.37	ND < 0.36	**0.7**	ND < 0.35	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.37	ND < 0.37	ND < 0.34	**1.6**	ND < 0.36	ND < 0.35	ND < 0.35
Total Solids by Standard Method 2540G (%)	--	**90**	**94**	**84**	**89**	**91**	**93**	**93**	**94**	**91**	**92**	**91**	**90**	**94**	**87**	**91**	**92**	**93**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:
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TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B277-1	B277-2	B277-3	B277-4	B277-5	B278-1	B278-2	B278-3	B278-4	B278-5	B279-1	B279-2	B279-3	B279-4	B279-5	B282-1	B282-2
SAMPLE DEPTH INTERVAL (ft bgs)		0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0
DATE SAMPLED		2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020
WORK ORDER NO.		GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224
PARAMETER (Units)																		
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)																		
Aroclor 1016	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Aroclor 1221	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Aroclor 1232	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Aroclor 1242	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Aroclor 1248	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Aroclor 1254	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Aroclor 1260	--	ND < 0.35	**1.3**	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	**0.46**	ND < 0.37
Aroclor 1262	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Aroclor 1268	--	ND < 0.35	ND < 0.37	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.35	ND < 0.37
Total PCBs	1	ND < 0.35	1.3	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.35	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	**0.46**	ND < 0.37
Total Solids by Standard Method 2540G (%)	--	**95**	**87**	**90**	**92**	**91**	**95**	**90**	**92**	**91**	**89**	**95**	**91**	**90**	**92**	**89**	**94**	**88**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - STORMWATER SYSTEM AREA
EVERSOURCE BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	EPA STANDARD (40 CFR 761.61(b))[1]	B282-3	B282-4	B282-5	B283-1	B283-2	B283-3	B283-4	B283-5
SAMPLE DEPTH INTERVAL (ft bgs)		7.0-8.0	10.0-12.0	14.0-15.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	14.0-15.0
DATE SAMPLED		2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020	2/5/2020
WORK ORDER NO.		GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224	GCF27224
PARAMETER (Units)									
Polychlorinated Biphenyls by EPA Methods 8082A / 3540 (mg/kg)									
Aroclor 1016	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1221	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1232	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1242	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1248	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1254	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1260	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1262	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Aroclor 1268	--	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Total PCBs	1	ND < 0.36	ND < 0.37	ND < 0.35	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36	ND < 0.36
Total Solids by Standard Method 2540G (%)	--	**91**	**91**	**92**	**93**	**91**	**90**	**91**	**92**

NOTES:

1. Analytical results were compared to the EPA's *Performance Based Cleanup and Disposal Options for PCB Remediation Wastes* (40 CFR 761.61(b)), last revised January 1, 2007.

ABBREVIATIONS:
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Not Applicable
ND< # = Below the specified reporting limit
BOLD = Compound reported at the specified concentration
= Compound exceeds the criteria

PHOENIX
Environmental Laboratories, Inc.

Monday, January 27, 2020

Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Project ID: BERLIN SETTLING BASIN
SDG ID: GCF17572
Sample ID#s: CF17572 - CF17591, CF17761 - CF17764

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

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

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

Sample Id Cross Reference

January 27, 2020

SDG I.D.: GCF17572

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
SP-1(0-0.25`)	CF17572	SOIL
SP-1(5-5.25`)	CF17573	SOIL
SP-1(10-10.25`)	CF17574	SOIL
SP-1(12-12.25`)	CF17575	SOIL
SP-2(0-0.25`)	CF17576	SOIL
SP-2(5-5.25`)	CF17577	SOIL
SP-2(10-10.25`)	CF17578	SOIL
SP-2(12-12.25`)	CF17579	SOIL
SP-3(0-0.25`)	CF17580	SOIL
SP-3(5-5.25`)	CF17581	SOIL
SP-3(10-10.25`)	CF17582	SOIL
SP-3(12-12.25`)	CF17583	SOIL
SP-4(0-0.25`)	CF17584	SOIL
SP-4(5-5.25`)	CF17585	SOIL
SP-4(10-10.25`)	CF17586	SOIL
SP-4(12-12.25`)	CF17587	SOIL
SP-5(0-0.25`)	CF17588	SOIL
SP-5(5-5.25`)	CF17589	SOIL
SP-5(10-10.25`)	CF17590	SOIL
SP-5(12-12.25`)	CF17591	SOIL
SP-6(0-0.25	CF17761	SOIL
SP-6(5-5.25	CF17762	SOIL
SP-6(10-10.25	CF17763	SOIL
SP-6(12-12.25	CF17764	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

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	10:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17572

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(0-0.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	560	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	74		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	84		%	10	01/23/20	SC	30 - 150 %
% TCMX	67		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	68		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(0-0.25`)

Phoenix I.D.: CF17572

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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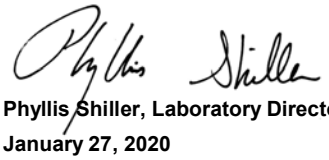

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	10:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17573

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	80		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	103		%	10	01/23/20	SC	30 - 150 %
% TCMX	79		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(5-5.25`)

Phoenix I.D.: CF17573

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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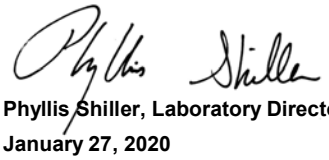

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	10:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17574

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	122		%	10	01/23/20	SC	30 - 150 %
% TCMX	97		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(10-10.25`)

Phoenix I.D.: CF17574

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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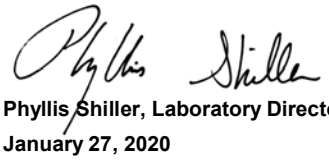

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	10:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17575

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	110		%	10	01/23/20	SC	30 - 150 %
% TCMX	92		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	91		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-1(12-12.25`)

Phoenix I.D.: CF17575

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 27, 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

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	11:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17576

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(0-0.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	113		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	127		%	10	01/23/20	SC	30 - 150 %
% TCMX	99		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	101		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(0-0.25`)

Phoenix I.D.: CF17576

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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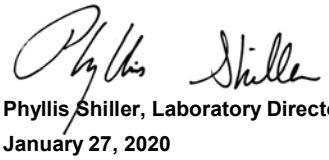

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	11:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17577

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	117		%	10	01/23/20	SC	30 - 150 %
% TCMX	93		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(5-5.25`)

Phoenix I.D.: CF17577

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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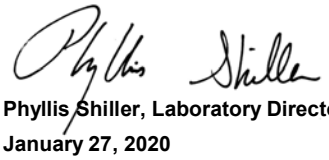

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	11:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17578

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	117		%	10	01/23/20	SC	30 - 150 %
% TCMX	91		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	92		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(10-10.25`)

Phoenix I.D.: CF17578

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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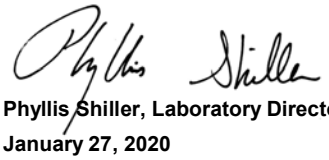

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	11:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17579

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	95		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	01/23/20	SC	30 - 150 %
% TCMX	74		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	74		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-2(12-12.25`)

Phoenix I.D.: CF17579

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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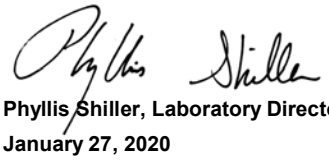

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	12:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17580

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(0-0.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	530	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	94		%	10	01/23/20	SC	30 - 150 %
% TCMX	80		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	78		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(0-0.25`)

Phoenix I.D.: CF17580

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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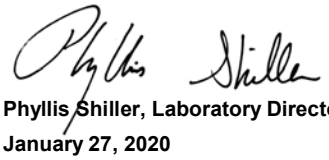

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	12:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17581

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	118		%	10	01/23/20	SC	30 - 150 %
% TCMX	97		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	99		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(5-5.25`)

Phoenix I.D.: CF17581

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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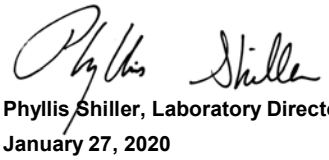

Phyllis Shiller, Laboratory Director
January 27, 2020
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Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	12:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17582

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	120		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	130		%	10	01/23/20	SC	30 - 150 %
% TCMX	102		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	102		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(10-10.25`)

Phoenix I.D.: CF17582

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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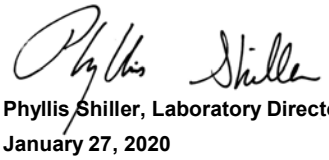

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	12:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17583

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	111		%	10	01/23/20	SC	30 - 150 %
% TCMX	96		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	99		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-3(12-12.25`)

Phoenix I.D.: CF17583

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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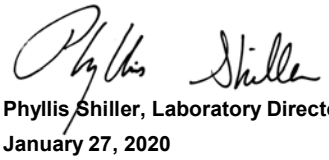

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	13:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17584

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(0-0.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	940	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	108		%	10	01/23/20	SC	30 - 150 %
% TCMX	91		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(0-0.25`)

Phoenix I.D.: CF17584

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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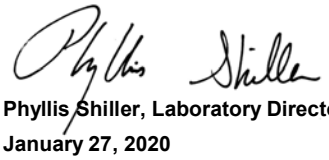

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	13:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17585

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	110		%	10	01/23/20	SC	30 - 150 %
% TCMX	84		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(5-5.25`)

Phoenix I.D.: CF17585

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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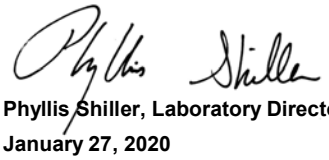

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	13:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17586

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	79		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	46		%	10	01/23/20	SC	30 - 150 %
% TCMX	69		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(10-10.25`)

Phoenix I.D.: CF17586

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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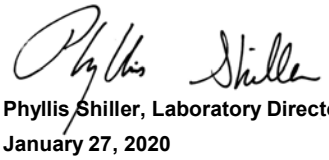

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	13:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17587

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	115		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	118		%	10	01/24/20	SC	30 - 150 %
% TCMX	102		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	96		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-4(12-12.25`)

Phoenix I.D.: CF17587

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Comments:

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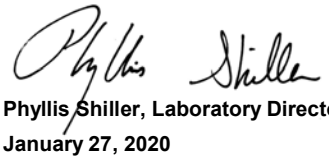

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	14:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17588

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(0-0.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	660	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	95		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	102		%	10	01/24/20	SC	30 - 150 %
% TCMX	85		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(0-0.25`)

Phoenix I.D.: CF17588

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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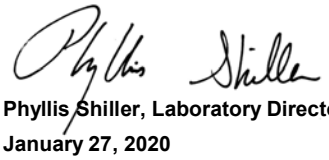

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	14:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17589

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	80		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	99		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	111		%	10	01/23/20	SC	30 - 150 %
% TCMX	78		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(5-5.25`)

Phoenix I.D.: CF17589

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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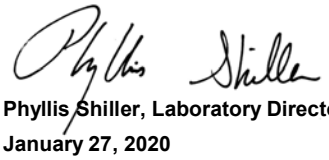

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	14:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17590

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	108		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	118		%	10	01/23/20	SC	30 - 150 %
% TCMX	96		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	95		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(10-10.25`)

Phoenix I.D.: CF17590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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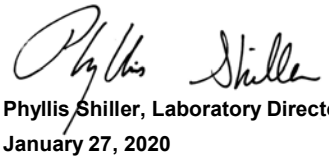

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	14:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17591

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	HH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	119		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	132		%	10	01/24/20	SC	30 - 150 %
% TCMX	104		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	104		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-5(12-12.25`)

Phoenix I.D.: CF17591

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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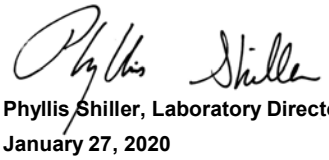

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17761

Project ID: BERLIN SETLING POND
Client ID: SP-6(0-0.25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	67		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	HH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	670	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	490	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	122		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	128		%	10	01/24/20	SC	30 - 150 %
% TCMX	105		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	103		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETLING POND
Client ID: SP-6(0-0.25

Phoenix I.D.: CF17761

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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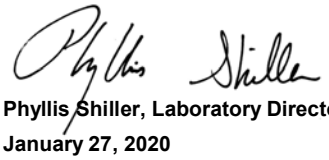

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17762

Project ID: BERLIN SETLING POND
Client ID: SP-6(5-5.25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	HH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	108		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	120		%	10	01/24/20	SC	30 - 150 %
% TCMX	94		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETLING POND
Client ID: SP-6(5-5.25

Phoenix I.D.: CF17762

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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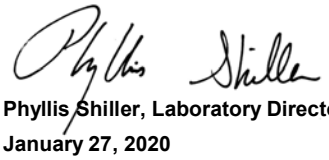

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17763

Project ID: BERLIN SETLING POND
Client ID: SP-6(10-10.25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	HH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	82		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	01/23/20	SC	30 - 150 %
% TCMX	95		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETLING POND
Client ID: SP-6(10-10.25

Phoenix I.D.: CF17763

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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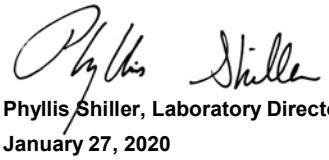

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 27, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/22/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/22/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF17572
Phoenix ID: CF17764

Project ID: BERLIN SETLING POND
Client ID: SP-6(12-12.25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		01/22/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/22/20	HH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/23/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	01/23/20	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	01/23/20	SC	30 - 150 %
% TCMX	105		%	10	01/23/20	SC	30 - 150 %
% TCMX (Confirmation)	105		%	10	01/23/20	SC	30 - 150 %

Project ID: BERLIN SETLING POND
Client ID: SP-6(12-12.25

Phoenix I.D.: CF17764

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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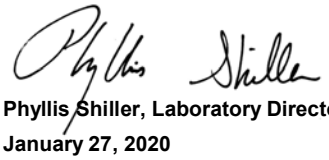

Phyllis Shiller, Laboratory Director
January 27, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

January 27, 2020

QA/QC Data

SDG I.D.: GCF17572

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 515419 (ug/Kg), QC Sample No: CF17104 10X (CF17591, CF17761, CF17762, CF17763, CF17764)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	100	99	1.0	99	111	11.4	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	106	106	0.0	111	126	12.7	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	117	%	122	121	0.8	115	128	10.7	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	119	%	125	121	3.3	119	135	12.6	30 - 150	30	
% TCMX (Surrogate Rec)	99	%	104	104	0.0	99	112	12.3	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	97	%	105	105	0.0	100	114	13.1	30 - 150	30	
QA/QC Batch 515410 (ug/Kg), QC Sample No: CF17588 10X (CF17572, CF17573, CF17574, CF17575, CF17576, CF17577, CF17578, CF17579, CF17580, CF17581, CF17582, CF17583, CF17584, CF17585, CF17586, CF17587, CF17588, CF17589, CF17590)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	97	92	5.3	54	93	53.1	40 - 140	30	r
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	105	99	5.9	109	122	11.3	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	114	%	113	107	5.5	98	102	4.0	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	120	%	121	116	4.2	103	107	3.8	30 - 150	30	
% TCMX (Surrogate Rec)	94	%	102	94	8.2	22	94	124.1	30 - 150	30	m,r
% TCMX (Surrogate Rec) (Confirm	94	%	103	96	7.0	23	94	121.4	30 - 150	30	m,r

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

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

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

Phyllis Shiller, Laboratory Director
January 27, 2020

Monday, January 27, 2020
Criteria: CT: GAM, I/C, RC
State: CT

Sample Criteria Exceedances Report

GCF17572 - WESTSAM-EVERBERLIN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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:*** Weston & Sampson

Project Location: BERLIN SETTLING BASIN ***Project Number:***

Laboratory Sample ID(s): CF17572-CF17591, CF17761-CF17764 ***Sampling Date(s):*** 1/22/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

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: PCB Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?**	☑ Yes ☐ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in 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:** Monday, January 27, 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

January 27, 2020

SDG I.D.: GCF17572

PCB Narration

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

QC Batch 515410 (Samples: CF17572, CF17573, CF17574, CF17575, CF17576, CF17577, CF17578, CF17579, CF17580, CF17581, CF17582, CF17583, CF17584, CF17585, CF17586, CF17587, CF17588, CF17589, CF17590): -----

One or more surrogates is outside of criteria. (% TCMX (Surrogate Rec), % TCMX (Surrogate Rec) (Confirmation))

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (PCB-1016)

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% TCMX (Surrogate Rec), % TCMX (Surrogate Rec) (Confirmation))

Instrument:

AU-ECD1 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF17761 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 01/23/20-1 Saadia Chudary, Chemist 01/23/20

CF17572 (10X), CF17573 (10X), CF17574 (10X), CF17575 (10X), CF17576 (10X), CF17577 (10X), CF17578 (10X), CF17579 (10X), CF17580 (10X), CF17581 (10X), CF17582 (10X), CF17583 (10X), CF17584 (10X), CF17585 (10X), CF17586 (10X), CF17587 (10X), CF17588 (10X), CF17589 (10X), CF17590 (10X), CF17591 (10X), CF17762 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 01/23/20-1 Saadia Chudary, Chemist 01/23/20

CF17763 (10X), CF17764 (10X)

The initial calibration (PC1126AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1126BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 515419 (CF17104)

CF17591, CF17761, CF17762, CF17763, CF17764

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.

QC (Site Specific):

Batch 515410 (CF17588)

CF17572, CF17573, CF17574, CF17575, CF17576, CF17577, CF17578, CF17579, CF17580, CF17581, CF17582, CF17583, CF17584, CF17585, CF17586, CF17587, CF17588, CF17589, CF17590

All LCS recoveries were within 40 - 140 with the following exceptions: None.

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

January 27, 2020

SDG I.D.: GCF17572

PCB Narration

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: % TCMX (Surrogate Rec)(22%), % TCMX (Surrogate Rec) (Confirmation)(23%)
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % TCMX (Surrogate Rec)(124.1%), % TCMX (Surrogate Rec) (Confirmation)(121.4%), PCB-1016(53.1%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Temperature Narration

The samples were received at 1.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

GCF17512

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 1.0 °C Pg 2 of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☑ Email: bartoszrew@eversource.com

Customer: Weston + Sampson
Address: 273 Dividend RD
Rocky Hill CT

Project: Berlin Settling Pond
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO - 10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/22/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs (Soxhlet only)	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/STC	Bacteria Bottle as is
17584	SP-4 (0-0.25')	S	1-22-20	1310	X			1									
17585	SP-4 (5-5.25')			1312	X			1									
17586	SP-4 (10-10.25')			1314	X			1									
17587	SP-4 (12-12.25')			1316	X			1									
17588	SP-5 (0-0.25')			1410	X			1									
17589	SP-5 (5-5.25')			1412	X			1									
17590	SP-5 (10-10.25')			1414	X			1									
17591	SP-5 (12-12.25')			1416	X			1									
17761	SP-6 (0-0.25')																
17762	SP-6 (5-5.25')																
17763	SP-6 (10-10.25')																
17764	SP-6 (12-12.25')	↓	↓														

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1.22.20	15:50
[signature]	Thermo Fisher Bucket	1.2220	16:30

Comments, Special Requirements or Regulations:
Please invoice Eversource @
matthew.calvert@eversource.com
reference PO # 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

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

State where samples were collected: CT

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 168 of 2201

PHOENIX
Environmental Laboratories, Inc.

Friday, January 31, 2020

Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Project ID: BERLIN SETTLING BASIN
SDG ID: GCF18547
Sample ID#s: CF18547 - CF18558

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

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

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

Sample Id Cross Reference

January 31, 2020

SDG I.D.: GCF18547

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
SP-7 (0-.25`)	CF18547	SOIL
SP-7 (5-5.25`)	CF18548	SOIL
SP-7 (10-10.25`)	CF18549	SOIL
SP-7 (12-12.25`)	CF18550	SOIL
SP-8 (0-.25`)	CF18551	SOIL
SP-8 (5-5.25`)	CF18552	SOIL
SP-8 (10-10.25`)	CF18553	SOIL
SP-8 (12-12.25`)	CF18554	SOIL
SP-9 (0-.25`)	CF18555	SOIL
SP-9 (5-5.25`)	CF18556	SOIL
SP-9 (10-10.25`)	CF18557	SOIL
SP-9 (12-12.25`)	CF18558	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

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	9:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18547

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (0-.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	120		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	122		%	10	01/25/20	SC	30 - 150 %
% TCMX	75		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (0-.25`)

Phoenix I.D.: CF18547

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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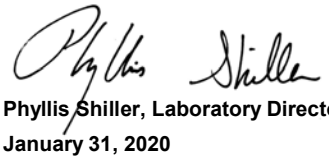

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	9:42
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18548

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	115		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	113		%	10	01/24/20	SC	30 - 150 %
% TCMX	82		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (5-5.25`)

Phoenix I.D.: CF18548

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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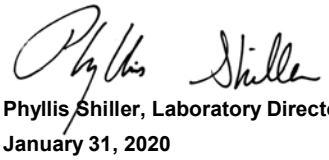

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	9:44
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18549

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/27/20	HH/VT/JS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	01/28/20	SC	30 - 150 %
% TCMX	62		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	64		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (10-10.25`)

Phoenix I.D.: CF18549

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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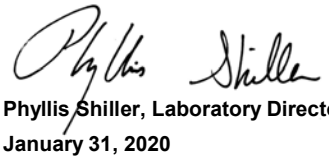

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	9:46
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18550

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	142		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	149		%	10	01/25/20	SC	30 - 150 %
% TCMX	108		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	106		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-7 (12-12.25`)

Phoenix I.D.: CF18550

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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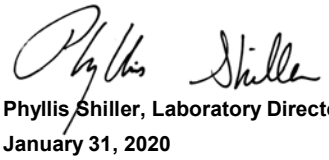

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	10:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18551

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (0-.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	67		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	500	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	92		%	10	01/24/20	SC	30 - 150 %
% TCMX	84		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (0-.25`)

Phoenix I.D.: CF18551

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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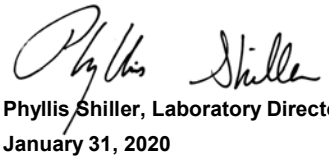

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	10:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18552

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	142		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	144		%	10	01/25/20	SC	30 - 150 %
% TCMX	64		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	62		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (5-5.25`)

Phoenix I.D.: CF18552

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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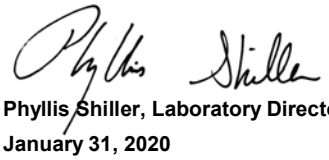

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	10:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18553

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	84		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	390	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	147		%	10	01/24/20	SC	30 - 150 %	
% DCBP (Confirmation)	151		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	67		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	72		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (10-10.25`)

Phoenix I.D.: CF18553

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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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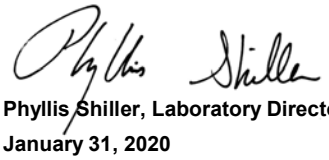

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	10:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18554

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	130		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	124		%	10	01/24/20	SC	30 - 150 %
% TCMX	93		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	95		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-8 (12-12.25`)

Phoenix I.D.: CF18554

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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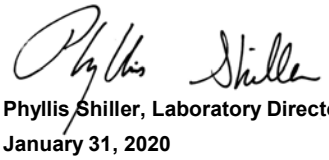

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	10:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18555

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (0-.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	450	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	92		%	10	01/24/20	SC	30 - 150 %
% TCMX	64		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	65		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (0-.25`)

Phoenix I.D.: CF18555

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	11:02
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18556

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (5-5.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	117		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	112		%	10	01/24/20	SC	30 - 150 %
% TCMX	70		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (5-5.25`)

Phoenix I.D.: CF18556

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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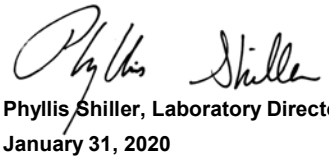

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	11:04
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18557

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (10-10.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	90		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	168		%	10	01/24/20	SC	30 - 150 %	3
% DCBP (Confirmation)	161		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	124		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	129		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (10-10.25`)

Phoenix I.D.: CF18557

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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:

PCB Comment:
For PCBs, Surrogate recoveries were >150%. Sample was non detect.

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Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	11:06
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18547
Phoenix ID: CF18558

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (12-12.25`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	117		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	114		%	10	01/24/20	SC	30 - 150 %
% TCMX	66		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	66		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: SP-9 (12-12.25`)

Phoenix I.D.: CF18558

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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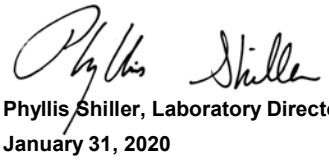

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

QA/QC Report

January 31, 2020

QA/QC Data

SDG I.D.: GCF18547

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 515619 (ug/Kg), QC Sample No: CF18547 10X (CF18547, CF18548, CF18550, CF18551, CF18552, CF18553, CF18554, CF18555, CF18556, CF18557, CF18558)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	170	111	116	4.4	86	79	8.5	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	126	132	4.7	105	99	5.9	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	83	%	142	146	2.8	105	98	6.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	76	%	133	139	4.4	98	98	0.0	30 - 150	30
% TCMX (Surrogate Rec)	71	%	121	126	4.0	91	85	6.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	73	%	127	133	4.6	95	92	3.2	30 - 150	30
QA/QC Batch 516041 (ug/Kg), QC Sample No: CF20313 10X (CF18549)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	170	81	94	14.9	67	55	19.7	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	91	107	16.2	82	65	23.1	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	102	%	97	113	15.2	85	67	23.7	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	118	%	110	123	11.2	81	66	20.4	30 - 150	30
% TCMX (Surrogate Rec)	98	%	75	86	13.7	70	55	24.0	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	97	%	76	82	7.6	72	57	23.3	30 - 150	30

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
January 31, 2020

Friday, January 31, 2020

Criteria: CT: GAM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCF18547 - WESTSAM-EVERBERLIN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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:*** Weston & Sampson

Project Location: BERLIN SETTLING BASIN ***Project Number:***

Laboratory Sample ID(s): CF18547-CF18558 ***Sampling Date(s):*** 1/23/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

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?**	☐ Yes ☑ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in 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, January 31, 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

January 31, 2020

SDG I.D.: GCF18547

PCB Narration

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

Instrument:

AU-ECD1 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18547 (10X), CF18550 (10X), CF18552 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD1 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF18549 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18548 (10X), CF18551 (10X), CF18553 (10X), CF18554 (10X), CF18555 (10X), CF18556 (10X), CF18557 (10X), CF18558 (10X)

The initial calibration (PC1125AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1125BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 516041 (CF20313)

CF18549

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.

QC (Site Specific):

Batch 515619 (CF18547)

CF18547, CF18548, CF18550, CF18551, CF18552, CF18553, CF18554, CF18555, CF18556, CF18557, CF18558

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: None.

Temperature Narration

The samples were received at 3.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] 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 3C | Pg | of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[✓] Email: bartoszr@wseinc.com

Customer: Weston + Sampson
Address: 273 Dividend Rd
Rocky Hill

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # Po # - 10964163

Project P.O:

This section must be completed by Bottle Supplier

Sampler's Signature: [signature] Date: 1/23/20

Client Sample - Information - Identification

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs (Soxhlet extr.)	GL Amber 8 oz. w/H2SO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	Pt. As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
18547	SP-7 (0-.25')	S	1/23/20	940	X			1									
18548	SP-7 (5-5.25')			942	X			1									
18549	SP-7 (10-10.25')			944	X			1									
18550	SP-7 (12-12.25')			946	X			1									
18551	SP-8 (0-.25')			1010	X			1									
18552	SP-8 (5-5.25')			1012	X			1									
18553	SP-8 (10-10.25')			1014	X			1									
18554	SP-8 (12-12.25')			1016	X			1									
18555	SP-9 (0-.25')			1100	X			1									
18556	SP-9 (5-5.25')			1102	X			1									
18557	SP-9 (10-10.25')			1104	X			1									
18558	SP-9 (12-12.25')	↓	↓	1106	X			1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/23/20	15:47
[signature]	[signature]	1/23/20	1630

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o matthew.calvert@eversource.com

Reference PO # 10964163

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

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

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

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

State where samples were collected: CT

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

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

PHOENIX
Environmental Laboratories, Inc.

Tuesday, January 28, 2020

Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Project ID: BERLIN SETTLING BASIN
SDG ID: GCF18559
Sample ID#s: CF18559 - CF18564

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

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

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

Sample Id Cross Reference

January 28, 2020

SDG I.D.: GCF18559

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
DUP-SP1	CF18559	SOIL
DUP-SP2	CF18560	SOIL
B-301 (0-0.5`)	CF18561	SOIL
B-301 (3-4`)	CF18562	SOIL
B-301 (7-8`)	CF18563	SOIL
B-301 (10-12`)	CF18564	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

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18559
Phoenix ID: CF18559

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-SP1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	420	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	67		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	63		%	10	01/24/20	SC	30 - 150 %
% TCMX	45		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	46		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-SP1

Phoenix I.D.: CF18559

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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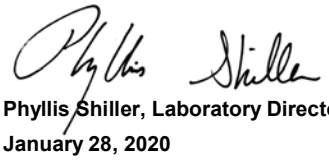

Phyllis Shiller, Laboratory Director
January 28, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18559
Phoenix ID: CF18560

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-SP2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	90		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	147		%	10	01/24/20	SC	30 - 150 %	
% DCBP (Confirmation)	151		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	115		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	111		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-SP2

Phoenix I.D.: CF18560

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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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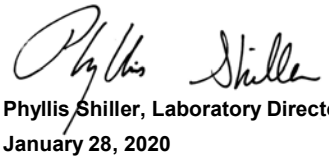

Phyllis Shiller, Laboratory Director
January 28, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	12:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18559
Phoenix ID: CF18561

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	790	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	430	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	87		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	01/24/20	SC	30 - 150 %
% TCMX	65		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	66		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (0-0.5`)

Phoenix I.D.: CF18561

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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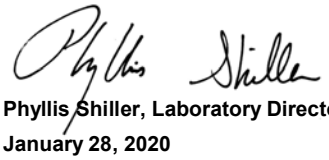

Phyllis Shiller, Laboratory Director
January 28, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	12:02
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18559
Phoenix ID: CF18562

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (3-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	97		%	10	01/24/20	SC	30 - 150 %
% TCMX	70		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (3-4`)

Phoenix I.D.: CF18562

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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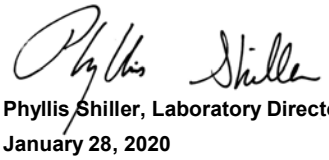


Phyllis Shiller, Laboratory Director
January 28, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	12:04
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18559
Phoenix ID: CF18563

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (7-8`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	91		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	179		%	10	01/24/20	SC	30 - 150 %	3
% DCBP (Confirmation)	190		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	142		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	141		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (7-8`)

Phoenix I.D.: CF18563

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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:

PCB Comment:
For PCBs, Surrogate recoveries were >150%. Sample was non detect.

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
January 28, 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

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	12:06
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18559
Phoenix ID: CF18564

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (10-12`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	117		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	111		%	10	01/24/20	SC	30 - 150 %
% TCMX	59		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	58		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-301 (10-12`)

Phoenix I.D.: CF18564

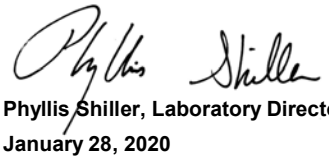
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 28, 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

January 28, 2020

QA/QC Data

SDG I.D.: GCF18559

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 515619 (ug/Kg), QC Sample No: CF18547 10X (CF18559, CF18560, CF18561, CF18562, CF18563, CF18564)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	170	111	116	4.4	86	79	8.5	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	126	132	4.7	105	99	5.9	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	83	%	142	146	2.8	105	98	6.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	76	%	133	139	4.4	98	98	0.0	30 - 150	30
% TCMX (Surrogate Rec)	71	%	121	126	4.0	91	85	6.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	73	%	127	133	4.6	95	92	3.2	30 - 150	30

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
January 28, 2020

Tuesday, January 28, 2020

Criteria: CT: GAM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCF18559 - WESTSAM-EVERBERLIN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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:*** Weston & Sampson

Project Location: BERLIN SETTLING BASIN ***Project Number:***

Laboratory Sample ID(s): CF18559-CF18564 ***Sampling Date(s):*** 1/23/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

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?**	☑ Yes ☐ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in 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:** Tuesday, January 28, 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

January 28, 2020

SDG I.D.: GCF18559

PCB Narration

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

Instrument:

AU-ECD24 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18559 (10X), CF18560 (10X), CF18561 (10X), CF18562 (10X), CF18563 (10X), CF18564 (10X)

The initial calibration (PC1125AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1125BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 515619 (CF18547)

CF18559, CF18560, CF18561, CF18562, CF18563, CF18564

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.

Temperature Narration

The samples were received at 3.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler Yes [X] No [ ]
Coolant: IPK [X] 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 2°C Pg 1 of 2

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: bartoszR@wseinc.com

Customer: Weston + Sampson
Address: 273 Dividend Rd
Rocky Hill, CT 06067

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # Eversource PO 10964163

Project P.O:

This section must be completed before sample(s) are logged in and a project # assigned.

Sampler's Signature: [signature] Date: 1/23/20

Client Sample - Information - Identification

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs (soxhlet ext'n)	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/hypo	Bacteria Bottle as is
18559	Dup-SP1	S	1/23/20	-	X			1									
18560	Dup-SP2	S		-	X			1									
18561	B-301 (0-0.5')			1200	X			1									
18562	B-301 (3-4')			1202	X			1									
18563	B-301 (7-8')			1204	X			1									
18564	B-301 (10-12')	↓	↓	1206	X			1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1.23.20	15:47
[signature]	[signature]	1.24.20	1130

Comments, Special Requirements or Regulations:
Please bill eversource directly c/o
Matthew.Calvert@Eversource.com
Reference PO # 10964163

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

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

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

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

State where samples were collected: CT

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

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

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 218 of 2201

PHOENIX
Environmental Laboratories, Inc.

Tuesday, January 28, 2020

Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Project ID: BERLIN SETTLING BASIN
SDG ID: GCF18565
Sample ID#s: CF18565 - CF18569

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

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

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

Sample Id Cross Reference

January 28, 2020

SDG I.D.: GCF18565

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
C-CB-N	CF18565	BULK
C-CB-S	CF18566	BULK
C-FE-N	CF18567	BULK
C-FE-S	CF18568	BULK
DUP-1/23-C	CF18569	BULK

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

Analysis Report

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/23/20	13:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18565
Phoenix ID: CF18565

Project ID: BERLIN SETTLING BASIN
Client ID: C-CB-N

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	120		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	115		%	10	01/25/20	SC	30 - 150 %
% TCMX	101		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	104		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: C-CB-N

Phoenix I.D.: CF18565

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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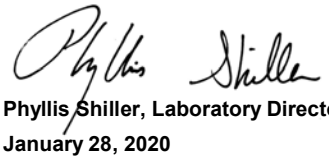


Phyllis Shiller, Laboratory Director
January 28, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/23/20	13:15
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18565
Phoenix ID: CF18566

Project ID: BERLIN SETTLING BASIN
Client ID: C-CB-S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	131		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	125		%	10	01/25/20	SC	30 - 150 %
% TCMX	112		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	116		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: C-CB-S

Phoenix I.D.: CF18566

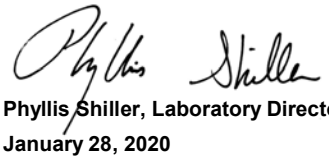
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 28, 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

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/23/20	13:20
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18565
Phoenix ID: CF18567

Project ID: BERLIN SETTLING BASIN
Client ID: C-FE-N

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	113		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	107		%	10	01/25/20	SC	30 - 150 %
% TCMX	94		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	96		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: C-FE-N

Phoenix I.D.: CF18567

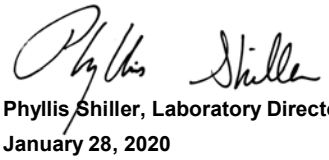
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 28, 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

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/23/20	13:25
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18565
Phoenix ID: CF18568

Project ID: BERLIN SETTLING BASIN
Client ID: C-FE-S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	124		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	118		%	10	01/25/20	SC	30 - 150 %
% TCMX	102		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	106		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: C-FE-S

Phoenix I.D.: CF18568

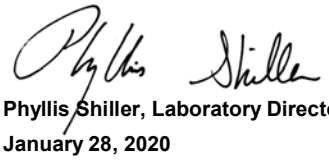
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 28, 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

January 28, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/23/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	01/23/20	16:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18565
Phoenix ID: CF18569

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/25/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	112		%	10	01/25/20	SC	30 - 150 %
% DCBP (Confirmation)	106		%	10	01/25/20	SC	30 - 150 %
% TCMX	95		%	10	01/25/20	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	01/25/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-C

Phoenix I.D.: CF18569

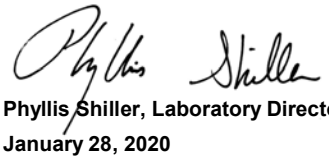
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 28, 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

January 28, 2020

QA/QC Data

SDG I.D.: GCF18565

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 515620 (ug/Kg), QC Sample No: CF18565 10X (CF18565, CF18566, CF18567, CF18568, CF18569)										
Polychlorinated Biphenyls - Bulk										
PCB-1016	ND	170	97	100	3.0				40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	110	109	0.9				40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	123	%	123	119	3.3				30 - 150	30
% DCBP (Surrogate Rec) (Confirm	116	%	117	114	2.6				30 - 150	30
% TCMX (Surrogate Rec)	104	%	101	102	1.0				30 - 150	30
% TCMX (Surrogate Rec) (Confirm	107	%	106	109	2.8				30 - 150	30

Comment:

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

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
January 28, 2020

Tuesday, January 28, 2020
Criteria: CT: RC
State: CT

Sample Criteria Exceedances Report

GCF18565 - WESTSAM-EVERBERLIN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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:*** Weston & Sampson

Project Location: BERLIN SETTLING BASIN ***Project Number:***

Laboratory Sample ID(s): CF18565-CF18569 ***Sampling Date(s):*** 1/23/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

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?**	☑ Yes ☐ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in 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:** Tuesday, January 28, 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

January 28, 2020

SDG I.D.: GCF18565

PCB Narration

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

Instrument:

AU-ECD24 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18565 (10X), CF18566 (10X), CF18567 (10X), CF18568 (10X), CF18569 (10X)

The initial calibration (PC1125AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1125BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:
Samples: CF18565, CF18566, CF18567, CF18568, CF18569
Preceding CC 124B041 - None.
Succeeding CC 124B052 - DCBP SURR 16%H (15%)

QC (Batch Specific):

Batch 515620 (CF18565)

CF18565, CF18566, CF18567, CF18568, CF18569

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

Temperature Narration

The samples were received at 3.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 2°C

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

Pg of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: Bartosz.R@wsp.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Matt Calvert (Eversource)
QUOTE # PO# 10964163

Project P.O:

This section MUST be completed with Bottle Quantities

Client Sample - Information - Identification

Sampler's Signature: Date: 1/23/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs w/ soxhlet	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/hypo	Bacteria Bottle as is
185105	C-CB-N	SD	1/23/20	1310	X			1									
185106	C-CB-S			1315	X			1									
185107	C-FE-N			1320	X			1									
185108	C-FE-S			1325	X			1									
185109	DUP-1/23-C	↓	↓	—	X			1									

Relinquished by:	Accepted by:	Date:	Time:
		1-23-20	15:47
		1/23/20	1430

Comments, Special Requirements or Regulations:
Direct bill to Matthew.Calvert@eversource.com
PO# 10964163
Samples require sieing

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

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

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

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

State where samples were collected: CT

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

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 31, 2018

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 107 Selden St., Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18A0655

Enclosed are results of analyses for samples received by the laboratory on January 22, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 1/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0655

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 107 Selden St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-191A (0-0.5)	18A0655-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8270D	
B-191B (10-12)	18A0655-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
B-191C (13-14)	18A0655-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-200A (0-0.5)	18A0655-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-200B (3-4)	18A0655-05	Soil		SM 2540G	
				SW-846 8082A	
B-200C (5-7)	18A0655-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
B-200D (7-8)	18A0655-07	Soil		SM 2540G	
				SW-846 8082A	
B-200E (13-14)	18A0655-08	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-199A (0-0.5)	18A0655-09	Soil		SM 2540G	
				SW-846 8082A	
B-199B (3-4)	18A0655-10	Soil		SM 2540G	
				SW-846 8082A	
B-188D (10-11)	18A0655-11	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 1/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0655

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 107 Selden St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-188E (13-15)	18A0655-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
B-188F (12-13)	18A0655-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
B-189A (0-0.5)	18A0655-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-189B (3-4)	18A0655-15	Soil		SM 2540G	
				SW-846 8082A	
B-189C (7-8)	18A0655-16	Soil		SM 2540G	
				SW-846 8082A	
B-189D (10-12)	18A0655-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
B-189E (13-14)	18A0655-18	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-190A (0-0.5)	18A0655-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-190B (3-4)	18A0655-20	Soil		SM 2540G	
				SW-846 8082A	
B-199C (7-8)	18A0655-21	Soil		SM 2540G	
				SW-846 8082A	

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273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 1/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0655

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 107 Selden St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-198A (0-0.5)	18A0655-22	Soil		SM 2540G	
				SW-846 8082A	
B-198B (3-4)	18A0655-23	Soil		SM 2540G	
				SW-846 8082A	
B-198C (7-8)	18A0655-24	Soil		SM 2540G	
				SW-846 8082A	
B-194A (0-0.5)	18A0655-25	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8270D	
B-194B (10-12)	18A0655-26	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
B-194C (13-14)	18A0655-27	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-188A (0-0.5)	18A0655-28	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-188B (3-4)	18A0655-29	Soil		SM 2540G	
				SW-846 8082A	
B-188C (7-8)	18A0655-30	Soil		SM 2540G	
				SW-846 8082A	
B-190C (7-8)	18A0655-31	Soil		SM 2540G	
				SW-846 8082A	
B-190D (10-12)	18A0655-32	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

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ATTN: Malcolm Beeler

REPORT DATE: 1/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0655

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 107 Selden St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-190E (13-14)	18A0655-33	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
DUP-3	18A0655-34	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
				SW-846 8270D	
DUP-4	18A0655-35	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
DUP-5	18A0655-36	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
DUP-6	18A0655-37	Soil		SM 2540G	
				SW-846 8082A	
DUP-7	18A0655-38	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
EB-011918	18A0655-39	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
EB-011818	18A0655-40	Equipment Blank Water		SW-846 6020A-B	
				SW-846 7470A	
TB-011918	18A0655-41	Trip Blank Water		SW-846 8260C	
Decon Water	18A0655-42	Equipment Blank Water		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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CTDEP ETPH

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

18A0655-01[B-191A (0-0.5)], 18A0655-28[B-188A (0-0.5)], B195345-MS1, B195345-MS2, B195345-MSD1, B195345-MSD2

S-25

Surrogate recovery is outside of control limits due to suspected matrix interference. Samples of a clay-like matrix historically have exhibited low surrogate recovery.

Analyte & Samples(s) Qualified:

o-Terphenyl

18A0655-28[B-188A (0-0.5)], B195345-MS2

SW-846 6010C-D

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Selenium

18A0655-02RE1[B-191B (10-12)], B195637-MS1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

18A0655-01[B-191A (0-0.5)], 18A0655-14[B-189A (0-0.5)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], B195354-MS1, B195354-MS2, B195354-MSD1, B195354-MSD2, B195446-MS1, B195446-MS2, B195446-MSD1, B195446-MSD2

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Barium

18A0655-28[B-188A (0-0.5)], B195446-MS1, B195446-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Barium

18A0655-02RE1[B-191B (10-12)], 18A0655-14[B-189A (0-0.5)], B195354-MSD2, B195637-MS1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Copper

B195446-MSD1

Lead

B195446-MS2

Vanadium

B195354-MSD2

Zinc

B195446-MS1

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MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Barium
B195446-MS2

Vanadium
18A0655-28[B-188A (0-0.5)], B195446-MSD1

SW-846 6020A-B

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Zinc
B195356-BS1, B195356-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Beryllium
B195356-BSD1

Selenium
B195356-BSD1

SW-846 8082A

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260
B195477-MS1

Aroclor-1260 [2C]
B195477-MS1

MS-21

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016
B195410-MS1, B195410-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B195477-MSD1

S-18

Surrogate recovery is outside of control limits, matrix interference suspected. Insufficient sample available for reanalysis.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
18A0655-42[Decon Water]

Decachlorobiphenyl [2C]
18A0655-42[Decon Water]

SW-846 8260C

Qualifications:

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L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Acetone
B195379-BS1, B195379-MS1, B195379-MSD1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
18A0655-02[B-191B (10-12)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-17[B-189D (10-12)], 18A0655-26[B-194B (10-12)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], B195379-BLK1, B195379-BS1, B195379-MS1, B195379-MSD1

Naphthalene
18A0655-39[EB-011918], 18A0655-41[TB-011918], B195318-BLK1, B195318-BS1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Naphthalene
18A0655-32[B-190D (10-12)], B195379-MS1, B195379-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B195379-MS1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

trans-1,4-Dichloro-2-butene
B195379-MS1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
B195379-MS1, B195379-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Acetone
B195379-BS1, B195379-MS1, B195379-MSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
B195379-BS1, B195379-MS1, B195379-MSD1

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Fluoranthene
18A0655-25[B-194A (0-0.5)]

Pyrene
18A0655-25[B-194A (0-0.5)]

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L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Chloroaniline
18A0655-01[B-191A (0-0.5)], 18A0655-02[B-191B (10-12)], 18A0655-04[B-200A (0-0.5)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-14[B-189A (0-0.5)], 18A0655-17[B-189D (10-12)], 18A0655-19[B-190A (0-0.5)], 18A0655-25[B-194A (0-0.5)], 18A0655-25RE1[B-194A (0-0.5)], 18A0655-26[B-194B (10-12)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], 18A0655-36[DUP-5], B195346-BLK1, B195346-BS1, B195346-BSD1

MS-08

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B195346-MS1

4-Chloroaniline
B195346-MS1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
18A0655-28[B-188A (0-0.5)], B195346-MS2, B195346-MSD2

3-Nitroaniline
18A0655-28[B-188A (0-0.5)], B195346-MS2, B195346-MSD2

4-Chloroaniline
18A0655-28[B-188A (0-0.5)], B195346-MS2, B195346-MSD2

Aniline
18A0655-28[B-188A (0-0.5)], B195346-MS2, B195346-MSD2

Hexachlorocyclopentadiene
18A0655-28[B-188A (0-0.5)], B195346-MS2, B195346-MSD2

Pyridine
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
B195346-MS1

Hexachloroethane
B195346-MS1

Pyridine
B195346-MSD2

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Aniline
B195346-MS1

Fluoranthene
B195346-MS1

Pentachlorophenol
B195346-MS1

Phenanthrene
B195346-MS1

Pyrene
B195346-MS1

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R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
18A0655-28[B-188A (0-0.5)], B195346-MS2, B195346-MSD2

Aniline
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Anthracene
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Benzo(a)anthracene
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Benzo(a)pyrene
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Benzo(b)fluoranthene
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Benzo(k)fluoranthene
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Chrysene
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Fluoranthene
18A0655-01[B-191A (0-0.5)], B195346-MSD1

Indeno(1,2,3-cd)pyrene
18A0655-01[B-191A (0-0.5)], B195346-MS1, B195346-MSD1

Pentachlorophenol
18A0655-01[B-191A (0-0.5)], B195346-MSD1

Phenanthrene
18A0655-01[B-191A (0-0.5)], B195346-MSD1

Pyrene
18A0655-01[B-191A (0-0.5)], B195346-MSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
18A0655-01[B-191A (0-0.5)], 18A0655-02[B-191B (10-12)], 18A0655-04[B-200A (0-0.5)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-14[B-189A (0-0.5)], 18A0655-17[B-189D (10-12)], 18A0655-19[B-190A (0-0.5)], 18A0655-25[B-194A (0-0.5)], 18A0655-26[B-194B (10-12)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], 18A0655-36[DUP-5]

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene
18A0655-25RE1[B-194A (0-0.5)], 18A0655-39[EB-011918], B195629-BLK1, B195629-BS1, B195629-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
18A0655-01[B-191A (0-0.5)], 18A0655-02[B-191B (10-12)], 18A0655-04[B-200A (0-0.5)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-14[B-189A (0-0.5)], 18A0655-17[B-189D (10-12)], 18A0655-19[B-190A (0-0.5)], 18A0655-25[B-194A (0-0.5)], 18A0655-26[B-194B (10-12)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], 18A0655-36[DUP-5]

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B195346-BLK1, B195346-BS1, B195346-BSD1

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V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

18A0655-01[B-191A (0-0.5)], 18A0655-02[B-191B (10-12)], 18A0655-04[B-200A (0-0.5)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-14[B-189A (0-0.5)], 18A0655-17[B-189D (10-12)], 18A0655-19[B-190A (0-0.5)], 18A0655-25[B-194A (0-0.5)], 18A0655-25RE1[B-194A (0-0.5)], 18A0655-26[B-194B (10-12)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], 18A0655-36[DUP-5], 18A0655-39[EB-011918], B195346-BLK1, B195346-BS1, B195346-BSD1, B195629-BLK1, B195629-BS1, B195629-BSD1

4,6-Dinitro-2-methylphenol

18A0655-01[B-191A (0-0.5)], 18A0655-02[B-191B (10-12)], 18A0655-04[B-200A (0-0.5)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-14[B-189A (0-0.5)], 18A0655-17[B-189D (10-12)], 18A0655-19[B-190A (0-0.5)], 18A0655-25[B-194A (0-0.5)], 18A0655-26[B-194B (10-12)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], 18A0655-36[DUP-5]

4-Chloroaniline

18A0655-01[B-191A (0-0.5)], 18A0655-02[B-191B (10-12)], 18A0655-04[B-200A (0-0.5)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-14[B-189A (0-0.5)], 18A0655-17[B-189D (10-12)], 18A0655-19[B-190A (0-0.5)], 18A0655-25[B-194A (0-0.5)], 18A0655-25RE1[B-194A (0-0.5)], 18A0655-26[B-194B (10-12)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], 18A0655-36[DUP-5], 18A0655-39[EB-011918], B195346-BLK1, B195346-BS1, B195346-BSD1, B195629-BLK1, B195629-BS1, B195629-BSD1

Aniline

18A0655-01[B-191A (0-0.5)], 18A0655-02[B-191B (10-12)], 18A0655-04[B-200A (0-0.5)], 18A0655-06[B-200C (5-7)], 18A0655-12[B-188E (13-15)], 18A0655-14[B-189A (0-0.5)], 18A0655-17[B-189D (10-12)], 18A0655-19[B-190A (0-0.5)], 18A0655-25[B-194A (0-0.5)], 18A0655-26[B-194B (10-12)], 18A0655-28[B-188A (0-0.5)], 18A0655-32[B-190D (10-12)], 18A0655-34[DUP-3], 18A0655-36[DUP-5]

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Nitroaniline

18A0655-25RE1[B-194A (0-0.5)]

N-Nitrosodiphenylamine

18A0655-25RE1[B-194A (0-0.5)]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

SW-846 8270D

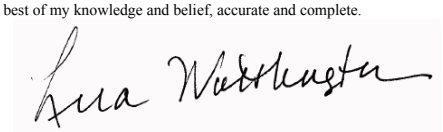
The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3’-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191A (0-0.5) | Sampled: 1/19/2018 08:50

Sample ID: 18A0655-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Aniline	ND	0.39	mg/Kg dry	1	R-06, V-34	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Anthracene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Chrysene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191A (0-0.5) | Sampled: 1/19/2018 08:50

Sample ID: 18A0655-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Pyrene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
Pyridine	ND	0.39	mg/Kg dry	1	MS-09	SW-846 8270D	1/23/18	1/25/18 13:30	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:30	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.6	30-130		1/25/18 13:30
Phenol-d6	66.3	30-130		1/25/18 13:30
Nitrobenzene-d5	63.8	30-130		1/25/18 13:30
2-Fluorobiphenyl	68.3	30-130		1/25/18 13:30
2,4,6-Tribromophenol	64.4	30-130		1/25/18 13:30
p-Terphenyl-d14	74.8	30-130		1/25/18 13:30

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191A (0-0.5) | Sampled: 1/19/2018 08:50

Sample ID: 18A0655-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	21	12	mg/Kg dry	1	MS-07A	CTDEP ETPH	1/23/18	1/24/18 15:04	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	70.0	50-150		1/24/18 15:04

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191A (0-0.5) | Sampled: 1/19/2018 08:50

Sample ID: 18A0655-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1	MS-07A	SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Barium	120	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Beryllium	0.39	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Chromium	23	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Copper	36	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Lead	12	0.58	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 13:59	EJB
Nickel	21	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Vanadium	38	0.77	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW
Zinc	53	0.77	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:08	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191A (0-0.5) | Sampled: 1/19/2018 08:50

Sample ID: 18A0655-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	1/23/18	1/24/18 7:13	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191B (10-12) | Sampled: 1/19/2018 08:55

Sample ID: 18A0655-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Acrylonitrile	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Bromomethane	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Carbon Disulfide	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Chlorodibromomethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Chloromethane	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2-Dibromoethane (EDB)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,3-Dichloropropane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
2,2-Dichloropropane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
cis-1,3-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
trans-1,3-Dichloropropene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191B (10-12) | Sampled: 1/19/2018 08:55

Sample ID: 18A0655-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Naphthalene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Tetrahydrofuran	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1	L-03	SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
Vinyl Chloride	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 7:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.1	70-130		1/23/18 7:57
Toluene-d8	104	70-130		1/23/18 7:57
4-Bromofluorobenzene	92.9	70-130		1/23/18 7:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191B (10-12) | Sampled: 1/19/2018 08:55

Sample ID: 18A0655-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Aniline	ND	0.38	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
4-Chloroaniline	ND	0.74	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 13:54	BGL
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191B (10-12) | Sampled: 1/19/2018 08:55

Sample ID: 18A0655-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 13:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	58.7	30-130		1/25/18 13:54
Phenol-d6	61.2	30-130		1/25/18 13:54
Nitrobenzene-d5	58.1	30-130		1/25/18 13:54
2-Fluorobiphenyl	64.0	30-130		1/25/18 13:54
2,4,6-Tribromophenol	63.5	30-130		1/25/18 13:54
p-Terphenyl-d14	75.7	30-130		1/25/18 13:54

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191B (10-12) | Sampled: 1/19/2018 08:55

Sample ID: 18A0655-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 13:53	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	76.1	50-150					1/24/18 13:53	

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191B (10-12) | Sampled: 1/19/2018 08:55

Sample ID: 18A0655-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Barium	82	1.9	mg/Kg dry	1	MS-19	SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Beryllium	0.43	0.19	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Chromium	20	0.37	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Copper	36	0.37	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Lead	9.7	0.56	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:02	EJB
Nickel	19	0.37	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Selenium	ND	3.7	mg/Kg dry	1	MS-07	SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/30/18 16:57	QNW
Vanadium	35	0.74	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/30/18 16:57	QNW
Zinc	50	0.74	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:49	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191B (10-12) | Sampled: 1/19/2018 08:55

Sample ID: 18A0655-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	1/23/18	1/24/18 7:13	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191C (13-14) | Sampled: 1/19/2018 09:00

Sample ID: 18A0655-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Barium	81	1.8	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Beryllium	0.42	0.18	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Chromium	19	0.36	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Copper	47	0.36	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Lead	10	0.54	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:08	EJB
Nickel	19	0.36	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/30/18 17:01	QNW
Vanadium	34	0.72	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW
Zinc	49	0.72	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:52	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-191C (13-14) | Sampled: 1/19/2018 09:00

Sample ID: 18A0655-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.8		% Wt	1		SM 2540G	1/23/18	1/24/18 7:13	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200A (0-0.5) | Sampled: 1/19/2018 11:02

Sample ID: 18A0655-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Acenaphthylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Aniline	ND	0.45	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Benzo(a)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Benzo(a)pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Benzo(b)fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Benzo(g,h,i)perylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Benzo(k)fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Bis(2-chloroethoxy)methane	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Bis(2-chloroethyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Bis(2-chloroisopropyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
4-Bromophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Butylbenzylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Carbazole	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
4-Chloroaniline	ND	0.88	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 14:19	BGL
4-Chloro-3-methylphenol	ND	0.88	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2-Chloronaphthalene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2-Chlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
4-Chlorophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Chrysene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Dibenz(a,h)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Dibenzofuran	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Di-n-butylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
3,3-Dichlorobenzidine	ND	0.23	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2,4-Dichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Diethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2,4-Dimethylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Dimethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
4,6-Dinitro-2-methylphenol	ND	0.45	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2,4-Dinitrophenol	ND	0.88	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2,4-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2,6-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Di-n-octylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Fluorene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Hexachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Hexachlorobutadiene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Hexachlorocyclopentadiene	ND	0.45	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Hexachloroethane	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Isophorone	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2-Methylnaphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200A (0-0.5) | Sampled: 1/19/2018 11:02

Sample ID: 18A0655-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
3/4-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Naphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
3-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
4-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Nitrobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2-Nitrophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
4-Nitrophenol	ND	0.88	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
N-Nitrosodiphenylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
N-Nitrosodi-n-propylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Pentachloronitrobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Pentachlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Phenanthrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Phenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
Pyridine	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
1,2,4-Trichlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2,4,5-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL
2,4,6-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:19	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	56.5	30-130		1/25/18 14:19
Phenol-d6	58.4	30-130		1/25/18 14:19
Nitrobenzene-d5	57.8	30-130		1/25/18 14:19
2-Fluorobiphenyl	59.4	30-130		1/25/18 14:19
2,4,6-Tribromophenol	55.7	30-130		1/25/18 14:19
p-Terphenyl-d14	64.6	30-130		1/25/18 14:19

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200A (0-0.5) | Sampled: 1/19/2018 11:02

Sample ID: 18A0655-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	83.6	30-150				1/26/18 14:07
Decachlorobiphenyl [2]	87.5	30-150				1/26/18 14:07
Tetrachloro-m-xylene [1]	88.0	30-150				1/26/18 14:07
Tetrachloro-m-xylene [2]	90.0	30-150				1/26/18 14:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200A (0-0.5) | Sampled: 1/19/2018 11:02

Sample ID: 18A0655-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	74	13	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 13:53	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	74.0	50-150		1/24/18 13:53

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200A (0-0.5) | Sampled: 1/19/2018 11:02

Sample ID: 18A0655-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.2	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Arsenic	ND	2.2	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Barium	100	2.2	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Beryllium	0.48	0.22	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Cadmium	ND	0.22	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Chromium	15	0.44	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Copper	19	0.44	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Lead	23	0.66	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Mercury	0.048	0.033	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:10	EJB
Nickel	13	0.44	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Selenium	ND	4.4	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Silver	ND	0.44	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Thallium	ND	2.2	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Vanadium	40	0.88	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW
Zinc	64	0.88	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:56	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200A (0-0.5) | Sampled: 1/19/2018 11:02

Sample ID: 18A0655-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.2		% Wt	1		SM 2540G	1/23/18	1/24/18 7:13	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200B (3-4) | Sampled: 1/19/2018 11:04

Sample ID: 18A0655-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	92.3	30-150				1/26/18 14:25
Decachlorobiphenyl [2]	94.9	30-150				1/26/18 14:25
Tetrachloro-m-xylene [1]	93.0	30-150				1/26/18 14:25
Tetrachloro-m-xylene [2]	95.3	30-150				1/26/18 14:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200B (3-4) | Sampled: 1/19/2018 11:04

Sample ID: 18A0655-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	1/23/18	1/24/18 7:14	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Acrylonitrile	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Bromomethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Carbon Disulfide	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Chloromethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
2,2-Dichloropropane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
trans-1,3-Dichloropropene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1	L-03	SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
Vinyl Chloride	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 8:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	95.0	70-130			1/23/18 8:23
Toluene-d8	100	70-130			1/23/18 8:23
4-Bromofluorobenzene	92.7	70-130			1/23/18 8:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Aniline	ND	0.42	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
4-Chloroaniline	ND	0.81	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 14:43	BGL
4-Chloro-3-methylphenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2,4-Dinitrophenol	ND	0.81	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
4-Nitrophenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 14:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	72.1	30-130		1/25/18 14:43
Phenol-d6	72.6	30-130		1/25/18 14:43
Nitrobenzene-d5	70.0	30-130		1/25/18 14:43
2-Fluorobiphenyl	71.1	30-130		1/25/18 14:43
2,4,6-Tribromophenol	64.6	30-130		1/25/18 14:43
p-Terphenyl-d14	76.6	30-130		1/25/18 14:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 14:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	94.4	30-150				1/26/18 14:42
Decachlorobiphenyl [2]	96.3	30-150				1/26/18 14:42
Tetrachloro-m-xylene [1]	96.2	30-150				1/26/18 14:42
Tetrachloro-m-xylene [2]	99.1	30-150				1/26/18 14:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	12	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 14:11	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	77.9	50-150		1/24/18 14:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Barium	81	2.0	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Beryllium	0.36	0.20	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Chromium	15	0.40	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Copper	40	0.40	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Lead	9.0	0.60	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:11	EJB
Nickel	16	0.40	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/30/18 17:06	QNW
Vanadium	27	0.80	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW
Zinc	47	0.80	mg/Kg dry	1		SW-846 6010C-D	1/26/18	1/29/18 20:59	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200C (5-7) | Sampled: 1/19/2018 11:06

Sample ID: 18A0655-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	1/23/18	1/24/18 7:14	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200D (7-8) | Sampled: 1/19/2018 11:08

Sample ID: 18A0655-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	103	30-150				1/26/18 15:00
Decachlorobiphenyl [2]	105	30-150				1/26/18 15:00
Tetrachloro-m-xylene [1]	102	30-150				1/26/18 15:00
Tetrachloro-m-xylene [2]	105	30-150				1/26/18 15:00

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200D (7-8) | Sampled: 1/19/2018 11:08

Sample ID: 18A0655-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	1/23/18	1/24/18 7:14	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200E (13-14) | Sampled: 1/19/2018 11:10

Sample ID: 18A0655-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Barium	110	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Beryllium	0.35	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Chromium	22	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Copper	49	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Lead	11	0.56	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:13	EJB
Nickel	25	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 18:00	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 18:00	QNW
Vanadium	40	0.75	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW
Zinc	60	0.75	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:47	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-200E (13-14) | Sampled: 1/19/2018 11:10

Sample ID: 18A0655-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	1/23/18	1/24/18 7:14	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-199A (0-0.5) | Sampled: 1/19/2018 11:40

Sample ID: 18A0655-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1260 [2]	0.13	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	92.6	30-150				1/26/18 15:18
Decachlorobiphenyl [2]	95.1	30-150				1/26/18 15:18
Tetrachloro-m-xylene [1]	97.5	30-150				1/26/18 15:18
Tetrachloro-m-xylene [2]	101	30-150				1/26/18 15:18

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-199A (0-0.5) | Sampled: 1/19/2018 11:40

Sample ID: 18A0655-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.5		% Wt	1		SM 2540G	1/23/18	1/24/18 7:14	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-199B (3-4) | Sampled: 1/19/2018 11:42

Sample ID: 18A0655-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	84.0	30-150				1/26/18 15:35
Decachlorobiphenyl [2]	85.3	30-150				1/26/18 15:35
Tetrachloro-m-xylene [1]	83.0	30-150				1/26/18 15:35
Tetrachloro-m-xylene [2]	86.1	30-150				1/26/18 15:35

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-199B (3-4) | Sampled: 1/19/2018 11:42

Sample ID: 18A0655-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	1/23/18	1/24/18 7:14	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188D (10-11) | Sampled: 1/19/2018 14:58

Sample ID: 18A0655-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Barium	86	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Beryllium	0.28	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Chromium	21	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Copper	29	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Lead	11	0.59	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:15	EJB
Nickel	18	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Vanadium	37	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW
Zinc	45	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:50	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188D (10-11) | Sampled: 1/19/2018 14:58

Sample ID: 18A0655-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	1/23/18	1/24/18 7:14	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Acrylonitrile	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
2,2-Dichloropropane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
trans-1,3-Dichloropropene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1	L-03	SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.2	70-130		1/23/18 9:52
Toluene-d8	101	70-130		1/23/18 9:52
4-Bromofluorobenzene	95.0	70-130		1/23/18 9:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
4-Chloroaniline	ND	0.80	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 15:08	BGL
4-Chloro-3-methylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2,4-Dinitrophenol	ND	0.80	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
4-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:08	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	62.9	30-130		1/25/18 15:08
Phenol-d6	63.9	30-130		1/25/18 15:08
Nitrobenzene-d5	61.2	30-130		1/25/18 15:08
2-Fluorobiphenyl	64.6	30-130		1/25/18 15:08
2,4,6-Tribromophenol	60.4	30-130		1/25/18 15:08
p-Terphenyl-d14	70.4	30-130		1/25/18 15:08

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 15:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.1	30-150		1/26/18 15:53
Decachlorobiphenyl [2]	79.1	30-150		1/26/18 15:53
Tetrachloro-m-xylene [1]	78.0	30-150		1/26/18 15:53
Tetrachloro-m-xylene [2]	80.6	30-150		1/26/18 15:53

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	53	12	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 14:11	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	67.4	50-150				1/24/18 14:11	

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Barium	120	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Beryllium	0.30	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Cadmium	0.34	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Chromium	20	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Copper	28	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Lead	87	0.61	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Mercury	0.068	0.031	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:16	EJB
Nickel	17	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Vanadium	42	0.81	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW
Zinc	97	0.81	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:54	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188E (13-15) | Sampled: 1/19/2018 15:00

Sample ID: 18A0655-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.1		% Wt	1		SM 2540G	1/23/18	1/24/18 7:15	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188F (12-13) | Sampled: 1/19/2018 15:02

Sample ID: 18A0655-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Benzo(a)anthracene	0.23	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Benzo(b)fluoranthene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Chrysene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Fluoranthene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Phenanthrene	0.61	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL
Pyrene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	49.3	30-130		1/25/18 15:33
2-Fluorobiphenyl	52.2	30-130		1/25/18 15:33
p-Terphenyl-d14	54.3	30-130		1/25/18 15:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188F (12-13) | Sampled: 1/19/2018 15:02

Sample ID: 18A0655-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	57	mg/Kg dry	5		CTDEP ETPH	1/23/18	1/24/18 15:57	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	81.0	50-150		1/24/18 15:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188F (12-13) | Sampled: 1/19/2018 15:02

Sample ID: 18A0655-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	1/23/18	1/24/18 7:15	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189A (0-0.5) | Sampled: 1/19/2018 15:30

Sample ID: 18A0655-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Anthracene	0.43	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Benzo(a)anthracene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Benzo(a)pyrene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Benzo(b)fluoranthene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Benzo(g,h,i)perylene	0.58	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Benzo(k)fluoranthene	0.54	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 15:58	BGL
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Chrysene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Fluoranthene	2.7	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Indeno(1,2,3-cd)pyrene	0.60	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189A (0-0.5) | Sampled: 1/19/2018 15:30

Sample ID: 18A0655-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Phenanthrene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Pyrene	2.2	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 15:58	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.1	30-130		1/25/18 15:58
Phenol-d6	64.4	30-130		1/25/18 15:58
Nitrobenzene-d5	64.7	30-130		1/25/18 15:58
2-Fluorobiphenyl	66.5	30-130		1/25/18 15:58
2,4,6-Tribromophenol	58.8	30-130		1/25/18 15:58
p-Terphenyl-d14	67.8	30-130		1/25/18 15:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189A (0-0.5) | Sampled: 1/19/2018 15:30

Sample ID: 18A0655-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1260 [2]	0.58	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	68.9	30-150				1/26/18 16:11
Decachlorobiphenyl [2]	69.6	30-150				1/26/18 16:11
Tetrachloro-m-xylene [1]	71.0	30-150				1/26/18 16:11
Tetrachloro-m-xylene [2]	72.7	30-150				1/26/18 16:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189A (0-0.5) | Sampled: 1/19/2018 15:30

Sample ID: 18A0655-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	36	12	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 14:46	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.2	50-150		1/24/18 14:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189A (0-0.5) | Sampled: 1/19/2018 15:30

Sample ID: 18A0655-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1	MS-07A	SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Barium	90	2.0	mg/Kg dry	1	MS-19	SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Beryllium	0.31	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Cadmium	0.21	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Chromium	20	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Copper	32	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Lead	19	0.59	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:01	EJB
Nickel	18	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/30/18 17:40	QNW
Vanadium	45	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW
Zinc	65	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:43	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189A (0-0.5) | Sampled: 1/19/2018 15:30

Sample ID: 18A0655-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	1/23/18	1/24/18 7:15	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189B (3-4) | Sampled: 1/19/2018 15:32

Sample ID: 18A0655-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1260 [2]	0.36	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	74.0	30-150				1/26/18 16:28
Decachlorobiphenyl [2]	76.5	30-150				1/26/18 16:28
Tetrachloro-m-xylene [1]	77.4	30-150				1/26/18 16:28
Tetrachloro-m-xylene [2]	80.5	30-150				1/26/18 16:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189B (3-4) | Sampled: 1/19/2018 15:32

Sample ID: 18A0655-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	1/23/18	1/24/18 7:15	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189C (7-8) | Sampled: 1/19/2018 15:34

Sample ID: 18A0655-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 16:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	80.1	30-150				1/26/18 16:46
Decachlorobiphenyl [2]	82.1	30-150				1/26/18 16:46
Tetrachloro-m-xylene [1]	84.9	30-150				1/26/18 16:46
Tetrachloro-m-xylene [2]	87.3	30-150				1/26/18 16:46

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189C (7-8) | Sampled: 1/19/2018 15:34

Sample ID: 18A0655-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.5		% Wt	1		SM 2540G	1/23/18	1/24/18 7:15	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Acrylonitrile	ND	0.0047	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Bromomethane	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Chlorodibromomethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Chloromethane	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2-Dibromoethane (EDB)	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
trans-1,4-Dichloro-2-butene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,3-Dichloropropane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
2,2-Dichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
cis-1,3-Dichloropropene	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Tetrahydrofuran	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1	L-03	SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
Vinyl Chloride	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 11:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.4	70-130		1/23/18 11:47
Toluene-d8	102	70-130		1/23/18 11:47
4-Bromofluorobenzene	94.1	70-130		1/23/18 11:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
4-Chloroaniline	ND	0.81	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 16:22	BGL
4-Chloro-3-methylphenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2,4-Dinitrophenol	ND	0.81	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
4-Nitrophenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:22	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	61.3	30-130		1/25/18 16:22
Phenol-d6	62.6	30-130		1/25/18 16:22
Nitrobenzene-d5	59.9	30-130		1/25/18 16:22
2-Fluorobiphenyl	61.6	30-130		1/25/18 16:22
2,4,6-Tribromophenol	60.6	30-130		1/25/18 16:22
p-Terphenyl-d14	72.7	30-130		1/25/18 16:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 17:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	75.6	30-150				1/26/18 17:52
Decachlorobiphenyl [2]	76.7	30-150				1/26/18 17:52
Tetrachloro-m-xylene [1]	74.6	30-150				1/26/18 17:52
Tetrachloro-m-xylene [2]	76.8	30-150				1/26/18 17:52

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	12	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 14:28	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	61.9	50-150					1/24/18 14:28	

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Barium	43	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Chromium	13	0.41	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Copper	23	0.41	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Lead	7.0	0.61	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:18	EJB
Nickel	11	0.41	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Silver	ND	0.41	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Vanadium	22	0.81	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW
Zinc	24	0.81	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 16:57	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189D (10-12) | Sampled: 1/19/2018 15:36

Sample ID: 18A0655-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	1/23/18	1/24/18 7:15	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189E (13-14) | Sampled: 1/19/2018 15:38

Sample ID: 18A0655-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Barium	64	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Beryllium	0.32	0.18	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Chromium	21	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Copper	43	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Lead	9.2	0.55	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:19	EJB
Nickel	19	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 18:05	QNW
Vanadium	42	0.74	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW
Zinc	47	0.74	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:01	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-189E (13-14) | Sampled: 1/19/2018 15:38

Sample ID: 18A0655-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.6		% Wt	1		SM 2540G	1/23/18	1/24/18 7:15	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190A (0-0.5) | Sampled: 1/19/2018 16:20

Sample ID: 18A0655-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Benzo(b)fluoranthene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
4-Chloroaniline	ND	0.78	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 16:46	BGL
4-Chloro-3-methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Fluoranthene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190A (0-0.5) | Sampled: 1/19/2018 16:20

Sample ID: 18A0655-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Pyrene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 16:46	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.6	30-130		1/25/18 16:46
Phenol-d6	66.3	30-130		1/25/18 16:46
Nitrobenzene-d5	65.0	30-130		1/25/18 16:46
2-Fluorobiphenyl	65.7	30-130		1/25/18 16:46
2,4,6-Tribromophenol	61.7	30-130		1/25/18 16:46
p-Terphenyl-d14	67.8	30-130		1/25/18 16:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190A (0-0.5) | Sampled: 1/19/2018 16:20

Sample ID: 18A0655-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1260 [2]	0.16	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	76.0	30-150				1/26/18 18:10
Decachlorobiphenyl [2]	78.5	30-150				1/26/18 18:10
Tetrachloro-m-xylene [1]	80.4	30-150				1/26/18 18:10
Tetrachloro-m-xylene [2]	83.3	30-150				1/26/18 18:10

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190A (0-0.5) | Sampled: 1/19/2018 16:20

Sample ID: 18A0655-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	46	12	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 20:22	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	50.6	50-150		1/24/18 20:22

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190A (0-0.5) | Sampled: 1/19/2018 16:20

Sample ID: 18A0655-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Barium	47	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Cadmium	0.65	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Chromium	13	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Copper	17	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Lead	17	0.58	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:21	EJB
Nickel	9.8	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Vanadium	25	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW
Zinc	58	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:05	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190A (0-0.5) | Sampled: 1/19/2018 16:20

Sample ID: 18A0655-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1		% Wt	1		SM 2540G	1/23/18	1/24/18 7:16	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190B (3-4) | Sampled: 1/19/2018 16:22

Sample ID: 18A0655-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	77.3	30-150				1/26/18 18:27
Decachlorobiphenyl [2]	79.0	30-150				1/26/18 18:27
Tetrachloro-m-xylene [1]	77.3	30-150				1/26/18 18:27
Tetrachloro-m-xylene [2]	79.9	30-150				1/26/18 18:27

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190B (3-4) | Sampled: 1/19/2018 16:22

Sample ID: 18A0655-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	1/23/18	1/24/18 7:16	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-199C (7-8) | Sampled: 1/19/2018 11:44

Sample ID: 18A0655-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 18:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	91.2	30-150				1/26/18 18:45
Decachlorobiphenyl [2]	93.0	30-150				1/26/18 18:45
Tetrachloro-m-xylene [1]	92.2	30-150				1/26/18 18:45
Tetrachloro-m-xylene [2]	94.8	30-150				1/26/18 18:45

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-199C (7-8) | Sampled: 1/19/2018 11:44

Sample ID: 18A0655-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	1/23/18	1/24/18 7:16	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-198A (0-0.5) | Sampled: 1/19/2018 12:00

Sample ID: 18A0655-22

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1260 [2]	0.12	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	63.4	30-150				1/26/18 19:03
Decachlorobiphenyl [2]	64.3	30-150				1/26/18 19:03
Tetrachloro-m-xylene [1]	66.1	30-150				1/26/18 19:03
Tetrachloro-m-xylene [2]	68.6	30-150				1/26/18 19:03

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-198A (0-0.5) | Sampled: 1/19/2018 12:00

Sample ID: 18A0655-22

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.1		% Wt	1		SM 2540G	1/23/18	1/24/18 7:16	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-198B (3-4) | Sampled: 1/19/2018 12:02

Sample ID: 18A0655-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 19:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	89.5	30-150				1/26/18 19:20
Decachlorobiphenyl [2]	91.1	30-150				1/26/18 19:20
Tetrachloro-m-xylene [1]	83.0	30-150				1/26/18 19:20
Tetrachloro-m-xylene [2]	85.7	30-150				1/26/18 19:20

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-198B (3-4) | Sampled: 1/19/2018 12:02

Sample ID: 18A0655-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.0		% Wt	1		SM 2540G	1/23/18	1/24/18 7:16	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-198C (7-8) | Sampled: 1/19/2018 12:04

Sample ID: 18A0655-24

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	102	30-150				1/26/18 20:07
Decachlorobiphenyl [2]	101	30-150				1/26/18 20:07
Tetrachloro-m-xylene [1]	93.9	30-150				1/26/18 20:07
Tetrachloro-m-xylene [2]	93.6	30-150				1/26/18 20:07

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-198C (7-8) | Sampled: 1/19/2018 12:04

Sample ID: 18A0655-24

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.9		% Wt	1		SM 2540G	1/23/18	1/24/18 7:16	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194A (0-0.5) | Sampled: 1/19/2018 12:40

Sample ID: 18A0655-25

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.58	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Acenaphthene	0.59	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Acenaphthylene	ND	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Aniline	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Anthracene	1.0	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Anthracene	1.0	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Benzo(a)anthracene	2.9	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Benzo(a)anthracene	3.1	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Benzo(a)pyrene	2.8	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Benzo(a)pyrene	2.9	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Benzo(b)fluoranthene	3.8	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Benzo(b)fluoranthene	3.9	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Benzo(g,h,i)perylene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Benzo(g,h,i)perylene	2.0	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Benzo(k)fluoranthene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Benzo(k)fluoranthene	1.5	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Bis(2-chloroethoxy)methane	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Bis(2-chloroethyl)ether	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Bis(2-chloroisopropyl)ether	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
4-Bromophenylphenylether	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Butylbenzylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Carbazole	0.58	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Carbazole	0.58	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
4-Chloroaniline	ND	1.6	mg/Kg dry	2	V-34, L-04	SW-846 8270D	1/23/18	1/26/18 16:16	BGL
4-Chloro-3-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
4-Chloro-3-methylphenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2-Chloronaphthalene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2-Chlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
4-Chlorophenylphenylether	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Chrysene	3.0	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Chrysene	3.2	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194A (0-0.5) | Sampled: 1/19/2018 12:40

Sample ID: 18A0655-25

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Dibenz(a,h)anthracene	0.47	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Dibenzofuran	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Di-n-butylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
3,3-Dichlorobenzidine	ND	0.41	mg/Kg dry	2	V-34	SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2,4-Dichlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Diethylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2,4-Dimethylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Dimethylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
4,6-Dinitro-2-methylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2,4-Dinitrophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2,4-Dinitrotoluene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2,6-Dinitrotoluene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Di-n-octylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Fluoranthene	6.7	0.20	mg/Kg dry	1	E	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Fluoranthene	6.7	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Fluorene	0.44	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Fluorene	0.46	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Hexachlorobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Hexachlorobutadiene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Hexachlorocyclopentadiene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Hexachloroethane	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Indeno(1,2,3-cd)pyrene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Indeno(1,2,3-cd)pyrene	2.2	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Isophorone	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2-Methylnaphthalene	ND	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194A (0-0.5) | Sampled: 1/19/2018 12:40

Sample ID: 18A0655-25

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2-Methylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
3/4-Methylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Naphthalene	ND	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2-Nitroaniline	ND	0.81	mg/Kg dry	2	V-36	SW-846 8270D	1/23/18	1/26/18 16:16	BGL
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
3-Nitroaniline	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
4-Nitroaniline	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Nitrobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2-Nitrophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
4-Nitrophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
N-Nitrosodiphenylamine	ND	0.81	mg/Kg dry	2	V-36	SW-846 8270D	1/23/18	1/26/18 16:16	BGL
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
N-Nitrosodi-n-propylamine	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Pentachloronitrobenzene	ND	0.81	mg/Kg dry	2	V-16	SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Pentachlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Phenanthrene	4.4	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Phenanthrene	4.8	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Phenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Pyrene	5.3	0.20	mg/Kg dry	1	E	SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Pyrene	5.6	0.41	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
Pyridine	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
1,2,4-Trichlorobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2,4,5-Trichlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:11	BGL
2,4,6-Trichlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	1/23/18	1/26/18 16:16	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.1	30-130		1/25/18 17:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194A (0-0.5) | Sampled: 1/19/2018 12:40

Sample ID: 18A0655-25

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		54.2	30-130					1/26/18 16:16	
Phenol-d6		53.0	30-130					1/25/18 17:11	
Phenol-d6		53.5	30-130					1/26/18 16:16	
Nitrobenzene-d5		52.9	30-130					1/25/18 17:11	
Nitrobenzene-d5		58.0	30-130					1/26/18 16:16	
2-Fluorobiphenyl		53.3	30-130					1/25/18 17:11	
2-Fluorobiphenyl		57.2	30-130					1/26/18 16:16	
2,4,6-Tribromophenol		49.5	30-130					1/25/18 17:11	
2,4,6-Tribromophenol		52.6	30-130					1/26/18 16:16	
p-Terphenyl-d14		55.0	30-130					1/25/18 17:11	
p-Terphenyl-d14		56.1	30-130					1/26/18 16:16	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194A (0-0.5) | Sampled: 1/19/2018 12:40

Sample ID: 18A0655-25

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	190	59	mg/Kg dry	5		CTDEP ETPH	1/25/18	1/27/18 12:13	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	57.7	50-150		1/27/18 12:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194A (0-0.5) | Sampled: 1/19/2018 12:40

Sample ID: 18A0655-25

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Barium	65	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Cadmium	0.59	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Chromium	19	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Copper	28	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Lead	52	0.60	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Mercury	0.085	0.031	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:23	EJB
Nickel	13	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Vanadium	32	0.80	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW
Zinc	60	0.80	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:09	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194A (0-0.5) | Sampled: 1/19/2018 12:40

Sample ID: 18A0655-25

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	1/23/18	1/24/18 7:17	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194B (10-12) | Sampled: 1/19/2018 12:42

Sample ID: 18A0655-26

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Acrylonitrile	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Bromomethane	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
2-Butanone (MEK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Carbon Disulfide	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Chlorodibromomethane	ND	0.00063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Chloroform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Chloromethane	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
trans-1,4-Dichloro-2-butene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,3-Dichloropropane	ND	0.00063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
cis-1,3-Dichloropropene	ND	0.00063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
trans-1,3-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194B (10-12) | Sampled: 1/19/2018 12:42

Sample ID: 18A0655-26

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Naphthalene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Tetrahydrofuran	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1	L-03	SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
Vinyl Chloride	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
m+p Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.4	70-130		1/23/18 12:14
Toluene-d8	101	70-130		1/23/18 12:14
4-Bromofluorobenzene	96.0	70-130		1/23/18 12:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194B (10-12) | Sampled: 1/19/2018 12:42

Sample ID: 18A0655-26

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
4-Chloroaniline	ND	0.78	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 17:36	BGL
4-Chloro-3-methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194B (10-12) | Sampled: 1/19/2018 12:42

Sample ID: 18A0655-26

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 17:36	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	74.4	30-130		1/25/18 17:36
Phenol-d6	73.1	30-130		1/25/18 17:36
Nitrobenzene-d5	72.1	30-130		1/25/18 17:36
2-Fluorobiphenyl	73.7	30-130		1/25/18 17:36
2,4,6-Tribromophenol	68.5	30-130		1/25/18 17:36
p-Terphenyl-d14	78.6	30-130		1/25/18 17:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194B (10-12) | Sampled: 1/19/2018 12:42

Sample ID: 18A0655-26

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	12	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/25/18 11:16	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	56.6	50-150					1/25/18 11:16	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT Sample Description: Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194B (10-12) Sampled: 1/19/2018 12:42

Sample ID: 18A0655-26

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Barium	100	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Beryllium	0.23	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Chromium	20	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Copper	43	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Lead	11	0.59	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:28	EJB
Nickel	18	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 18:09	QNW
Vanadium	36	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW
Zinc	48	0.78	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:13	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194B (10-12) | Sampled: 1/19/2018 12:42

Sample ID: 18A0655-26

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	1/23/18	1/24/18 7:17	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194C (13-14) | Sampled: 1/19/2018 12:44

Sample ID: 18A0655-27

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Barium	110	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Beryllium	0.53	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Cadmium	0.20	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Chromium	22	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Copper	33	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Lead	11	0.56	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:30	EJB
Nickel	20	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/30/18 17:44	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/30/18 17:44	QNW
Vanadium	41	0.75	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW
Zinc	56	0.75	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:35	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-194C (13-14) | Sampled: 1/19/2018 12:44

Sample ID: 18A0655-27

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	1/23/18	1/24/18 7:17	MRL

con-test® ANALYTICAL LABORATORY
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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188A (0-0.5) | Sampled: 1/19/2018 14:52

Sample ID: 18A0655-28

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Aniline	ND	0.40	mg/Kg dry	1	MS-09, V-34	SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Anthracene	0.38	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Benzo(a)anthracene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Benzo(a)pyrene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Benzo(b)fluoranthene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Benzo(g,h,i)perylene	0.67	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Benzo(k)fluoranthene	0.64	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
4-Chloroaniline	ND	0.78	mg/Kg dry	1	L-04, MS-09, V-34	SW-846 8270D	1/23/18	1/25/18 18:01	BGL
4-Chloro-3-methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Chrysene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	MS-09, R-06, V-34	SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Fluoranthene	2.7	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1	MS-09, V-19	SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Indeno(1,2,3-cd)pyrene	0.72	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188A (0-0.5) | Sampled: 1/19/2018 14:52

Sample ID: 18A0655-28

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
3-Nitroaniline	ND	0.40	mg/Kg dry	1	MS-09	SW-846 8270D	1/23/18	1/25/18 18:01	BGL
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Phenanthrene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Pyrene	2.3	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:01	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	56.3	30-130		1/25/18 18:01
Phenol-d6	58.8	30-130		1/25/18 18:01
Nitrobenzene-d5	56.7	30-130		1/25/18 18:01
2-Fluorobiphenyl	58.9	30-130		1/25/18 18:01
2,4,6-Tribromophenol	57.6	30-130		1/25/18 18:01
p-Terphenyl-d14	62.8	30-130		1/25/18 18:01

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188A (0-0.5) | Sampled: 1/19/2018 14:52

Sample ID: 18A0655-28

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1254 [1]	0.14	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1260 [1]	0.49	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	85.8	30-150			1/26/18 20:25
Decachlorobiphenyl [2]	94.0	30-150			1/26/18 20:25
Tetrachloro-m-xylene [1]	98.0	30-150			1/26/18 20:25
Tetrachloro-m-xylene [2]	101	30-150			1/26/18 20:25

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188A (0-0.5) | Sampled: 1/19/2018 14:52

Sample ID: 18A0655-28

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	12	mg/Kg dry	1	MS-07A	CTDEP ETPH	1/23/18	1/24/18 21:14	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	**48.6** *	50-150	S-25	1/24/18 21:14

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188A (0-0.5) | Sampled: 1/19/2018 14:52

Sample ID: 18A0655-28

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1	MS-07A	SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Barium	73	2.0	mg/Kg dry	1	MS-12	SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Cadmium	0.40	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Chromium	14	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Copper	27	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Lead	19	0.59	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:49	EJB
Nickel	12	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/30/18 16:14	QNW
Vanadium	33	0.79	mg/Kg dry	1	MS-23	SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP
Zinc	59	0.79	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:43	AMP

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188A (0-0.5) | Sampled: 1/19/2018 14:52

Sample ID: 18A0655-28

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	1/23/18	1/24/18 7:17	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188B (3-4) | Sampled: 1/19/2018 14:54

Sample ID: 18A0655-29

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1254 [2]	0.13	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1260 [2]	0.45	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 20:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	87.1	30-150				1/26/18 20:43
Decachlorobiphenyl [2]	94.3	30-150				1/26/18 20:43
Tetrachloro-m-xylene [1]	95.5	30-150				1/26/18 20:43
Tetrachloro-m-xylene [2]	99.5	30-150				1/26/18 20:43



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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188B (3-4) | Sampled: 1/19/2018 14:54

Sample ID: 18A0655-29

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	1/23/18	1/24/18 7:18	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188C (7-8) | Sampled: 1/19/2018 14:56

Sample ID: 18A0655-30

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/23/18	1/26/18 21:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		1/26/18 21:00
Decachlorobiphenyl [2]	106	30-150		1/26/18 21:00
Tetrachloro-m-xylene [1]	101	30-150		1/26/18 21:00
Tetrachloro-m-xylene [2]	104	30-150		1/26/18 21:00

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-188C (7-8) | Sampled: 1/19/2018 14:56

Sample ID: 18A0655-30

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.5		% Wt	1		SM 2540G	1/23/18	1/24/18 7:18	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190C (7-8) | Sampled: 1/19/2018 16:24

Sample ID: 18A0655-31

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1260 [1]	0.11	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 9:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	64.4	30-150				1/28/18 9:25
Decachlorobiphenyl [2]	70.7	30-150				1/28/18 9:25
Tetrachloro-m-xylene [1]	70.9	30-150				1/28/18 9:25
Tetrachloro-m-xylene [2]	83.2	30-150				1/28/18 9:25

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190C (7-8) | Sampled: 1/19/2018 16:24

Sample ID: 18A0655-31

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	1/23/18	1/24/18 7:20	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Acrylonitrile	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Bromomethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Carbon Disulfide	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Chlorodibromomethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Chloromethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2-Dibromoethane (EDB)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,3-Dichloropropane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
2,2-Dichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
cis-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
trans-1,3-Dichloropropene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1	MS-07A	SW-846 8260C	1/23/18	1/23/18 9:25	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Tetrahydrofuran	ND	0.0074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1	L-03	SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
Vinyl Chloride	ND	0.0074	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 9:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	95.8	70-130		1/23/18	9:25
Toluene-d8	102	70-130		1/23/18	9:25
4-Bromofluorobenzene	95.6	70-130		1/23/18	9:25

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Aniline	ND	0.39	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
4-Chloroaniline	ND	0.76	mg/Kg dry	1	V-34, L-04	SW-846 8270D	1/23/18	1/25/18 18:25	BGL
4-Chloro-3-methylphenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:25	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	59.9	30-130		1/25/18 18:25
Phenol-d6	60.9	30-130		1/25/18 18:25
Nitrobenzene-d5	56.3	30-130		1/25/18 18:25
2-Fluorobiphenyl	59.6	30-130		1/25/18 18:25
2,4,6-Tribromophenol	55.7	30-130		1/25/18 18:25
p-Terphenyl-d14	65.0	30-130		1/25/18 18:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1260 [2]	1.5	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	8		SW-846 8082A	1/24/18	1/29/18 11:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	89.5	30-150				1/29/18 11:26
Decachlorobiphenyl [2]	89.1	30-150				1/29/18 11:26
Tetrachloro-m-xylene [1]	88.8	30-150				1/29/18 11:26
Tetrachloro-m-xylene [2]	99.7	30-150				1/29/18 11:26

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	12	11	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/25/18 10:59	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	67.6	50-150					1/25/18 10:59	

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1	MS-07A	SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Barium	72	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/30/18 16:38	QNW
Beryllium	0.21	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Chromium	24	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Copper	34	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Lead	16	0.57	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Mercury	0.030	0.028	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:50	EJB
Nickel	22	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/30/18 16:38	QNW
Vanadium	41	0.77	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW
Zinc	62	0.77	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/29/18 17:56	QNW

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190D (10-12) | Sampled: 1/19/2018 16:26

Sample ID: 18A0655-32

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	1/23/18	1/24/18 7:20	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190E (13-14) | Sampled: 1/19/2018 16:28

Sample ID: 18A0655-33

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	3.3	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Barium	100	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Beryllium	0.50	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Cadmium	0.30	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Chromium	23	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Copper	57	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Lead	11	0.56	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:52	EJB
Nickel	22	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Vanadium	41	0.74	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP
Zinc	62	0.74	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:51	AMP

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: B-190E (13-14) | Sampled: 1/19/2018 16:28

Sample ID: 18A0655-33

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	1/23/18	1/24/18 7:20	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-3 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-34

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Acrylonitrile	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Bromomethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
2-Butanone (MEK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Chlorodibromomethane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Chloroform	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Chloromethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,3-Dichloropropane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
2,2-Dichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
cis-1,3-Dichloropropene	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-3 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-34

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Naphthalene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Tetrahydrofuran	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1	L-03	SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
Vinyl Chloride	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
m+p Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/23/18	1/23/18 12:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	94.7	70-130			1/23/18 12:40
Toluene-d8	104	70-130			1/23/18 12:40
4-Bromofluorobenzene	94.1	70-130			1/23/18 12:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-3 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-34

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Aniline	ND	0.38	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
4-Chloroaniline	ND	0.74	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 18:50	BGL
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-3 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-34

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 18:50	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	65.6	30-130		1/25/18 18:50
Phenol-d6	67.4	30-130		1/25/18 18:50
Nitrobenzene-d5	65.5	30-130		1/25/18 18:50
2-Fluorobiphenyl	68.9	30-130		1/25/18 18:50
2,4,6-Tribromophenol	65.6	30-130		1/25/18 18:50
p-Terphenyl-d14	78.7	30-130		1/25/18 18:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-3 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-34

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/25/18 10:41	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	59.3	50-150					1/25/18 10:41	

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-3 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-34

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	1/23/18	1/24/18 7:20	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-4 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-35

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.5	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Barium	80	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Beryllium	0.34	0.18	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Cadmium	0.23	0.18	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Chromium	20	0.36	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Copper	36	0.36	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Lead	9.4	0.55	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:54	EJB
Nickel	19	0.36	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Vanadium	31	0.73	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP
Zinc	45	0.73	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:54	AMP

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-4 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-35

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.5		% Wt	1		SM 2540G	1/23/18	1/24/18 7:21	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-5 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-36

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/25/18 19:14	BGL
4-Chloro-3-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	V-04	SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-5 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-36

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/25/18 19:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	69.9	30-130		1/25/18 19:14
Phenol-d6	71.4	30-130		1/25/18 19:14
Nitrobenzene-d5	67.0	30-130		1/25/18 19:14
2-Fluorobiphenyl	68.4	30-130		1/25/18 19:14
2,4,6-Tribromophenol	64.6	30-130		1/25/18 19:14
p-Terphenyl-d14	72.0	30-130		1/25/18 19:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-5 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-36

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1260 [1]	0.097	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		1/28/18 10:01
Decachlorobiphenyl [2]	76.2	30-150		1/28/18 10:01
Tetrachloro-m-xylene [1]	79.5	30-150		1/28/18 10:01
Tetrachloro-m-xylene [2]	88.3	30-150		1/28/18 10:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-5 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-36

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	48	12	mg/Kg dry	1		CTDEP ETPH	1/23/18	1/24/18 20:39	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	66.0	50-150		1/24/18 20:39

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-5 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-36

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	3.3	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Barium	130	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Beryllium	0.38	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Chromium	24	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Copper	27	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Lead	11	0.60	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:55	EJB
Nickel	22	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Vanadium	37	0.80	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP
Zinc	51	0.80	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 19:58	AMP

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-5 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-36

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	1/23/18	1/24/18 7:21	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-6 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-37

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/24/18	1/28/18 10:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.0	30-150		1/28/18 10:19
Decachlorobiphenyl [2]	78.0	30-150		1/28/18 10:19
Tetrachloro-m-xylene [1]	78.0	30-150		1/28/18 10:19
Tetrachloro-m-xylene [2]	87.7	30-150		1/28/18 10:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-6 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-37

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	1/23/18	1/24/18 7:21	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-7 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-38

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.3	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Barium	75	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Beryllium	0.30	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Chromium	21	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Copper	32	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Lead	11	0.56	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/24/18	1/25/18 14:57	EJB
Nickel	18	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Vanadium	30	0.75	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP
Zinc	46	0.75	mg/Kg dry	1		SW-846 6010C-D	1/24/18	1/25/18 20:01	AMP

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: DUP-7 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-38

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	1/23/18	1/24/18 7:31	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Bromomethane	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Naphthalene	ND	2.0	µg/L	1	L-03	SW-846 8260C	1/23/18	1/23/18 13:22	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		1/23/18 13:22
Toluene-d8	92.7	70-130		1/23/18 13:22
4-Bromofluorobenzene	81.3	70-130		1/23/18 13:22

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Aniline	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	1/23/18	1/25/18 12:59	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	1/25/18	1/26/18 14:25	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/23/18	1/25/18 12:59	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.9	15-110		1/25/18 12:59
Phenol-d6	28.2	15-110		1/25/18 12:59
Nitrobenzene-d5	75.9	30-130		1/25/18 12:59
Nitrobenzene-d5	76.3	30-130		1/26/18 14:25
2-Fluorobiphenyl	61.7	30-130		1/26/18 14:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorobiphenyl		74.4	30-130					1/25/18 12:59	
2,4,6-Tribromophenol		80.8	15-110					1/25/18 12:59	
p-Terphenyl-d14		63.6	30-130					1/26/18 14:25	
p-Terphenyl-d14		85.6	30-130					1/25/18 12:59	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/23/18	1/25/18 23:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	30.8	30-150		1/25/18 23:13
Decachlorobiphenyl [2]	32.0	30-150		1/25/18 23:13
Tetrachloro-m-xylene [1]	65.8	30-150		1/25/18 23:13
Tetrachloro-m-xylene [2]	68.5	30-150		1/25/18 23:13

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.069	mg/L	1		CTDEP ETPH	1/23/18	1/26/18 13:58	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	91.6	50-150						1/26/18 13:58

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011918 | Sampled: 1/19/2018 17:50

Sample ID: 18A0655-39

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Barium	ND	50	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/23/18	1/23/18 14:57	EJB
Nickel	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:45	MJH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: EB-011818 | Sampled: 1/18/2018 17:00

Sample ID: 18A0655-40

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Barium	ND	50	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/23/18	1/23/18 14:58	EJB
Nickel	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	1/23/18	1/23/18 17:49	MJH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: TB-011918 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-41

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Bromomethane	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: TB-011918 | Sampled: 1/19/2018 00:00

Sample ID: 18A0655-41

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Naphthalene	ND	2.0	µg/L	1	L-03	SW-846 8260C	1/23/18	1/23/18 13:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/23/18	1/23/18 13:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		1/23/18 13:45
Toluene-d8	91.5	70-130		1/23/18 13:45
4-Bromofluorobenzene	81.2	70-130		1/23/18 13:45

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18A0655

Date Received: 1/22/2018

Field Sample #: Decon Water | Sampled: 1/19/2018 16:30

Sample ID: 18A0655-42

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1221 [1]	ND	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1232 [1]	ND	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1242 [1]	ND	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1248 [1]	ND	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1254 [2]	2.3	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1260 [1]	2.1	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1262 [1]	ND	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG
Aroclor-1268 [1]	ND	0.89	µg/L	4		SW-846 8082A	1/23/18	1/26/18 9:37	TG

Surrogates	% Recovery		Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	**9.35**	*	30-150	S-18		1/26/18 9:37
Decachlorobiphenyl [2]	**9.43**	*	30-150	S-18		1/26/18 9:37
Tetrachloro-m-xylene [1]	51.7		30-150			1/26/18 9:37
Tetrachloro-m-xylene [2]	52.2		30-150			1/26/18 9:37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-01 [B-191A (0-0.5)]	B195345	30.0	1.00	01/23/18
18A0655-02 [B-191B (10-12)]	B195345	30.0	1.00	01/23/18
18A0655-04 [B-200A (0-0.5)]	B195345	30.0	1.00	01/23/18
18A0655-06 [B-200C (5-7)]	B195345	30.0	1.00	01/23/18
18A0655-12 [B-188E (13-15)]	B195345	30.0	1.00	01/23/18
18A0655-13 [B-188F (12-13)]	B195345	30.0	1.00	01/23/18
18A0655-14 [B-189A (0-0.5)]	B195345	30.0	1.00	01/23/18
18A0655-17 [B-189D (10-12)]	B195345	30.0	1.00	01/23/18
18A0655-19 [B-190A (0-0.5)]	B195345	30.0	1.00	01/23/18
18A0655-26 [B-194B (10-12)]	B195345	30.0	1.00	01/23/18
18A0655-28 [B-188A (0-0.5)]	B195345	30.0	1.00	01/23/18
18A0655-32 [B-190D (10-12)]	B195345	30.0	1.00	01/23/18
18A0655-34 [DUP-3]	B195345	30.0	1.00	01/23/18
18A0655-36 [DUP-5]	B195345	30.0	1.00	01/23/18

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-25RE1 [B-194A (0-0.5)]	B195592	30.3	1.00	01/25/18

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0655-39 [EB-011918]	B195343	980	0.900	01/23/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18A0655-01 [B-191A (0-0.5)]	B195355	01/23/18
18A0655-02 [B-191B (10-12)]	B195355	01/23/18
18A0655-03 [B-191C (13-14)]	B195355	01/23/18
18A0655-04 [B-200A (0-0.5)]	B195355	01/23/18
18A0655-05 [B-200B (3-4)]	B195355	01/23/18
18A0655-06 [B-200C (5-7)]	B195355	01/23/18
18A0655-07 [B-200D (7-8)]	B195355	01/23/18
18A0655-08 [B-200E (13-14)]	B195355	01/23/18
18A0655-09 [B-199A (0-0.5)]	B195355	01/23/18
18A0655-10 [B-199B (3-4)]	B195355	01/23/18
18A0655-11 [B-188D (10-11)]	B195355	01/23/18
18A0655-12 [B-188E (13-15)]	B195355	01/23/18
18A0655-13 [B-188F (12-13)]	B195355	01/23/18
18A0655-14 [B-189A (0-0.5)]	B195355	01/23/18
18A0655-15 [B-189B (3-4)]	B195355	01/23/18
18A0655-16 [B-189C (7-8)]	B195355	01/23/18
18A0655-17 [B-189D (10-12)]	B195355	01/23/18
18A0655-18 [B-189E (13-14)]	B195355	01/23/18
18A0655-19 [B-190A (0-0.5)]	B195355	01/23/18
18A0655-20 [B-190B (3-4)]	B195355	01/23/18
18A0655-21 [B-199C (7-8)]	B195355	01/23/18
18A0655-22 [B-198A (0-0.5)]	B195355	01/23/18
18A0655-23 [B-198B (3-4)]	B195355	01/23/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18A0655-24 [B-198C (7-8)]	B195355	01/23/18
18A0655-25 [B-194A (0-0.5)]	B195355	01/23/18
18A0655-26 [B-194B (10-12)]	B195355	01/23/18
18A0655-27 [B-194C (13-14)]	B195355	01/23/18
18A0655-28 [B-188A (0-0.5)]	B195355	01/23/18
18A0655-29 [B-188B (3-4)]	B195355	01/23/18
18A0655-30 [B-188C (7-8)]	B195355	01/23/18
18A0655-31 [B-190C (7-8)]	B195355	01/23/18
18A0655-32 [B-190D (10-12)]	B195355	01/23/18
18A0655-33 [B-190E (13-14)]	B195355	01/23/18
18A0655-34 [DUP-3]	B195355	01/23/18
18A0655-35 [DUP-4]	B195355	01/23/18
18A0655-36 [DUP-5]	B195355	01/23/18
18A0655-37 [DUP-6]	B195355	01/23/18
18A0655-38 [DUP-7]	B195355	01/23/18

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-01 [B-191A (0-0.5)]	B195354	1.50	50.0	01/24/18
18A0655-08 [B-200E (13-14)]	B195354	1.50	50.0	01/24/18
18A0655-11 [B-188D (10-11)]	B195354	1.50	50.0	01/24/18
18A0655-12 [B-188E (13-15)]	B195354	1.51	50.0	01/24/18
18A0655-14 [B-189A (0-0.5)]	B195354	1.50	50.0	01/24/18
18A0655-17 [B-189D (10-12)]	B195354	1.50	50.0	01/24/18
18A0655-18 [B-189E (13-14)]	B195354	1.50	50.0	01/24/18
18A0655-19 [B-190A (0-0.5)]	B195354	1.53	50.0	01/24/18
18A0655-25 [B-194A (0-0.5)]	B195354	1.49	50.0	01/24/18
18A0655-26 [B-194B (10-12)]	B195354	1.51	50.0	01/24/18
18A0655-27 [B-194C (13-14)]	B195354	1.52	50.0	01/24/18

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-28 [B-188A (0-0.5)]	B195446	1.50	50.0	01/24/18
18A0655-32 [B-190D (10-12)]	B195446	1.49	50.0	01/24/18
18A0655-33 [B-190E (13-14)]	B195446	1.49	50.0	01/24/18
18A0655-35 [DUP-4]	B195446	1.52	50.0	01/24/18
18A0655-36 [DUP-5]	B195446	1.49	50.0	01/24/18
18A0655-38 [DUP-7]	B195446	1.53	50.0	01/24/18

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-02RE1 [B-191B (10-12)]	B195637	1.50	50.0	01/26/18
18A0655-03RE1 [B-191C (13-14)]	B195637	1.53	50.0	01/26/18
18A0655-04RE1 [B-200A (0-0.5)]	B195637	1.51	50.0	01/26/18
18A0655-06RE1 [B-200C (5-7)]	B195637	1.53	50.0	01/26/18

con-test® ANALYTICAL LABORATORY
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Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0655-39 [EB-011918]	B195356	50.0	50.0	01/23/18
18A0655-40 [EB-011818]	B195356	50.0	50.0	01/23/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0655-39 [EB-011918]	B195373	6.00	6.00	01/23/18
18A0655-40 [EB-011818]	B195373	6.00	6.00	01/23/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-01 [B-191A (0-0.5)]	B195349	0.620	50.0	01/24/18
18A0655-02 [B-191B (10-12)]	B195349	0.613	50.0	01/24/18
18A0655-03 [B-191C (13-14)]	B195349	0.571	50.0	01/24/18
18A0655-04 [B-200A (0-0.5)]	B195349	0.601	50.0	01/24/18
18A0655-06 [B-200C (5-7)]	B195349	0.610	50.0	01/24/18
18A0655-08 [B-200E (13-14)]	B195349	0.599	50.0	01/24/18
18A0655-11 [B-188D (10-11)]	B195349	0.610	50.0	01/24/18
18A0655-12 [B-188E (13-15)]	B195349	0.594	50.0	01/24/18
18A0655-14 [B-189A (0-0.5)]	B195349	0.596	50.0	01/24/18
18A0655-17 [B-189D (10-12)]	B195349	0.590	50.0	01/24/18
18A0655-18 [B-189E (13-14)]	B195349	0.584	50.0	01/24/18
18A0655-19 [B-190A (0-0.5)]	B195349	0.570	50.0	01/24/18
18A0655-25 [B-194A (0-0.5)]	B195349	0.584	50.0	01/24/18
18A0655-26 [B-194B (10-12)]	B195349	0.590	50.0	01/24/18
18A0655-27 [B-194C (13-14)]	B195349	0.618	50.0	01/24/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-28 [B-188A (0-0.5)]	B195447	0.622	50.0	01/24/18
18A0655-32 [B-190D (10-12)]	B195447	0.616	50.0	01/24/18
18A0655-33 [B-190E (13-14)]	B195447	0.618	50.0	01/24/18
18A0655-35 [DUP-4]	B195447	0.604	50.0	01/24/18
18A0655-36 [DUP-5]	B195447	0.599	50.0	01/24/18
18A0655-38 [DUP-7]	B195447	0.614	50.0	01/24/18

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-04 [B-200A (0-0.5)]	B195410	10.0	10.0	01/23/18
18A0655-05 [B-200B (3-4)]	B195410	10.0	10.0	01/23/18
18A0655-06 [B-200C (5-7)]	B195410	10.0	10.0	01/23/18
18A0655-07 [B-200D (7-8)]	B195410	10.0	10.0	01/23/18
18A0655-09 [B-199A (0-0.5)]	B195410	10.0	10.0	01/23/18
18A0655-10 [B-199B (3-4)]	B195410	10.0	10.0	01/23/18
18A0655-12 [B-188E (13-15)]	B195410	10.0	10.0	01/23/18
18A0655-14 [B-189A (0-0.5)]	B195410	10.0	10.0	01/23/18
18A0655-15 [B-189B (3-4)]	B195410	10.0	10.0	01/23/18

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-16 [B-189C (7-8)]	B195410	10.0	10.0	01/23/18
18A0655-17 [B-189D (10-12)]	B195410	10.0	10.0	01/23/18
18A0655-19 [B-190A (0-0.5)]	B195410	10.0	10.0	01/23/18
18A0655-20 [B-190B (3-4)]	B195410	10.0	10.0	01/23/18
18A0655-21 [B-199C (7-8)]	B195410	10.0	10.0	01/23/18
18A0655-22 [B-198A (0-0.5)]	B195410	10.0	10.0	01/23/18
18A0655-23 [B-198B (3-4)]	B195410	10.0	10.0	01/23/18
18A0655-24 [B-198C (7-8)]	B195410	10.0	10.0	01/23/18
18A0655-28 [B-188A (0-0.5)]	B195410	10.0	10.0	01/23/18
18A0655-29 [B-188B (3-4)]	B195410	10.0	10.0	01/23/18
18A0655-30 [B-188C (7-8)]	B195410	10.0	10.0	01/23/18

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-31 [B-190C (7-8)]	B195477	10.2	10.0	01/24/18
18A0655-32 [B-190D (10-12)]	B195477	10.4	10.0	01/24/18
18A0655-36 [DUP-5]	B195477	10.1	10.0	01/24/18
18A0655-37 [DUP-6]	B195477	10.6	10.0	01/24/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0655-39 [EB-011918]	B195342	1000	10.0	01/23/18
18A0655-42 [Decon Water]	B195342	900	10.0	01/23/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-02 [B-191B (10-12)]	B195379	6.75	10.0	01/23/18
18A0655-06 [B-200C (5-7)]	B195379	8.37	10.0	01/23/18
18A0655-12 [B-188E (13-15)]	B195379	8.51	10.0	01/23/18
18A0655-17 [B-189D (10-12)]	B195379	7.72	10.0	01/23/18
18A0655-26 [B-194B (10-12)]	B195379	9.30	10.0	01/23/18
18A0655-32 [B-190D (10-12)]	B195379	7.74	10.0	01/23/18
18A0655-34 [DUP-3]	B195379	6.33	10.0	01/23/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0655-39 [EB-011918]	B195318	5	5.00	01/23/18
18A0655-41 [TB-011918]	B195318	5	5.00	01/23/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-01 [B-191A (0-0.5)]	B195346	30.0	1.00	01/23/18
18A0655-02 [B-191B (10-12)]	B195346	30.0	1.00	01/23/18
18A0655-04 [B-200A (0-0.5)]	B195346	30.0	1.00	01/23/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0655-06 [B-200C (5-7)]	B195346	30.0	1.00	01/23/18
18A0655-12 [B-188E (13-15)]	B195346	30.0	1.00	01/23/18
18A0655-13 [B-188F (12-13)]	B195346	30.0	1.00	01/23/18
18A0655-14 [B-189A (0-0.5)]	B195346	30.0	1.00	01/23/18
18A0655-17 [B-189D (10-12)]	B195346	30.0	1.00	01/23/18
18A0655-19 [B-190A (0-0.5)]	B195346	30.0	1.00	01/23/18
18A0655-25 [B-194A (0-0.5)]	B195346	30.0	1.00	01/23/18
18A0655-25RE1 [B-194A (0-0.5)]	B195346	30.0	1.00	01/23/18
18A0655-26 [B-194B (10-12)]	B195346	30.0	1.00	01/23/18
18A0655-28 [B-188A (0-0.5)]	B195346	30.0	1.00	01/23/18
18A0655-32 [B-190D (10-12)]	B195346	30.0	1.00	01/23/18
18A0655-34 [DUP-3]	B195346	30.0	1.00	01/23/18
18A0655-36 [DUP-5]	B195346	30.0	1.00	01/23/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0655-39RE1 [EB-011918]	B195626	1000	1.00	01/25/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0655-39 [EB-011918]	B195629	1000	1.00	01/23/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195318 - SW-846 5030B										
Blank (B195318-BLK1)				Prepared: 01/22/18 Analyzed: 01/23/18						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	2.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							L-03
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195318 - SW-846 5030B										
Blank (B195318-BLK1)				Prepared: 01/22/18 Analyzed: 01/23/18						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	2.0	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*26.4*		µg/L	25.0		106	70-130			
Surrogate: Toluene-d8	*23.2*		µg/L	25.0		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	*19.7*		µg/L	25.0		78.8	70-130			
LCS (B195318-BS1)				Prepared: 01/22/18 Analyzed: 01/23/18						
Acetone	99.0	10	µg/L	100		99.0	70-130			
Acrylonitrile	11.4	2.0	µg/L	10.0		114	70-130			
Benzene	9.58	0.50	µg/L	10.0		95.8	70-130			
Bromobenzene	10.3	0.50	µg/L	10.0		103	70-130			
Bromodichloromethane	9.62	0.50	µg/L	10.0		96.2	70-130			
Bromoform	10.6	0.50	µg/L	10.0		106	70-130			
Bromomethane	8.64	1.0	µg/L	10.0		86.4	70-130			
2-Butanone (MEK)	109	5.0	µg/L	100		109	70-130			
n-Butylbenzene	7.87	1.0	µg/L	10.0		78.7	70-130			
sec-Butylbenzene	8.19	1.0	µg/L	10.0		81.9	70-130			
tert-Butylbenzene	7.68	1.0	µg/L	10.0		76.8	70-130			
Carbon Disulfide	79.2	5.0	µg/L	100		79.2	70-130			
Carbon Tetrachloride	8.69	0.50	µg/L	10.0		86.9	70-130			
Chlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
Chlorodibromomethane	9.84	0.50	µg/L	10.0		98.4	70-130			
Chloroethane	9.12	0.50	µg/L	10.0		91.2	70-130			
Chloroform	9.45	0.50	µg/L	10.0		94.5	70-130			
Chloromethane	9.54	2.0	µg/L	10.0		95.4	70-130			
2-Chlorotoluene	9.74	0.50	µg/L	10.0		97.4	70-130			
4-Chlorotoluene	10.0	0.50	µg/L	10.0		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.58	1.0	µg/L	10.0		95.8	70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130			
Dibromomethane	10.7	0.50	µg/L	10.0		107	70-130			
1,2-Dichlorobenzene	9.76	0.50	µg/L	10.0		97.6	70-130			
1,3-Dichlorobenzene	10.1	0.50	µg/L	10.0		101	70-130			
1,4-Dichlorobenzene	9.83	0.50	µg/L	10.0		98.3	70-130			
trans-1,4-Dichloro-2-butene	8.17	2.0	µg/L	10.0		81.7	70-130			
Dichlorodifluoromethane (Freon 12)	8.39	0.50	µg/L	10.0		83.9	70-130			
1,1-Dichloroethane	9.03	0.50	µg/L	10.0		90.3	70-130			
1,2-Dichloroethane	9.82	0.50	µg/L	10.0		98.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195318 - SW-846 5030B											
LCS (B195318-BS1)				Prepared: 01/22/18 Analyzed: 01/23/18							
1,1-Dichloroethylene	8.39	0.50	µg/L	10.0		83.9		70-130			
cis-1,2-Dichloroethylene	9.25	0.50	µg/L	10.0		92.5		70-130			
trans-1,2-Dichloroethylene	9.13	1.0	µg/L	10.0		91.3		70-130			
1,2-Dichloropropane	9.98	0.50	µg/L	10.0		99.8		70-130			
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104		70-130			
2,2-Dichloropropane	8.83	0.50	µg/L	10.0		88.3		70-130			
1,1-Dichloropropene	8.31	0.50	µg/L	10.0		83.1		70-130			
cis-1,3-Dichloropropene	9.32	0.50	µg/L	10.0		93.2		70-130			
trans-1,3-Dichloropropene	9.49	0.50	µg/L	10.0		94.9		70-130			
Ethylbenzene	8.70	0.50	µg/L	10.0		87.0		70-130			
Hexachlorobutadiene	8.92	0.60	µg/L	10.0		89.2		70-130			
2-Hexanone (MBK)	98.2	5.0	µg/L	100		98.2		70-130			
Isopropylbenzene (Cumene)	7.79	2.0	µg/L	10.0		77.9		70-130			
p-Isopropyltoluene (p-Cymene)	8.10	2.0	µg/L	10.0		81.0		70-130			
Methyl tert-Butyl Ether (MTBE)	8.71	0.50	µg/L	10.0		87.1		70-130			
Methylene Chloride	9.24	5.0	µg/L	10.0		92.4		70-130			
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113		70-130			
Naphthalene	6.94	2.0	µg/L	10.0		**69.4**	*	70-130			L-03
n-Propylbenzene	8.96	1.0	µg/L	10.0		89.6		70-130			
Styrene	8.75	1.0	µg/L	10.0		87.5		70-130			
1,1,1,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107		70-130			
1,1,2,2-Tetrachloroethane	11.8	0.50	µg/L	10.0		118		70-130			
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100		70-130			
Tetrahydrofuran	11.0	10	µg/L	10.0		110		70-130			
Toluene	10.1	1.0	µg/L	10.0		101		70-130			
1,2,3-Trichlorobenzene	8.31	0.50	µg/L	10.0		83.1		70-130			
1,2,4-Trichlorobenzene	7.83	0.50	µg/L	10.0		78.3		70-130			
1,1,1-Trichloroethane	8.70	0.50	µg/L	10.0		87.0		70-130			
1,1,2-Trichloroethane	11.2	0.50	µg/L	10.0		112		70-130			
Trichloroethylene	9.56	1.0	µg/L	10.0		95.6		70-130			
Trichlorofluoromethane (Freon 11)	8.06	2.0	µg/L	10.0		80.6		70-130			
1,2,3-Trichloropropane	10.8	0.50	µg/L	10.0		108		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.37	0.50	µg/L	10.0		83.7		70-130			
1,2,4-Trimethylbenzene	8.38	1.0	µg/L	10.0		83.8		70-130			
1,3,5-Trimethylbenzene	8.37	2.0	µg/L	10.0		83.7		70-130			
Vinyl Chloride	8.78	1.0	µg/L	10.0		87.8		70-130			
m+p Xylene	19.0	2.0	µg/L	20.0		94.8		70-130			
o-Xylene	8.41	1.0	µg/L	10.0		84.1		70-130			
Xylenes (total)	27.4	3.0	µg/L					0-200			
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.0		93.8		70-130			
Surrogate: Toluene-d8	*27.1*		µg/L	25.0		108		70-130			
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.8		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195379 - SW-846 5035										
Blank (B195379-BLK1)				Prepared & Analyzed: 01/23/18						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195379 - SW-846 5035											
Blank (B195379-BLK1)				Prepared & Analyzed: 01/23/18							
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								L-03
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0496*		mg/Kg wet	0.0500		99.2		70-130			
Surrogate: Toluene-d8	*0.0515*		mg/Kg wet	0.0500		103		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0488*		mg/Kg wet	0.0500		97.7		70-130			
LCS (B195379-BS1)				Prepared & Analyzed: 01/23/18							
Acetone	0.268	0.10	mg/Kg wet	0.200		**134**	*	70-130			L-01, V-20
Acrylonitrile	0.0201	0.0060	mg/Kg wet	0.0200		100		70-130			
Benzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130			
Bromobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.3		70-130			
Bromodichloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130			
Bromoform	0.0198	0.0020	mg/Kg wet	0.0200		98.8		70-130			
Bromomethane	0.0233	0.010	mg/Kg wet	0.0200		116		70-130			V-34
2-Butanone (MEK)	0.226	0.040	mg/Kg wet	0.200		113		70-130			
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1		70-130			
sec-Butylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6		70-130			
tert-Butylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6		70-130			
Carbon Disulfide	0.194	0.0060	mg/Kg wet	0.200		96.9		70-130			
Carbon Tetrachloride	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130			
Chlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130			
Chlorodibromomethane	0.0233	0.0010	mg/Kg wet	0.0200		117		70-130			
Chloroethane	0.0188	0.020	mg/Kg wet	0.0200		93.8		70-130			
Chloroform	0.0225	0.0040	mg/Kg wet	0.0200		112		70-130			
Chloromethane	0.0161	0.010	mg/Kg wet	0.0200		80.7		70-130			
2-Chlorotoluene	0.0173	0.0020	mg/Kg wet	0.0200		86.7		70-130			
4-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		92.2		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130			
1,2-Dibromoethane (EDB)	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130			
Dibromomethane	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130			
1,2-Dichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130			
1,3-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130			
1,4-Dichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6		70-130			
trans-1,4-Dichloro-2-butene	0.0150	0.0040	mg/Kg wet	0.0200		74.8		70-130			
Dichlorodifluoromethane (Freon 12)	0.0220	0.020	mg/Kg wet	0.0200		110		70-130			
1,1-Dichloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130			
1,2-Dichloroethane	0.0246	0.0020	mg/Kg wet	0.0200		123		70-130			
1,1-Dichloroethylene	0.0214	0.0040	mg/Kg wet	0.0200		107		70-130			

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195379 - SW-846 5035											
LCS (B195379-BS1)				Prepared & Analyzed: 01/23/18							
cis-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130			
trans-1,2-Dichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130			
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130			
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130			
2,2-Dichloropropane	0.0140	0.0020	mg/Kg wet	0.0200		70.0		70-130			
1,1-Dichloropropene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130			
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100		70-130			
trans-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		99.8		70-130			
Ethylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		87.9		70-130			
Hexachlorobutadiene	0.0182	0.0020	mg/Kg wet	0.0200		91.0		70-130			
2-Hexanone (MBK)	0.235	0.020	mg/Kg wet	0.200		118		70-130			
Isopropylbenzene (Cumene)	0.0177	0.0020	mg/Kg wet	0.0200		88.4		70-130			
p-Isopropyltoluene (p-Cymene)	0.0174	0.0020	mg/Kg wet	0.0200		87.0		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.2		70-130			
Methylene Chloride	0.0219	0.020	mg/Kg wet	0.0200		109		70-130			
4-Methyl-2-pentanone (MIBK)	0.229	0.020	mg/Kg wet	0.200		114		70-130			
Naphthalene	0.0141	0.0040	mg/Kg wet	0.0200		70.6		70-130			
n-Propylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130			
Styrene	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130			
1,1,1,2-Tetrachloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130			
1,1,2,2-Tetrachloroethane	0.0195	0.0010	mg/Kg wet	0.0200		97.5		70-130			
Tetrachloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130			
Tetrahydrofuran	0.0228	0.010	mg/Kg wet	0.0200		114		70-130			
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130			
1,2,3-Trichlorobenzene	0.0135	0.0020	mg/Kg wet	0.0200		**67.5**	*	70-130			L-03
1,2,4-Trichlorobenzene	0.0153	0.0020	mg/Kg wet	0.0200		76.6		70-130			
1,1,1-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130			
1,1,2-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130			
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130			
Trichlorofluoromethane (Freon 11)	0.0217	0.010	mg/Kg wet	0.0200		108		70-130			
1,2,3-Trichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0218	0.010	mg/Kg wet	0.0200		109		70-130			
1,2,4-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0		70-130			
1,3,5-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6		70-130			
Vinyl Chloride	0.0205	0.010	mg/Kg wet	0.0200		102		70-130			
m+p Xylene	0.0364	0.0040	mg/Kg wet	0.0400		91.1		70-130			
o-Xylene	0.0182	0.0020	mg/Kg wet	0.0200		91.2		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0562*		mg/Kg wet	0.0500		112		70-130			
Surrogate: Toluene-d8	*0.0520*		mg/Kg wet	0.0500		104		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0508*		mg/Kg wet	0.0500		102		70-130			
Matrix Spike (B195379-MS1)		**Source: 18A0655-32**		Prepared & Analyzed: 01/23/18							
Acetone	0.136	0.066	mg/Kg dry	0.132	ND	103		70-130			L-01, V-20
Acrylonitrile	0.0121	0.0040	mg/Kg dry	0.0132	ND	91.7		70-130			
Benzene	0.0128	0.0013	mg/Kg dry	0.0132	ND	96.8		70-130			
Bromobenzene	0.0117	0.0013	mg/Kg dry	0.0132	ND	88.5		70-130			
Bromodichloromethane	0.0141	0.0013	mg/Kg dry	0.0132	ND	107		70-130			
Bromoform	0.0120	0.0013	mg/Kg dry	0.0132	ND	91.2		70-130			
Bromomethane	0.0116	0.0066	mg/Kg dry	0.0132	ND	87.6		70-130			V-34
2-Butanone (MEK)	0.107	0.026	mg/Kg dry	0.132	ND	81.4		70-130			
n-Butylbenzene	0.0124	0.0013	mg/Kg dry	0.0132	ND	94.0		70-130			
sec-Butylbenzene	0.0114	0.0013	mg/Kg dry	0.0132	ND	86.7		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195379 - SW-846 5035											
Matrix Spike (B195379-MS1)		**Source: 18A0655-32**		Prepared & Analyzed: 01/23/18							
tert-Butylbenzene	0.0109	0.0013	mg/Kg dry	0.0132	ND	82.4		70-130			
Carbon Disulfide	0.0134	0.0040	mg/Kg dry	0.0132	ND	102		70-130			
Carbon Tetrachloride	0.0132	0.0013	mg/Kg dry	0.0132	ND	99.9		70-130			
Chlorobenzene	0.0119	0.0013	mg/Kg dry	0.0132	ND	90.1		70-130			
Chlorodibromomethane	0.0138	0.00066	mg/Kg dry	0.0132	ND	105		70-130			
Chloroethane	0.0123	0.013	mg/Kg dry	0.0132	ND	93.2		70-130			
Chloroform	0.0144	0.0026	mg/Kg dry	0.0132	ND	109		70-130			
Chloromethane	0.0124	0.0066	mg/Kg dry	0.0132	ND	93.6		70-130			
2-Chlorotoluene	0.0119	0.0013	mg/Kg dry	0.0132	ND	90.5		70-130			
4-Chlorotoluene	0.0122	0.0013	mg/Kg dry	0.0132	ND	92.3		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0100	0.0013	mg/Kg dry	0.0132	ND	76.1		70-130			R-06
1,2-Dibromoethane (EDB)	0.0128	0.00066	mg/Kg dry	0.0132	ND	96.7		70-130			
Dibromomethane	0.0125	0.0013	mg/Kg dry	0.0132	ND	95.0		70-130			
1,2-Dichlorobenzene	0.0112	0.0013	mg/Kg dry	0.0132	ND	85.2		70-130			
1,3-Dichlorobenzene	0.0119	0.0013	mg/Kg dry	0.0132	ND	90.0		70-130			
1,4-Dichlorobenzene	0.0113	0.0013	mg/Kg dry	0.0132	ND	85.6		70-130			
trans-1,4-Dichloro-2-butene	0.00846	0.0026	mg/Kg dry	0.0132	ND	**64.1**	*	70-130			MS-24
Dichlorodifluoromethane (Freon 12)	0.00993	0.013	mg/Kg dry	0.0132	ND	75.2		70-130			
1,1-Dichloroethane	0.0147	0.0013	mg/Kg dry	0.0132	ND	111		70-130			
1,2-Dichloroethane	0.0152	0.0013	mg/Kg dry	0.0132	ND	115		70-130			
1,1-Dichloroethylene	0.0142	0.0026	mg/Kg dry	0.0132	ND	107		70-130			
cis-1,2-Dichloroethylene	0.0138	0.0013	mg/Kg dry	0.0132	ND	104		70-130			
trans-1,2-Dichloroethylene	0.0145	0.0013	mg/Kg dry	0.0132	ND	110		70-130			
1,2-Dichloropropane	0.0134	0.0013	mg/Kg dry	0.0132	ND	102		70-130			
1,3-Dichloropropane	0.0123	0.00066	mg/Kg dry	0.0132	ND	93.2		70-130			
2,2-Dichloropropane	0.00981	0.0013	mg/Kg dry	0.0132	ND	74.3		70-130			
1,1-Dichloropropene	0.0134	0.0013	mg/Kg dry	0.0132	ND	101		70-130			
cis-1,3-Dichloropropene	0.0117	0.00066	mg/Kg dry	0.0132	ND	88.9		70-130			
trans-1,3-Dichloropropene	0.0111	0.00066	mg/Kg dry	0.0132	ND	84.1		70-130			
Ethylbenzene	0.0117	0.0013	mg/Kg dry	0.0132	ND	89.0		70-130			
Hexachlorobutadiene	0.0123	0.0013	mg/Kg dry	0.0132	ND	93.0		70-130			
2-Hexanone (MBK)	0.119	0.013	mg/Kg dry	0.132	ND	90.1		70-130			
Isopropylbenzene (Cumene)	0.0125	0.0013	mg/Kg dry	0.0132	ND	95.0		70-130			
p-Isopropyltoluene (p-Cymene)	0.0117	0.0013	mg/Kg dry	0.0132	ND	89.0		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0114	0.0026	mg/Kg dry	0.0132	ND	86.4		70-130			
Methylene Chloride	0.0149	0.013	mg/Kg dry	0.0132	ND	113		70-130			
4-Methyl-2-pentanone (MIBK)	0.115	0.013	mg/Kg dry	0.132	ND	87.0		70-130			
Naphthalene	0.00857	0.0026	mg/Kg dry	0.0132	ND	**64.9**	*	70-130			MS-07A
n-Propylbenzene	0.0120	0.0013	mg/Kg dry	0.0132	ND	90.7		70-130			
Styrene	0.0117	0.0013	mg/Kg dry	0.0132	ND	88.7		70-130			
1,1,1,2-Tetrachloroethane	0.0120	0.0013	mg/Kg dry	0.0132	ND	91.1		70-130			
1,1,2,2-Tetrachloroethane	0.0110	0.00066	mg/Kg dry	0.0132	ND	83.3		70-130			
Tetrachloroethylene	0.0134	0.0013	mg/Kg dry	0.0132	ND	102		70-130			
Tetrahydrofuran	0.0114	0.0066	mg/Kg dry	0.0132	ND	86.5		70-130			
Toluene	0.0127	0.0013	mg/Kg dry	0.0132	ND	96.1		70-130			
1,2,3-Trichlorobenzene	0.00840	0.0013	mg/Kg dry	0.0132	ND	**63.6**	*	70-130			L-03, MS-22
1,2,4-Trichlorobenzene	0.00925	0.0013	mg/Kg dry	0.0132	ND	70.1		70-130			
1,1,1-Trichloroethane	0.0148	0.0013	mg/Kg dry	0.0132	ND	112		70-130			
1,1,2-Trichloroethane	0.0126	0.0013	mg/Kg dry	0.0132	ND	95.6		70-130			
Trichloroethylene	0.0129	0.0013	mg/Kg dry	0.0132	ND	97.5		70-130			
Trichlorofluoromethane (Freon 11)	0.0145	0.0066	mg/Kg dry	0.0132	ND	110		70-130			
1,2,3-Trichloropropane	0.0117	0.0013	mg/Kg dry	0.0132	ND	89.0		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B195379 - SW-846 5035											
Matrix Spike (B195379-MS1)	**Source: 18A0655-32**			Prepared & Analyzed: 01/23/18							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0135	0.0066	mg/Kg dry	0.0132	ND	102	70-130				
1,2,4-Trimethylbenzene	0.0112	0.0013	mg/Kg dry	0.0132	ND	85.1	70-130				
1,3,5-Trimethylbenzene	0.0122	0.0013	mg/Kg dry	0.0132	ND	92.1	70-130				
Vinyl Chloride	0.0118	0.0066	mg/Kg dry	0.0132	ND	89.3	70-130				
m+p Xylene	0.0238	0.0026	mg/Kg dry	0.0264	ND	90.0	70-130				
o-Xylene	0.0118	0.0013	mg/Kg dry	0.0132	ND	89.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0353*		mg/Kg dry	0.0330		107	70-130				
Surrogate: Toluene-d8	*0.0336*		mg/Kg dry	0.0330		102	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0340*		mg/Kg dry	0.0330		103	70-130				
Matrix Spike Dup (B195379-MSD1)	**Source: 18A0655-32**			Prepared & Analyzed: 01/23/18							
Acetone	0.166	0.075	mg/Kg dry	0.150	ND	111	70-130	20.0		30	L-01, V-20
Acrylonitrile	0.0138	0.0045	mg/Kg dry	0.0150	ND	92.0	70-130	13.3		30	
Benzene	0.0151	0.0015	mg/Kg dry	0.0150	ND	100	70-130	16.8		30	
Bromobenzene	0.0131	0.0015	mg/Kg dry	0.0150	ND	86.9	70-130	11.2		30	
Bromodichloromethane	0.0172	0.0015	mg/Kg dry	0.0150	ND	114	70-130	20.1		30	
Bromoform	0.0154	0.0015	mg/Kg dry	0.0150	ND	103	70-130	24.7		30	
Bromomethane	0.0134	0.0075	mg/Kg dry	0.0150	ND	89.1	70-130	14.7		30	V-34
2-Butanone (MEK)	0.142	0.030	mg/Kg dry	0.150	ND	94.6	70-130	27.9		30	
n-Butylbenzene	0.0147	0.0015	mg/Kg dry	0.0150	ND	97.8	70-130	17.0		30	
sec-Butylbenzene	0.0134	0.0015	mg/Kg dry	0.0150	ND	89.1	70-130	15.7		30	
tert-Butylbenzene	0.0131	0.0015	mg/Kg dry	0.0150	ND	87.1	70-130	18.5		30	
Carbon Disulfide	0.0157	0.0045	mg/Kg dry	0.0150	ND	104	70-130	15.7		30	
Carbon Tetrachloride	0.0154	0.0015	mg/Kg dry	0.0150	ND	103	70-130	15.8		30	
Chlorobenzene	0.0132	0.0015	mg/Kg dry	0.0150	ND	87.6	70-130	10.2		30	
Chlorodibromomethane	0.0173	0.00075	mg/Kg dry	0.0150	ND	115	70-130	22.5		30	
Chloroethane	0.0129	0.015	mg/Kg dry	0.0150	ND	85.6	70-130	4.53		30	
Chloroform	0.0175	0.0030	mg/Kg dry	0.0150	ND	116	70-130	19.5		30	
Chloromethane	0.0143	0.0075	mg/Kg dry	0.0150	ND	95.3	70-130	14.8		30	
2-Chlorotoluene	0.0136	0.0015	mg/Kg dry	0.0150	ND	90.2	70-130	12.7		30	
4-Chlorotoluene	0.0137	0.0015	mg/Kg dry	0.0150	ND	90.8	70-130	11.4		30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0145	0.0015	mg/Kg dry	0.0150	ND	96.7	70-130	**36.6**	*	30	R-06
1,2-Dibromoethane (EDB)	0.0155	0.00075	mg/Kg dry	0.0150	ND	103	70-130	19.5		30	
Dibromomethane	0.0161	0.0015	mg/Kg dry	0.0150	ND	107	70-130	24.9		30	
1,2-Dichlorobenzene	0.0138	0.0015	mg/Kg dry	0.0150	ND	91.6	70-130	20.2		30	
1,3-Dichlorobenzene	0.0140	0.0015	mg/Kg dry	0.0150	ND	93.2	70-130	16.5		30	
1,4-Dichlorobenzene	0.0131	0.0015	mg/Kg dry	0.0150	ND	87.1	70-130	14.8		30	
trans-1,4-Dichloro-2-butene	0.0109	0.0030	mg/Kg dry	0.0150	ND	72.7	70-130	25.5		30	
Dichlorodifluoromethane (Freon 12)	0.0116	0.015	mg/Kg dry	0.0150	ND	76.9	70-130	15.2		30	
1,1-Dichloroethane	0.0171	0.0015	mg/Kg dry	0.0150	ND	113	70-130	14.9		30	
1,2-Dichloroethane	0.0176	0.0015	mg/Kg dry	0.0150	ND	117	70-130	14.5		30	
1,1-Dichloroethylene	0.0170	0.0030	mg/Kg dry	0.0150	ND	113	70-130	18.0		30	
cis-1,2-Dichloroethylene	0.0164	0.0015	mg/Kg dry	0.0150	ND	109	70-130	17.3		30	
trans-1,2-Dichloroethylene	0.0168	0.0015	mg/Kg dry	0.0150	ND	111	70-130	14.3		30	
1,2-Dichloropropane	0.0163	0.0015	mg/Kg dry	0.0150	ND	108	70-130	19.5		30	
1,3-Dichloropropane	0.0148	0.00075	mg/Kg dry	0.0150	ND	98.5	70-130	18.5		30	
2,2-Dichloropropane	0.0113	0.0015	mg/Kg dry	0.0150	ND	75.4	70-130	14.5		30	
1,1-Dichloropropene	0.0159	0.0015	mg/Kg dry	0.0150	ND	106	70-130	17.2		30	
cis-1,3-Dichloropropene	0.0135	0.00075	mg/Kg dry	0.0150	ND	90.1	70-130	14.4		30	
trans-1,3-Dichloropropene	0.0134	0.00075	mg/Kg dry	0.0150	ND	89.1	70-130	18.8		30	
Ethylbenzene	0.0137	0.0015	mg/Kg dry	0.0150	ND	91.4	70-130	15.7		30	
Hexachlorobutadiene	0.0140	0.0015	mg/Kg dry	0.0150	ND	93.3	70-130	13.3		30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195379 - SW-846 5035											
Matrix Spike Dup (B195379-MSD1)	**Source: 18A0655-32**			Prepared & Analyzed: 01/23/18							
2-Hexanone (MBK)	0.159	0.015	mg/Kg dry	0.150	ND	106		70-130	29.0	30	
Isopropylbenzene (Cumene)	0.0143	0.0015	mg/Kg dry	0.0150	ND	95.1		70-130	13.1	30	
p-Isopropyltoluene (p-Cymene)	0.0137	0.0015	mg/Kg dry	0.0150	ND	91.1		70-130	15.3	30	
Methyl tert-Butyl Ether (MTBE)	0.0141	0.0030	mg/Kg dry	0.0150	ND	93.5		70-130	20.9	30	
Methylene Chloride	0.0178	0.015	mg/Kg dry	0.0150	ND	118		70-130	17.4	30	
4-Methyl-2-pentanone (MIBK)	0.149	0.015	mg/Kg dry	0.150	ND	99.2		70-130	26.0	30	
Naphthalene	0.00829	0.0030	mg/Kg dry	0.0150	ND	**55.1**	*	70-130	3.33	30	MS-07A
n-Propylbenzene	0.0139	0.0015	mg/Kg dry	0.0150	ND	92.3		70-130	14.8	30	
Styrene	0.0138	0.0015	mg/Kg dry	0.0150	ND	91.9		70-130	16.5	30	
1,1,1,2-Tetrachloroethane	0.0140	0.0015	mg/Kg dry	0.0150	ND	92.8		70-130	14.9	30	
1,1,2,2-Tetrachloroethane	0.0143	0.00075	mg/Kg dry	0.0150	ND	95.1		70-130	26.1	30	
Tetrachloroethylene	0.0159	0.0015	mg/Kg dry	0.0150	ND	106		70-130	17.2	30	
Tetrahydrofuran	0.0145	0.0075	mg/Kg dry	0.0150	ND	96.7		70-130	24.1	30	
Toluene	0.0152	0.0015	mg/Kg dry	0.0150	ND	101		70-130	17.9	30	
1,2,3-Trichlorobenzene	0.0106	0.0015	mg/Kg dry	0.0150	ND	70.7		70-130	23.5	30	L-03
1,2,4-Trichlorobenzene	0.0113	0.0015	mg/Kg dry	0.0150	ND	75.0		70-130	19.7	30	
1,1,1-Trichloroethane	0.0172	0.0015	mg/Kg dry	0.0150	ND	114		70-130	15.0	30	
1,1,2-Trichloroethane	0.0152	0.0015	mg/Kg dry	0.0150	ND	101		70-130	18.5	30	
Trichloroethylene	0.0157	0.0015	mg/Kg dry	0.0150	ND	104		70-130	19.5	30	
Trichlorofluoromethane (Freon 11)	0.0169	0.0075	mg/Kg dry	0.0150	ND	113		70-130	15.5	30	
1,2,3-Trichloropropane	0.0128	0.0015	mg/Kg dry	0.0150	ND	85.0		70-130	8.44	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0158	0.0075	mg/Kg dry	0.0150	ND	105		70-130	15.3	30	
1,2,4-Trimethylbenzene	0.0129	0.0015	mg/Kg dry	0.0150	ND	85.9		70-130	14.0	30	
1,3,5-Trimethylbenzene	0.0141	0.0015	mg/Kg dry	0.0150	ND	94.0		70-130	15.1	30	
Vinyl Chloride	0.0152	0.0075	mg/Kg dry	0.0150	ND	101		70-130	25.3	30	
m+p Xylene	0.0277	0.0030	mg/Kg dry	0.0301	ND	92.2		70-130	15.4	30	
o-Xylene	0.0136	0.0015	mg/Kg dry	0.0150	ND	90.2		70-130	14.1	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		mg/Kg dry	0.0376		110		70-130			
Surrogate: Toluene-d8	*0.0385*		mg/Kg dry	0.0376		102		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0382*		mg/Kg dry	0.0376		102		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195346 - SW-846 3546										
Blank (B195346-BLK1)				Prepared: 01/23/18 Analyzed: 01/25/18						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04, V-34
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-34
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195346 - SW-846 3546											
Blank (B195346-BLK1)				Prepared: 01/23/18 Analyzed: 01/25/18							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*3.75*		mg/Kg wet	6.67		56.3	30-130				
Surrogate: Phenol-d6	*3.85*		mg/Kg wet	6.67		57.7	30-130				
Surrogate: Nitrobenzene-d5	*2.01*		mg/Kg wet	3.33		60.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/Kg wet	3.33		60.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.34*		mg/Kg wet	6.67		65.1	30-130				
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130				
LCS (B195346-BS1)				Prepared: 01/23/18 Analyzed: 01/25/18							
Acenaphthene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140				
Acenaphthylene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140				
Aniline	0.689	0.34	mg/Kg wet	1.67		41.3	40-140				†
Anthracene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140				
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140				
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140				
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140				
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140				
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140				
Bis(2-chloroethoxy)methane	1.15	0.34	mg/Kg wet	1.67		69.1	40-140				
Bis(2-chloroethyl)ether	1.01	0.34	mg/Kg wet	1.67		60.8	40-140				
Bis(2-chloroisopropyl)ether	1.19	0.34	mg/Kg wet	1.67		71.7	40-140				
Bis(2-Ethylhexyl)phthalate	1.20	0.34	mg/Kg wet	1.67		72.2	40-140				
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.6	40-140				
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.3	40-140				
Carbazole	1.03	0.17	mg/Kg wet	1.67		62.0	40-140				
4-Chloroaniline	0.628	0.66	mg/Kg wet	1.67		**37.7**	40-140	*		L-04, V-34	†
4-Chloro-3-methylphenol	1.10	0.66	mg/Kg wet	1.67		66.2	30-130				
2-Chloronaphthalene	0.959	0.34	mg/Kg wet	1.67		57.6	40-140				
2-Chlorophenol	0.968	0.34	mg/Kg wet	1.67		58.1	30-130				
4-Chlorophenylphenylether	1.04	0.34	mg/Kg wet	1.67		62.6	40-140				
Chrysene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140				
Dibenz(a,h)anthracene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140				
Dibenzofuran	1.05	0.34	mg/Kg wet	1.67		63.2	40-140				
Di-n-butylphthalate	1.11	0.34	mg/Kg wet	1.67		66.4	40-140				
3,3-Dichlorobenzidine	0.768	0.17	mg/Kg wet	1.67		46.1	40-140			V-34	†
2,4-Dichlorophenol	0.979	0.34	mg/Kg wet	1.67		58.8	30-130				
Diethylphthalate	1.07	0.34	mg/Kg wet	1.67		63.9	40-140				
2,4-Dimethylphenol	0.962	0.34	mg/Kg wet	1.67		57.7	30-130				
Dimethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.9	40-140				
4,6-Dinitro-2-methylphenol	0.997	0.34	mg/Kg wet	1.67		59.8	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195346 - SW-846 3546										
LCS (B195346-BS1)				Prepared: 01/23/18 Analyzed: 01/25/18						
2,4-Dinitrophenol	0.774	0.66	mg/Kg wet	1.67		46.4	30-130			V-20
2,4-Dinitrotoluene	1.14	0.34	mg/Kg wet	1.67		68.4	40-140			
2,6-Dinitrotoluene	1.17	0.34	mg/Kg wet	1.67		70.2	40-140			
Di-n-octylphthalate	1.19	0.34	mg/Kg wet	1.67		71.3	40-140			
Fluoranthene	0.985	0.17	mg/Kg wet	1.67		59.1	40-140			
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140			
Hexachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.7	40-140			
Hexachlorobutadiene	0.993	0.34	mg/Kg wet	1.67		59.6	40-140			
Hexachlorocyclopentadiene	1.01	0.34	mg/Kg wet	1.67		60.5	30-140			
Hexachloroethane	0.936	0.34	mg/Kg wet	1.67		56.2	40-140			
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140			
Isophorone	1.09	0.34	mg/Kg wet	1.67		65.4	40-140			
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140			
2-Methylphenol	0.988	0.34	mg/Kg wet	1.67		59.3	30-130			
3/4-Methylphenol	1.00	0.34	mg/Kg wet	1.67		60.0	30-130			
Naphthalene	0.986	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.5	40-140			
3-Nitroaniline	0.952	0.34	mg/Kg wet	1.67		57.1	40-140			†
4-Nitroaniline	0.982	0.34	mg/Kg wet	1.67		58.9	40-140			
Nitrobenzene	0.988	0.34	mg/Kg wet	1.67		59.3	40-140			
2-Nitrophenol	1.08	0.34	mg/Kg wet	1.67		64.7	30-130			
4-Nitrophenol	1.02	0.66	mg/Kg wet	1.67		61.4	10-130			
N-Nitrosodiphenylamine	1.33	0.34	mg/Kg wet	1.67		79.7	40-140			
N-Nitrosodi-n-propylamine	1.02	0.34	mg/Kg wet	1.67		61.0	40-140			
Pentachloronitrobenzene	1.12	0.34	mg/Kg wet	1.67		67.0	40-140			
Pentachlorophenol	0.997	0.34	mg/Kg wet	1.67		59.8	30-130			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.7	40-140			
Phenol	0.941	0.34	mg/Kg wet	1.67		56.4	20-130			
Pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Pyridine	0.666	0.34	mg/Kg wet	1.67		40.0	10-140			†
1,2,4,5-Tetrachlorobenzene	0.972	0.34	mg/Kg wet	1.67		58.3	40-140			
1,2,4-Trichlorobenzene	0.989	0.34	mg/Kg wet	1.67		59.4	40-140			
2,4,5-Trichlorophenol	1.03	0.34	mg/Kg wet	1.67		62.0	30-130			
2,4,6-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.9	30-130			
Surrogate: 2-Fluorophenol	*4.07*		mg/Kg wet	6.67		61.1	30-130			
Surrogate: Phenol-d6	*4.04*		mg/Kg wet	6.67		60.6	30-130			
Surrogate: Nitrobenzene-d5	*2.13*		mg/Kg wet	3.33		64.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.16*		mg/Kg wet	3.33		64.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.43*		mg/Kg wet	6.67		66.5	30-130			
Surrogate: p-Terphenyl-d14	*2.54*		mg/Kg wet	3.33		76.2	30-130			
LCS Dup (B195346-BSD1)				Prepared: 01/23/18 Analyzed: 01/25/18						
Acenaphthene	0.954	0.17	mg/Kg wet	1.67		57.2	40-140	8.12	30	
Acenaphthylene	0.933	0.17	mg/Kg wet	1.67		56.0	40-140	6.77	30	
Aniline	0.668	0.34	mg/Kg wet	1.67		40.1	40-140	3.05	50	† ‡
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	8.69	30	
Benzo(a)anthracene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	7.22	30	
Benzo(a)pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	9.58	30	
Benzo(b)fluoranthene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140	8.81	30	
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	9.12	30	
Benzo(k)fluoranthene	0.979	0.17	mg/Kg wet	1.67		58.8	40-140	8.01	30	
Bis(2-chloroethoxy)methane	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	7.57	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B195346 - SW-846 3546												
LCS Dup (B195346-BSD1)				Prepared: 01/23/18 Analyzed: 01/25/18								
Bis(2-chloroethyl)ether	0.947	0.34	mg/Kg wet	1.67		56.8		40-140	6.87	30		
Bis(2-chloroisopropyl)ether	1.13	0.34	mg/Kg wet	1.67		67.5		40-140	5.95	30		
Bis(2-Ethylhexyl)phthalate	1.14	0.34	mg/Kg wet	1.67		68.7		40-140	5.00	30		
4-Bromophenylphenylether	1.06	0.34	mg/Kg wet	1.67		63.7		40-140	7.50	30		
Butylbenzylphthalate	1.12	0.34	mg/Kg wet	1.67		67.1		40-140	7.46	30		
Carbazole	0.938	0.17	mg/Kg wet	1.67		56.3		40-140	9.64	30		
4-Chloroaniline	0.584	0.66	mg/Kg wet	1.67		**35.0**	*	40-140	7.31	30	L-04, V-34	†
4-Chloro-3-methylphenol	1.00	0.66	mg/Kg wet	1.67		60.3		30-130	9.36	30		
2-Chloronaphthalene	0.816	0.34	mg/Kg wet	1.67		49.0		40-140	16.1	30		
2-Chlorophenol	0.892	0.34	mg/Kg wet	1.67		53.5		30-130	8.17	30		
4-Chlorophenylphenylether	0.997	0.34	mg/Kg wet	1.67		59.8		40-140	4.44	30		
Chrysene	0.995	0.17	mg/Kg wet	1.67		59.7		40-140	8.20	30		
Dibenz(a,h)anthracene	1.04	0.17	mg/Kg wet	1.67		62.7		40-140	11.4	30		
Dibenzofuran	0.965	0.34	mg/Kg wet	1.67		57.9		40-140	8.72	30		
Di-n-butylphthalate	1.02	0.34	mg/Kg wet	1.67		61.5		40-140	7.72	30		
3,3-Dichlorobenzidine	0.727	0.17	mg/Kg wet	1.67		43.6		40-140	5.40	30	V-34	† ‡
2,4-Dichlorophenol	0.921	0.34	mg/Kg wet	1.67		55.2		30-130	6.18	30		
Diethylphthalate	1.00	0.34	mg/Kg wet	1.67		60.0		40-140	6.39	30		
2,4-Dimethylphenol	0.874	0.34	mg/Kg wet	1.67		52.5		30-130	9.51	30		
Dimethylphthalate	0.996	0.34	mg/Kg wet	1.67		59.8		40-140	8.18	50		
4,6-Dinitro-2-methylphenol	0.916	0.34	mg/Kg wet	1.67		55.0		30-130	8.47	50		
2,4-Dinitrophenol	0.643	0.66	mg/Kg wet	1.67		38.6		30-130	18.4	50	V-20	
2,4-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.67		63.4		40-140	7.56	30		
2,6-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.67		63.8		40-140	9.58	30		
Di-n-octylphthalate	1.10	0.34	mg/Kg wet	1.67		65.8		40-140	8.05	30		
Fluoranthene	0.879	0.17	mg/Kg wet	1.67		52.8		40-140	11.3	30		
Fluorene	0.958	0.17	mg/Kg wet	1.67		57.5		40-140	5.28	30		
Hexachlorobenzene	1.00	0.34	mg/Kg wet	1.67		60.1		40-140	8.84	30		
Hexachlorobutadiene	0.911	0.34	mg/Kg wet	1.67		54.7		40-140	8.58	30		
Hexachlorocyclopentadiene	0.933	0.34	mg/Kg wet	1.67		56.0		30-140	7.79	50		
Hexachloroethane	0.884	0.34	mg/Kg wet	1.67		53.1		40-140	5.71	50		
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6		40-140	10.9	30		
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6		40-140	10.9	50		
Isophorone	1.01	0.34	mg/Kg wet	1.67		60.7		40-140	7.42	30		
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.4		40-140	9.01	30		
2-Methylphenol	0.927	0.34	mg/Kg wet	1.67		55.6		30-130	6.41	30		
3/4-Methylphenol	0.939	0.34	mg/Kg wet	1.67		56.3		30-130	6.36	30		
Naphthalene	0.905	0.17	mg/Kg wet	1.67		54.3		40-140	8.50	30		
2-Nitroaniline	1.24	0.34	mg/Kg wet	1.67		74.5		40-140	7.85	30		
3-Nitroaniline	0.867	0.34	mg/Kg wet	1.67		52.0		40-140	9.35	30		†
4-Nitroaniline	0.956	0.34	mg/Kg wet	1.67		57.4		40-140	2.68	30		
Nitrobenzene	0.918	0.34	mg/Kg wet	1.67		55.1		40-140	7.38	30		
2-Nitrophenol	0.996	0.34	mg/Kg wet	1.67		59.8		30-130	7.91	30		
4-Nitrophenol	0.917	0.66	mg/Kg wet	1.67		55.0		10-130	11.0	50		‡
N-Nitrosodiphenylamine	1.23	0.34	mg/Kg wet	1.67		73.9		40-140	7.60	30		
N-Nitrosodi-n-propylamine	0.966	0.34	mg/Kg wet	1.67		57.9		40-140	5.15	30		
Pentachloronitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.7		40-140	8.17	30		
Pentachlorophenol	0.899	0.34	mg/Kg wet	1.67		53.9		30-130	10.4	50		
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.5		40-140	8.18	30		
Phenol	0.872	0.34	mg/Kg wet	1.67		52.3		20-130	7.54	30		
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.7		40-140	8.63	30		
Pyridine	0.609	0.34	mg/Kg wet	1.67		36.5		10-140	9.05	50		†

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195346 - SW-846 3546											
LCS Dup (B195346-BSD1)				Prepared: 01/23/18 Analyzed: 01/25/18							
1,2,4,5-Tetrachlorobenzene	0.893	0.34	mg/Kg wet	1.67		53.6		40-140	8.47	30	
1,2,4-Trichlorobenzene	0.896	0.34	mg/Kg wet	1.67		53.8		40-140	9.90	30	
2,4,5-Trichlorophenol	0.950	0.34	mg/Kg wet	1.67		57.0		30-130	8.37	30	
2,4,6-Trichlorophenol	0.972	0.34	mg/Kg wet	1.67		58.3		30-130	9.10	50	
Surrogate: 2-Fluorophenol	*3.68*		mg/Kg wet	6.67		55.3		30-130			
Surrogate: Phenol-d6	*3.77*		mg/Kg wet	6.67		56.5		30-130			
Surrogate: Nitrobenzene-d5	*1.98*		mg/Kg wet	3.33		59.4		30-130			
Surrogate: 2-Fluorobiphenyl	*1.98*		mg/Kg wet	3.33		59.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.23*		mg/Kg wet	6.67		63.5		30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.0		30-130			
Matrix Spike (B195346-MS1)	**Source: 18A0655-01**			Prepared: 01/23/18 Analyzed: 01/25/18							
Acenaphthene	1.10	0.20	mg/Kg dry	1.94	ND	56.6		40-140			
Acenaphthylene	0.889	0.20	mg/Kg dry	1.94	ND	45.9		40-140			
Aniline	0.623	0.39	mg/Kg dry	1.94	ND	**32.2**	*	40-140			MS-23, R-06
Anthracene	1.56	0.20	mg/Kg dry	1.94	ND	80.6		40-140			R-06
Benzo(a)anthracene	2.13	0.20	mg/Kg dry	1.94	ND	110		40-140			R-06
Benzo(a)pyrene	1.93	0.20	mg/Kg dry	1.94	ND	99.8		40-140			R-06
Benzo(b)fluoranthene	2.04	0.20	mg/Kg dry	1.94	ND	105		40-140			R-06
Benzo(g,h,i)perylene	1.53	0.20	mg/Kg dry	1.94	ND	78.9		40-140			
Benzo(k)fluoranthene	1.46	0.20	mg/Kg dry	1.94	ND	75.6		40-140			R-06
Bis(2-chloroethoxy)methane	1.02	0.39	mg/Kg dry	1.94	ND	52.7		40-140			
Bis(2-chloroethyl)ether	0.940	0.39	mg/Kg dry	1.94	ND	48.6		40-140			
Bis(2-chloroisopropyl)ether	0.936	0.39	mg/Kg dry	1.94	ND	48.4		40-140			
Bis(2-Ethylhexyl)phthalate	1.02	0.39	mg/Kg dry	1.94	ND	52.6		40-140			
4-Bromophenylphenylether	1.04	0.39	mg/Kg dry	1.94	ND	53.8		40-140			
Butylbenzylphthalate	1.03	0.39	mg/Kg dry	1.94	ND	53.4		40-140			
Carbazole	1.18	0.20	mg/Kg dry	1.94	ND	61.0		40-140			
4-Chloroaniline	0.655	0.77	mg/Kg dry	1.94	ND	**33.9**	*	40-140			MS-08
4-Chloro-3-methylphenol	0.947	0.77	mg/Kg dry	1.94	ND	49.0		30-130			
2-Chloronaphthalene	0.826	0.39	mg/Kg dry	1.94	ND	42.7		40-140			
2-Chlorophenol	0.857	0.39	mg/Kg dry	1.94	ND	44.3		30-130			
4-Chlorophenylphenylether	0.957	0.39	mg/Kg dry	1.94	ND	49.4		40-140			
Chrysene	1.99	0.20	mg/Kg dry	1.94	ND	103		40-140			R-06
Dibenz(a,h)anthracene	1.11	0.20	mg/Kg dry	1.94	ND	57.5		40-140			
Dibenzofuran	1.08	0.39	mg/Kg dry	1.94	ND	55.6		40-140			
Di-n-butylphthalate	1.07	0.39	mg/Kg dry	1.94	ND	55.2		40-140			
3,3-Dichlorobenzidine	0.729	0.20	mg/Kg dry	1.94	ND	**37.7**	*	40-140			MS-08
2,4-Dichlorophenol	0.930	0.39	mg/Kg dry	1.94	ND	48.1		30-130			
Diethylphthalate	0.975	0.39	mg/Kg dry	1.94	ND	50.4		40-140			
2,4-Dimethylphenol	0.942	0.39	mg/Kg dry	1.94	ND	48.7		30-130			
Dimethylphthalate	0.964	0.39	mg/Kg dry	1.94	ND	49.8		40-140			
4,6-Dinitro-2-methylphenol	0.860	0.39	mg/Kg dry	1.94	ND	44.4		30-130			
2,4-Dinitrophenol	0.785	0.77	mg/Kg dry	1.94	ND	40.6		30-130			
2,4-Dinitrotoluene	0.941	0.39	mg/Kg dry	1.94	ND	48.6		40-140			
2,6-Dinitrotoluene	0.978	0.39	mg/Kg dry	1.94	ND	50.6		40-140			
Di-n-octylphthalate	1.07	0.39	mg/Kg dry	1.94	ND	55.1		40-140			
Fluoranthene	3.64	0.20	mg/Kg dry	1.94	ND	**188**	*	40-140			MS-23
Fluorene	1.16	0.20	mg/Kg dry	1.94	ND	59.9		40-140			
Hexachlorobenzene	0.966	0.39	mg/Kg dry	1.94	ND	49.9		40-140			
Hexachlorobutadiene	0.828	0.39	mg/Kg dry	1.94	ND	42.8		40-140			
Hexachlorocyclopentadiene	0.706	0.39	mg/Kg dry	1.94	ND	**36.5**	*	40-140			MS-22

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195346 - SW-846 3546											
Matrix Spike (B195346-MS1)	**Source: 18A0655-01**			Prepared: 01/23/18	Analyzed: 01/25/18						
Hexachloroethane	0.757	0.39	mg/Kg dry	1.94	ND	**39.1**	*	40-140			MS-22
Indeno(1,2,3-cd)pyrene	1.66	0.20	mg/Kg dry	1.94	ND	85.8		40-140			R-06
Isophorone	0.966	0.39	mg/Kg dry	1.94	ND	49.9		40-140			
2-Methylnaphthalene	0.987	0.20	mg/Kg dry	1.94	ND	51.0		40-140			
2-Methylphenol	0.793	0.39	mg/Kg dry	1.94	ND	41.0		30-130			
3/4-Methylphenol	0.916	0.39	mg/Kg dry	1.94	ND	47.3		30-130			
Naphthalene	0.851	0.20	mg/Kg dry	1.94	ND	44.0		40-140			
2-Nitroaniline	0.968	0.39	mg/Kg dry	1.94	ND	50.0		40-140			
3-Nitroaniline	0.782	0.39	mg/Kg dry	1.94	ND	40.4		40-140			
4-Nitroaniline	0.832	0.39	mg/Kg dry	1.94	ND	43.0		40-140			
Nitrobenzene	0.872	0.39	mg/Kg dry	1.94	ND	45.1		40-140			
2-Nitrophenol	0.874	0.39	mg/Kg dry	1.94	ND	45.2		30-130			
4-Nitrophenol	0.982	0.77	mg/Kg dry	1.94	ND	50.8		30-130			
N-Nitrosodiphenylamine	1.20	0.39	mg/Kg dry	1.94	ND	61.8		40-140			
N-Nitrosodi-n-propylamine	0.896	0.39	mg/Kg dry	1.94	ND	46.3		40-140			
Pentachloronitrobenzene	0.938	0.39	mg/Kg dry	1.94	ND	48.5		40-140			
Pentachlorophenol	0.430	0.39	mg/Kg dry	1.94	ND	**22.2**	*	30-130			MS-23
Phenanthrene	3.07	0.20	mg/Kg dry	1.94	ND	**159**	*	40-140			MS-23
Phenol	0.958	0.39	mg/Kg dry	1.94	ND	49.5		30-130			
Pyrene	2.97	0.20	mg/Kg dry	1.94	ND	**154**	*	40-140			MS-23
Pyridine	0.580	0.39	mg/Kg dry	1.94	ND	**30.0**	*	40-140			MS-09
1,2,4,5-Tetrachlorobenzene	0.853	0.39	mg/Kg dry	1.94	ND	44.1		40-140			
1,2,4-Trichlorobenzene	0.834	0.39	mg/Kg dry	1.94	ND	43.1		40-140			
2,4,5-Trichlorophenol	0.829	0.39	mg/Kg dry	1.94	ND	42.8		30-130			
2,4,6-Trichlorophenol	0.918	0.39	mg/Kg dry	1.94	ND	47.5		30-130			
Surrogate: 2-Fluorophenol	*3.63*		mg/Kg dry	7.74		46.8		30-130			
Surrogate: Phenol-d6	*3.86*		mg/Kg dry	7.74		49.8		30-130			
Surrogate: Nitrobenzene-d5	*1.85*		mg/Kg dry	3.87		47.7		30-130			
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/Kg dry	3.87		50.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.78*		mg/Kg dry	7.74		48.9		30-130			
Surrogate: p-Terphenyl-d14	*2.14*		mg/Kg dry	3.87		55.3		30-130			
Matrix Spike (B195346-MS2)	**Source: 18A0655-28**			Prepared: 01/23/18	Analyzed: 01/25/18						
Acenaphthene	1.59	0.20	mg/Kg dry	1.98	0.237	68.5		40-140			
Acenaphthylene	1.18	0.20	mg/Kg dry	1.98	ND	59.8		40-140			
Aniline	0.302	0.40	mg/Kg dry	1.98	ND	**15.2**	*	40-140			MS-09
Anthracene	1.78	0.20	mg/Kg dry	1.98	0.381	70.5		40-140			
Benzo(a)anthracene	3.07	0.20	mg/Kg dry	1.98	1.25	91.9		40-140			
Benzo(a)pyrene	3.10	0.20	mg/Kg dry	1.98	1.24	93.9		40-140			
Benzo(b)fluoranthene	3.65	0.20	mg/Kg dry	1.98	1.61	103		40-140			
Benzo(g,h,i)perylene	2.10	0.20	mg/Kg dry	1.98	0.672	72.0		40-140			
Benzo(k)fluoranthene	2.17	0.20	mg/Kg dry	1.98	0.637	77.3		40-140			
Bis(2-chloroethoxy)methane	1.32	0.40	mg/Kg dry	1.98	ND	66.5		40-140			
Bis(2-chloroethyl)ether	1.26	0.40	mg/Kg dry	1.98	ND	63.7		40-140			
Bis(2-chloroisopropyl)ether	1.26	0.40	mg/Kg dry	1.98	ND	63.6		40-140			
Bis(2-Ethylhexyl)phthalate	1.33	0.40	mg/Kg dry	1.98	ND	67.1		40-140			
4-Bromophenylphenylether	1.26	0.40	mg/Kg dry	1.98	ND	63.5		40-140			
Butylbenzylphthalate	1.33	0.40	mg/Kg dry	1.98	ND	67.3		40-140			
Carbazole	1.50	0.20	mg/Kg dry	1.98	0.180	66.8		40-140			
4-Chloroaniline	0.492	0.78	mg/Kg dry	1.98	ND	**24.9**	*	40-140			MS-09
4-Chloro-3-methylphenol	1.24	0.78	mg/Kg dry	1.98	ND	62.7		30-130			
2-Chloronaphthalene	1.14	0.40	mg/Kg dry	1.98	ND	57.7		40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195346 - SW-846 3546											
Matrix Spike (B195346-MS2)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/25/18							
2-Chlorophenol	1.14	0.40	mg/Kg dry	1.98	ND	57.5		30-130			
4-Chlorophenylphenylether	1.28	0.40	mg/Kg dry	1.98	ND	64.7		40-140			
Chrysene	2.99	0.20	mg/Kg dry	1.98	1.21	89.5		40-140			
Dibenz(a,h)anthracene	1.38	0.20	mg/Kg dry	1.98	0.132	62.8		40-140			
Dibenzofuran	1.37	0.40	mg/Kg dry	1.98	0.0788	65.0		40-140			
Di-n-butylphthalate	1.36	0.40	mg/Kg dry	1.98	ND	68.6		40-140			
3,3-Dichlorobenzidine	0.173	0.20	mg/Kg dry	1.98	ND	**8.76**	*	40-140			MS-09, R-06
2,4-Dichlorophenol	1.21	0.40	mg/Kg dry	1.98	ND	61.1		30-130			
Diethylphthalate	1.30	0.40	mg/Kg dry	1.98	ND	65.6		40-140			
2,4-Dimethylphenol	1.24	0.40	mg/Kg dry	1.98	ND	62.8		30-130			
Dimethylphthalate	1.26	0.40	mg/Kg dry	1.98	ND	63.9		40-140			
4,6-Dinitro-2-methylphenol	0.989	0.40	mg/Kg dry	1.98	ND	50.0		30-130			
2,4-Dinitrophenol	1.09	0.78	mg/Kg dry	1.98	ND	55.2		30-130			
2,4-Dinitrotoluene	1.25	0.40	mg/Kg dry	1.98	ND	63.3		40-140			
2,6-Dinitrotoluene	1.29	0.40	mg/Kg dry	1.98	ND	65.0		40-140			
Di-n-octylphthalate	1.64	0.40	mg/Kg dry	1.98	ND	82.6		40-140			
Fluoranthene	5.47	0.20	mg/Kg dry	1.98	2.74	138		40-140			
Fluorene	1.50	0.20	mg/Kg dry	1.98	0.162	67.5		40-140			
Hexachlorobenzene	1.22	0.40	mg/Kg dry	1.98	ND	61.8		40-140			
Hexachlorobutadiene	1.13	0.40	mg/Kg dry	1.98	ND	57.0		40-140			
Hexachlorocyclopentadiene	0.461	0.40	mg/Kg dry	1.98	ND	**23.3**	*	40-140			MS-09
Hexachloroethane	1.00	0.40	mg/Kg dry	1.98	ND	50.6		40-140			
Indeno(1,2,3-cd)pyrene	2.21	0.20	mg/Kg dry	1.98	0.722	75.0		40-140			
Isophorone	1.30	0.40	mg/Kg dry	1.98	ND	65.5		40-140			
2-Methylnaphthalene	1.30	0.20	mg/Kg dry	1.98	ND	65.7		40-140			
2-Methylphenol	1.08	0.40	mg/Kg dry	1.98	ND	54.6		30-130			
3/4-Methylphenol	1.21	0.40	mg/Kg dry	1.98	ND	61.1		30-130			
Naphthalene	1.21	0.20	mg/Kg dry	1.98	ND	61.4		40-140			
2-Nitroaniline	1.29	0.40	mg/Kg dry	1.98	ND	65.0		40-140			
3-Nitroaniline	0.660	0.40	mg/Kg dry	1.98	ND	**33.3**	*	40-140			MS-09
4-Nitroaniline	0.934	0.40	mg/Kg dry	1.98	ND	47.2		40-140			
Nitrobenzene	1.17	0.40	mg/Kg dry	1.98	ND	59.0		40-140			
2-Nitrophenol	1.16	0.40	mg/Kg dry	1.98	ND	58.6		30-130			
4-Nitrophenol	1.44	0.78	mg/Kg dry	1.98	ND	72.6		30-130			
N-Nitrosodiphenylamine	1.42	0.40	mg/Kg dry	1.98	ND	72.0		40-140			
N-Nitrosodi-n-propylamine	1.17	0.40	mg/Kg dry	1.98	ND	59.3		40-140			
Pentachloronitrobenzene	1.22	0.40	mg/Kg dry	1.98	ND	61.6		40-140			
Pentachlorophenol	0.841	0.40	mg/Kg dry	1.98	ND	42.5		30-130			
Phenanthrene	3.37	0.20	mg/Kg dry	1.98	1.50	94.6		40-140			
Phenol	1.19	0.40	mg/Kg dry	1.98	ND	60.4		30-130			
Pyrene	4.64	0.20	mg/Kg dry	1.98	2.26	120		40-140			
Pyridine	0.819	0.40	mg/Kg dry	1.98	ND	41.4		40-140			
1,2,4,5-Tetrachlorobenzene	1.14	0.40	mg/Kg dry	1.98	ND	57.6		40-140			
1,2,4-Trichlorobenzene	1.14	0.40	mg/Kg dry	1.98	ND	57.4		40-140			
2,4,5-Trichlorophenol	1.11	0.40	mg/Kg dry	1.98	ND	56.1		30-130			
2,4,6-Trichlorophenol	1.22	0.40	mg/Kg dry	1.98	ND	61.6		30-130			
Surrogate: 2-Fluorophenol	*4.86*		mg/Kg dry	7.92		61.3		30-130			
Surrogate: Phenol-d6	*5.04*		mg/Kg dry	7.92		63.6		30-130			
Surrogate: Nitrobenzene-d5	*2.45*		mg/Kg dry	3.96		61.9		30-130			
Surrogate: 2-Fluorobiphenyl	*2.51*		mg/Kg dry	3.96		63.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*5.61*		mg/Kg dry	7.92		70.9		30-130			
Surrogate: p-Terphenyl-d14	*2.76*		mg/Kg dry	3.96		69.7		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B195346 - SW-846 3546											
Matrix Spike Dup (B195346-MSD1)	**Source: 18A0655-01**			Prepared: 01/23/18 Analyzed: 01/25/18							
Acenaphthene	1.06	0.20	mg/Kg dry	1.94	ND	54.8	40-140	3.19		30	
Acenaphthylene	0.995	0.20	mg/Kg dry	1.94	ND	51.4	40-140	11.3		30	
Aniline	0.865	0.39	mg/Kg dry	1.94	ND	44.7	40-140	**32.6**	*	30	R-06
Anthracene	1.10	0.20	mg/Kg dry	1.94	ND	56.9	40-140	**34.4**	*	30	R-06
Benzo(a)anthracene	1.14	0.20	mg/Kg dry	1.94	ND	58.8	40-140	**60.6**	*	30	R-06
Benzo(a)pyrene	1.15	0.20	mg/Kg dry	1.94	ND	59.4	40-140	**50.7**	*	30	R-06
Benzo(b)fluoranthene	1.11	0.20	mg/Kg dry	1.94	ND	57.5	40-140	**58.7**	*	30	R-06
Benzo(g,h,i)perylene	1.13	0.20	mg/Kg dry	1.94	ND	58.5	40-140	29.6		30	
Benzo(k)fluoranthene	1.08	0.20	mg/Kg dry	1.94	ND	55.8	40-140	**30.2**	*	30	R-06
Bis(2-chloroethoxy)methane	1.14	0.39	mg/Kg dry	1.94	ND	58.7	40-140	10.8		30	
Bis(2-chloroethyl)ether	1.07	0.39	mg/Kg dry	1.94	ND	55.1	40-140	12.7		30	
Bis(2-chloroisopropyl)ether	1.10	0.39	mg/Kg dry	1.94	ND	56.8	40-140	15.9		30	
Bis(2-Ethylhexyl)phthalate	1.12	0.39	mg/Kg dry	1.94	ND	58.1	40-140	9.83		30	
4-Bromophenylphenylether	1.11	0.39	mg/Kg dry	1.94	ND	57.2	40-140	6.17		30	
Butylbenzylphthalate	1.12	0.39	mg/Kg dry	1.94	ND	57.7	40-140	7.63		30	
Carbazole	1.07	0.20	mg/Kg dry	1.94	ND	55.4	40-140	9.55		30	
4-Chloroaniline	0.834	0.77	mg/Kg dry	1.94	ND	43.1	40-140	24.1		30	
4-Chloro-3-methylphenol	1.05	0.77	mg/Kg dry	1.94	ND	54.4	30-130	10.6		30	
2-Chloronaphthalene	0.881	0.39	mg/Kg dry	1.94	ND	45.5	40-140	6.48		30	
2-Chlorophenol	0.994	0.39	mg/Kg dry	1.94	ND	51.4	30-130	14.8		30	
4-Chlorophenylphenylether	1.07	0.39	mg/Kg dry	1.94	ND	55.5	40-140	11.6		30	
Chrysene	1.13	0.20	mg/Kg dry	1.94	ND	58.3	40-140	**55.3**	*	30	R-06
Dibenz(a,h)anthracene	1.11	0.20	mg/Kg dry	1.94	ND	57.2	40-140	0.523		30	
Dibenzofuran	1.06	0.39	mg/Kg dry	1.94	ND	54.7	40-140	1.60		30	
Di-n-butylphthalate	1.17	0.39	mg/Kg dry	1.94	ND	60.4	40-140	9.13		30	
3,3-Dichlorobenzidine	0.908	0.20	mg/Kg dry	1.94	ND	46.9	40-140	21.9		30	
2,4-Dichlorophenol	1.02	0.39	mg/Kg dry	1.94	ND	52.5	30-130	8.75		30	
Diethylphthalate	1.08	0.39	mg/Kg dry	1.94	ND	55.7	40-140	10.1		30	
2,4-Dimethylphenol	1.03	0.39	mg/Kg dry	1.94	ND	53.5	30-130	9.44		30	
Dimethylphthalate	1.09	0.39	mg/Kg dry	1.94	ND	56.1	40-140	11.9		30	
4,6-Dinitro-2-methylphenol	0.933	0.39	mg/Kg dry	1.94	ND	48.2	30-130	8.12		30	
2,4-Dinitrophenol	0.844	0.77	mg/Kg dry	1.94	ND	43.6	30-130	7.18		30	
2,4-Dinitrotoluene	1.08	0.39	mg/Kg dry	1.94	ND	55.8	40-140	13.7		30	
2,6-Dinitrotoluene	1.08	0.39	mg/Kg dry	1.94	ND	55.8	40-140	9.85		30	
Di-n-octylphthalate	1.18	0.39	mg/Kg dry	1.94	ND	60.9	40-140	9.93		30	
Fluoranthene	1.23	0.20	mg/Kg dry	1.94	ND	63.4	40-140	**99.1**	*	30	R-06
Fluorene	1.09	0.20	mg/Kg dry	1.94	ND	56.3	40-140	6.20		30	
Hexachlorobenzene	1.09	0.39	mg/Kg dry	1.94	ND	56.2	40-140	11.8		30	
Hexachlorobutadiene	0.955	0.39	mg/Kg dry	1.94	ND	49.4	40-140	14.3		30	
Hexachlorocyclopentadiene	0.877	0.39	mg/Kg dry	1.94	ND	45.3	40-140	21.6		30	
Hexachloroethane	0.917	0.39	mg/Kg dry	1.94	ND	47.4	40-140	19.1		30	
Indeno(1,2,3-cd)pyrene	1.17	0.20	mg/Kg dry	1.94	ND	60.4	40-140	**34.8**	*	30	R-06
Isophorone	1.11	0.39	mg/Kg dry	1.94	ND	57.5	40-140	14.2		30	
2-Methylnaphthalene	1.07	0.20	mg/Kg dry	1.94	ND	55.4	40-140	8.20		30	
2-Methylphenol	0.917	0.39	mg/Kg dry	1.94	ND	47.4	30-130	14.4		30	
3/4-Methylphenol	1.00	0.39	mg/Kg dry	1.94	ND	51.8	30-130	9.07		30	
Naphthalene	0.985	0.20	mg/Kg dry	1.94	ND	50.9	40-140	14.7		30	
2-Nitroaniline	1.05	0.39	mg/Kg dry	1.94	ND	54.2	40-140	8.14		30	
3-Nitroaniline	0.967	0.39	mg/Kg dry	1.94	ND	50.0	40-140	21.2		30	
4-Nitroaniline	1.03	0.39	mg/Kg dry	1.94	ND	53.3	40-140	21.4		30	
Nitrobenzene	0.985	0.39	mg/Kg dry	1.94	ND	50.9	40-140	12.1		30	
2-Nitrophenol	0.959	0.39	mg/Kg dry	1.94	ND	49.6	30-130	9.29		30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B195346 - SW-846 3546												
Matrix Spike Dup (B195346-MSD1)	**Source: 18A0655-01**			Prepared: 01/23/18 Analyzed: 01/25/18								
4-Nitrophenol	1.12	0.77	mg/Kg dry	1.94	ND	57.6		30-130	12.7		30	
N-Nitrosodiphenylamine	1.27	0.39	mg/Kg dry	1.94	ND	65.8		40-140	6.27		30	
N-Nitrosodi-n-propylamine	1.00	0.39	mg/Kg dry	1.94	ND	51.8		40-140	11.1		30	
Pentachloronitrobenzene	1.07	0.39	mg/Kg dry	1.94	ND	55.2		40-140	13.0		30	
Pentachlorophenol	0.662	0.39	mg/Kg dry	1.94	ND	34.2		30-130	**42.4**	*	30	R-06
Phenanthrene	1.14	0.20	mg/Kg dry	1.94	ND	58.8		40-140	**91.9**	*	30	R-06
Phenol	1.07	0.39	mg/Kg dry	1.94	ND	55.1		30-130	10.7		30	
Pyrene	1.14	0.20	mg/Kg dry	1.94	ND	58.9		40-140	**89.2**	*	30	R-06
Pyridine	0.741	0.39	mg/Kg dry	1.94	ND	**38.3**	*	40-140	24.4		30	MS-09
1,2,4,5-Tetrachlorobenzene	0.985	0.39	mg/Kg dry	1.94	ND	50.9		40-140	14.3		30	
1,2,4-Trichlorobenzene	0.954	0.39	mg/Kg dry	1.94	ND	49.3		40-140	13.5		30	
2,4,5-Trichlorophenol	0.950	0.39	mg/Kg dry	1.94	ND	49.1		30-130	13.6		30	
2,4,6-Trichlorophenol	1.01	0.39	mg/Kg dry	1.94	ND	52.4		30-130	9.86		30	
Surrogate: 2-Fluorophenol	*4.25*		mg/Kg dry	7.74		54.9		30-130				
Surrogate: Phenol-d6	*4.28*		mg/Kg dry	7.74		55.2		30-130				
Surrogate: Nitrobenzene-d5	*2.13*		mg/Kg dry	3.87		55.0		30-130				
Surrogate: 2-Fluorobiphenyl	*2.18*		mg/Kg dry	3.87		56.3		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.39*		mg/Kg dry	7.74		56.6		30-130				
Surrogate: p-Terphenyl-d14	*2.31*		mg/Kg dry	3.87		59.7		30-130				
Matrix Spike Dup (B195346-MSD2)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/25/18								
Acenaphthene	1.58	0.20	mg/Kg dry	1.98	0.237	67.6		40-140	1.02		30	
Acenaphthylene	1.09	0.20	mg/Kg dry	1.98	ND	54.9		40-140	8.55		30	
Aniline	0.346	0.40	mg/Kg dry	1.98	ND	**17.5**	*	40-140	13.8		30	MS-09
Anthracene	1.85	0.20	mg/Kg dry	1.98	0.381	74.0		40-140	3.80		30	
Benzo(a)anthracene	2.92	0.20	mg/Kg dry	1.98	1.25	84.7		40-140	4.78		30	
Benzo(a)pyrene	2.91	0.20	mg/Kg dry	1.98	1.24	84.0		40-140	6.52		30	
Benzo(b)fluoranthene	3.41	0.20	mg/Kg dry	1.98	1.61	91.2		40-140	6.72		30	
Benzo(g,h,i)perylene	1.72	0.20	mg/Kg dry	1.98	0.672	52.9		40-140	19.8		30	
Benzo(k)fluoranthene	2.08	0.20	mg/Kg dry	1.98	0.637	73.0		40-140	3.95		30	
Bis(2-chloroethoxy)methane	1.23	0.40	mg/Kg dry	1.98	ND	61.9		40-140	7.13		30	
Bis(2-chloroethyl)ether	1.11	0.40	mg/Kg dry	1.98	ND	56.3		40-140	12.3		30	
Bis(2-chloroisopropyl)ether	1.15	0.40	mg/Kg dry	1.98	ND	58.2		40-140	8.80		30	
Bis(2-Ethylhexyl)phthalate	1.27	0.40	mg/Kg dry	1.98	ND	64.3		40-140	4.26		30	
4-Bromophenylphenylether	1.23	0.40	mg/Kg dry	1.98	ND	62.0		40-140	2.42		30	
Butylbenzylphthalate	1.23	0.40	mg/Kg dry	1.98	ND	62.1		40-140	8.13		30	
Carbazole	1.42	0.20	mg/Kg dry	1.98	0.180	62.5		40-140	5.78		30	
4-Chloroaniline	0.512	0.78	mg/Kg dry	1.98	ND	**25.9**	*	40-140	3.94		30	MS-09
4-Chloro-3-methylphenol	1.09	0.78	mg/Kg dry	1.98	ND	55.2		30-130	12.8		30	
2-Chloronaphthalene	1.11	0.40	mg/Kg dry	1.98	ND	56.0		40-140	3.03		30	
2-Chlorophenol	1.04	0.40	mg/Kg dry	1.98	ND	52.5		30-130	9.12		30	
4-Chlorophenylphenylether	1.16	0.40	mg/Kg dry	1.98	ND	58.7		40-140	9.72		30	
Chrysene	2.88	0.20	mg/Kg dry	1.98	1.21	84.4		40-140	3.49		30	
Dibenz(a,h)anthracene	1.18	0.20	mg/Kg dry	1.98	0.132	52.7		40-140	15.6		30	
Dibenzofuran	1.32	0.40	mg/Kg dry	1.98	0.0788	62.9		40-140	3.21		30	
Di-n-butylphthalate	1.26	0.40	mg/Kg dry	1.98	ND	63.9		40-140	7.07		30	
3,3-Dichlorobenzidine	0.383	0.20	mg/Kg dry	1.98	ND	**19.4**	*	40-140	**75.4**	*	30	MS-09, R-06
2,4-Dichlorophenol	1.10	0.40	mg/Kg dry	1.98	ND	55.4		30-130	9.75		30	
Diethylphthalate	1.16	0.40	mg/Kg dry	1.98	ND	58.8		40-140	10.8		30	
2,4-Dimethylphenol	1.11	0.40	mg/Kg dry	1.98	ND	55.8		30-130	11.7		30	
Dimethylphthalate	1.16	0.40	mg/Kg dry	1.98	ND	58.4		40-140	9.03		30	
4,6-Dinitro-2-methylphenol	0.919	0.40	mg/Kg dry	1.98	ND	46.5		30-130	7.26		30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195346 - SW-846 3546											
Matrix Spike Dup (B195346-MSD2)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/25/18							
2,4-Dinitrophenol	0.883	0.78	mg/Kg dry	1.98	ND	44.6		30-130	21.2	30	
2,4-Dinitrotoluene	1.10	0.40	mg/Kg dry	1.98	ND	55.5		40-140	13.1	30	
2,6-Dinitrotoluene	1.13	0.40	mg/Kg dry	1.98	ND	57.3		40-140	12.6	30	
Di-n-octylphthalate	1.48	0.40	mg/Kg dry	1.98	ND	74.8		40-140	9.96	30	
Fluoranthene	5.29	0.20	mg/Kg dry	1.98	2.74	129		40-140	3.36	30	
Fluorene	1.46	0.20	mg/Kg dry	1.98	0.162	65.8		40-140	2.35	30	
Hexachlorobenzene	1.18	0.40	mg/Kg dry	1.98	ND	59.6		40-140	3.59	30	
Hexachlorobutadiene	1.05	0.40	mg/Kg dry	1.98	ND	53.1		40-140	7.16	30	
Hexachlorocyclopentadiene	0.618	0.40	mg/Kg dry	1.98	ND	**31.2**	*	40-140	29.2	30	MS-09
Hexachloroethane	0.927	0.40	mg/Kg dry	1.98	ND	46.9		40-140	7.75	30	
Indeno(1,2,3-cd)pyrene	1.88	0.20	mg/Kg dry	1.98	0.722	58.4		40-140	16.1	30	
Isophorone	1.16	0.40	mg/Kg dry	1.98	ND	58.4		40-140	11.4	30	
2-Methylnaphthalene	1.20	0.20	mg/Kg dry	1.98	ND	60.8		40-140	7.78	30	
2-Methylphenol	0.937	0.40	mg/Kg dry	1.98	ND	47.4		30-130	14.2	30	
3/4-Methylphenol	1.05	0.40	mg/Kg dry	1.98	ND	53.2		30-130	13.7	30	
Naphthalene	1.14	0.20	mg/Kg dry	1.98	ND	57.5		40-140	6.43	30	
2-Nitroaniline	1.12	0.40	mg/Kg dry	1.98	ND	56.7		40-140	13.6	30	
3-Nitroaniline	0.752	0.40	mg/Kg dry	1.98	ND	**38.0**	*	40-140	13.0	30	MS-09
4-Nitroaniline	0.955	0.40	mg/Kg dry	1.98	ND	48.3		40-140	2.30	30	
Nitrobenzene	1.06	0.40	mg/Kg dry	1.98	ND	53.5		40-140	9.77	30	
2-Nitrophenol	1.05	0.40	mg/Kg dry	1.98	ND	53.0		30-130	10.0	30	
4-Nitrophenol	1.18	0.78	mg/Kg dry	1.98	ND	59.6		30-130	19.5	30	
N-Nitrosodiphenylamine	1.38	0.40	mg/Kg dry	1.98	ND	69.8		40-140	3.02	30	
N-Nitrosodi-n-propylamine	1.09	0.40	mg/Kg dry	1.98	ND	54.8		40-140	7.75	30	
Pentachloronitrobenzene	1.17	0.40	mg/Kg dry	1.98	ND	59.3		40-140	3.77	30	
Pentachlorophenol	0.734	0.40	mg/Kg dry	1.98	ND	37.1		30-130	13.6	30	
Phenanthrene	3.85	0.20	mg/Kg dry	1.98	1.50	119		40-140	13.2	30	
Phenol	1.08	0.40	mg/Kg dry	1.98	ND	54.7		30-130	9.91	30	
Pyrene	4.51	0.20	mg/Kg dry	1.98	2.26	114		40-140	2.80	30	
Pyridine	0.759	0.40	mg/Kg dry	1.98	ND	**38.3**	*	40-140	7.63	30	MS-22
1,2,4,5-Tetrachlorobenzene	1.08	0.40	mg/Kg dry	1.98	ND	54.7		40-140	5.06	30	
1,2,4-Trichlorobenzene	1.05	0.40	mg/Kg dry	1.98	ND	52.9		40-140	8.05	30	
2,4,5-Trichlorophenol	1.02	0.40	mg/Kg dry	1.98	ND	51.3		30-130	8.79	30	
2,4,6-Trichlorophenol	1.14	0.40	mg/Kg dry	1.98	ND	57.5		30-130	6.89	30	
Surrogate: 2-Fluorophenol	*4.42*		mg/Kg dry	7.92		55.9		30-130			
Surrogate: Phenol-d6	*4.46*		mg/Kg dry	7.92		56.3		30-130			
Surrogate: Nitrobenzene-d5	*2.17*		mg/Kg dry	3.96		54.9		30-130			
Surrogate: 2-Fluorobiphenyl	*2.37*		mg/Kg dry	3.96		59.8		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.88*		mg/Kg dry	7.92		61.6		30-130			
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg dry	3.96		63.5		30-130			
Batch B195626 - SW-846 3510C											
Blank (B195626-BLK1)				Prepared: 01/25/18 Analyzed: 01/26/18							
Acenaphthene (SIM)	ND	0.30	µg/L								
Acenaphthylene (SIM)	ND	0.30	µg/L								
Anthracene (SIM)	ND	0.20	µg/L								
Benzo(a)anthracene (SIM)	ND	0.050	µg/L								
Benzo(a)pyrene (SIM)	ND	0.10	µg/L								
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L								
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L								
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L								
Chrysene (SIM)	ND	0.20	µg/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195626 - SW-846 3510C										
Blank (B195626-BLK1)				Prepared: 01/25/18 Analyzed: 01/26/18						
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*81.5*		µg/L	100		81.5	30-130			
Surrogate: 2-Fluorobiphenyl	*66.7*		µg/L	100		66.7	30-130			
Surrogate: p-Terphenyl-d14	*68.4*		µg/L	100		68.4	30-130			
LCS (B195626-BS1)				Prepared: 01/25/18 Analyzed: 01/26/18						
Acenaphthene (SIM)	43.4	7.5	µg/L	50.0		86.8	40-140			
Acenaphthylene (SIM)	41.0	7.5	µg/L	50.0		81.9	40-140			
Anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Benzo(a)anthracene (SIM)	44.5	1.2	µg/L	50.0		89.0	40-140			
Benzo(a)pyrene (SIM)	46.3	2.5	µg/L	50.0		92.6	40-140			
Benzo(b)fluoranthene (SIM)	46.3	1.2	µg/L	50.0		92.6	40-140			
Benzo(g,h,i)perylene (SIM)	50.7	12	µg/L	50.0		101	40-140			
Benzo(k)fluoranthene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140			
Chrysene (SIM)	42.6	5.0	µg/L	50.0		85.2	40-140			
Dibenz(a,h)anthracene (SIM)	50.7	5.0	µg/L	50.0		101	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.0	25	µg/L	50.0		88.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	52.8	5.0	µg/L	50.0		106	40-140			
2-Methylnaphthalene (SIM)	44.2	25	µg/L	50.0		88.5	40-140			
Naphthalene (SIM)	40.8	25	µg/L	50.0		81.7	40-140			
Phenanthrene (SIM)	43.8	1.2	µg/L	50.0		87.6	40-140			
Pyrene (SIM)	43.2	25	µg/L	50.0		86.4	40-140			
Surrogate: Nitrobenzene-d5	*98.9*		µg/L	100		98.9	30-130			
Surrogate: 2-Fluorobiphenyl	*82.8*		µg/L	100		82.8	30-130			
Surrogate: p-Terphenyl-d14	*72.6*		µg/L	100		72.6	30-130			
LCS Dup (B195626-BSD1)				Prepared: 01/25/18 Analyzed: 01/26/18						
Acenaphthene (SIM)	42.2	7.5	µg/L	50.0		84.5	40-140	2.74	20	
Acenaphthylene (SIM)	39.8	7.5	µg/L	50.0		79.5	40-140	2.97	20	
Anthracene (SIM)	44.6	5.0	µg/L	50.0		89.2	40-140	2.00	20	
Benzo(a)anthracene (SIM)	43.4	1.2	µg/L	50.0		86.8	40-140	2.50	20	
Benzo(a)pyrene (SIM)	45.1	2.5	µg/L	50.0		90.2	40-140	2.68	20	
Benzo(b)fluoranthene (SIM)	45.2	1.2	µg/L	50.0		90.4	40-140	2.35	20	
Benzo(g,h,i)perylene (SIM)	49.7	12	µg/L	50.0		99.4	40-140	1.94	20	
Benzo(k)fluoranthene (SIM)	43.9	5.0	µg/L	50.0		87.8	40-140	1.36	20	
Chrysene (SIM)	41.8	5.0	µg/L	50.0		83.7	40-140	1.83	20	
Dibenz(a,h)anthracene (SIM)	49.6	5.0	µg/L	50.0		99.2	40-140	2.29	20	
Fluoranthene (SIM)	44.6	12	µg/L	50.0		89.3	40-140	2.16	20	
Fluorene (SIM)	42.9	25	µg/L	50.0		85.8	40-140	2.65	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.7	5.0	µg/L	50.0		103	40-140	2.01	20	‡
2-Methylnaphthalene (SIM)	42.4	25	µg/L	50.0		84.8	40-140	4.27	20	
Naphthalene (SIM)	39.0	25	µg/L	50.0		78.0	40-140	4.63	20	
Phenanthrene (SIM)	42.9	1.2	µg/L	50.0		85.8	40-140	2.13	20	
Pyrene (SIM)	42.3	25	µg/L	50.0		84.6	40-140	2.16	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195626 - SW-846 3510C										
LCS Dup (B195626-BSD1)				Prepared: 01/25/18 Analyzed: 01/26/18						
Surrogate: Nitrobenzene-d5	*91.4*		µg/L	100		91.4	30-130			
Surrogate: 2-Fluorobiphenyl	*82.4*		µg/L	100		82.4	30-130			
Surrogate: p-Terphenyl-d14	*71.8*		µg/L	100		71.8	30-130			
Batch B195629 - SW-846 3510C										
Blank (B195629-BLK1)				Prepared: 01/23/18 Analyzed: 01/25/18						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							V-34
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195629 - SW-846 3510C											
Blank (B195629-BLK1)				Prepared: 01/23/18 Analyzed: 01/25/18							
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachloronitrobenzene	ND	10	µg/L							V-16	
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*94.4*		µg/L	200		47.2	15-110				
Surrogate: Phenol-d6	*57.7*		µg/L	200		28.8	15-110				
Surrogate: Nitrobenzene-d5	*79.6*		µg/L	100		79.6	30-130				
Surrogate: 2-Fluorobiphenyl	*76.7*		µg/L	100		76.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*160*		µg/L	200		80.1	15-110				
Surrogate: p-Terphenyl-d14	*88.4*		µg/L	100		88.4	30-130				
LCS (B195629-BS1)				Prepared: 01/23/18 Analyzed: 01/25/18							
Acenaphthene	62.9	5.0	µg/L	100		62.9	40-140				
Acenaphthylene	58.2	5.0	µg/L	100		58.2	40-140				
Aniline	61.8	5.0	µg/L	100		61.8	40-140				†
Anthracene	63.8	5.0	µg/L	100		63.8	40-140				
Benzo(a)anthracene	64.3	5.0	µg/L	100		64.3	40-140				
Benzo(a)pyrene	65.4	5.0	µg/L	100		65.4	40-140				
Benzo(b)fluoranthene	62.1	5.0	µg/L	100		62.1	40-140				
Benzo(g,h,i)perylene	60.5	5.0	µg/L	100		60.5	40-140				
Benzo(k)fluoranthene	61.6	5.0	µg/L	100		61.6	40-140				
Bis(2-chloroethoxy)methane	69.1	10	µg/L	100		69.1	40-140				
Bis(2-chloroethyl)ether	63.5	10	µg/L	100		63.5	40-140				
Bis(2-chloroisopropyl)ether	69.5	10	µg/L	100		69.5	40-140				
Bis(2-Ethylhexyl)phthalate	68.3	10	µg/L	100		68.3	40-140				
4-Bromophenylphenylether	69.7	10	µg/L	100		69.7	40-140				
Butylbenzylphthalate	69.5	10	µg/L	100		69.5	40-140				
Carbazole	60.2	10	µg/L	100		60.2	40-140				
4-Chloroaniline	53.3	10	µg/L	100		53.3	40-140			V-34	†
4-Chloro-3-methylphenol	62.6	10	µg/L	100		62.6	30-130				
2-Chloronaphthalene	55.4	10	µg/L	100		55.4	40-140				
2-Chlorophenol	57.4	10	µg/L	100		57.4	30-130				
4-Chlorophenylphenylether	59.9	10	µg/L	100		59.9	40-140				
Chrysene	63.0	5.0	µg/L	100		63.0	40-140				
Dibenz(a,h)anthracene	65.6	5.0	µg/L	100		65.6	40-140				
Dibenzofuran	59.2	5.0	µg/L	100		59.2	40-140				
Di-n-butylphthalate	62.9	10	µg/L	100		62.9	40-140				

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195629 - SW-846 3510C											
LCS (B195629-BS1)				Prepared: 01/23/18 Analyzed: 01/25/18							
3,3-Dichlorobenzidine	65.6	10	µg/L	100		65.6	40-140			V-34	†
2,4-Dichlorophenol	59.4	10	µg/L	100		59.4	30-130				
Diethylphthalate	57.4	10	µg/L	100		57.4	40-140				
2,4-Dimethylphenol	60.4	10	µg/L	100		60.4	30-130				
Dimethylphthalate	61.2	10	µg/L	100		61.2	40-140				
4,6-Dinitro-2-methylphenol	62.6	10	µg/L	100		62.6	30-130				
2,4-Dinitrophenol	71.6	10	µg/L	100		71.6	30-130				
2,4-Dinitrotoluene	63.4	10	µg/L	100		63.4	40-140				
2,6-Dinitrotoluene	66.0	10	µg/L	100		66.0	40-140				
Di-n-octylphthalate	64.9	10	µg/L	100		64.9	40-140				
Fluoranthene	58.3	5.0	µg/L	100		58.3	40-140				
Fluorene	56.4	5.0	µg/L	100		56.4	40-140				
Hexachlorobenzene	66.3	10	µg/L	100		66.3	40-140				
Hexachlorobutadiene	63.1	10	µg/L	100		63.1	40-140				
Hexachlorocyclopentadiene	62.8	10	µg/L	100		62.8	30-140				
Hexachloroethane	59.6	10	µg/L	100		59.6	40-140				
Indeno(1,2,3-cd)pyrene	65.2	5.0	µg/L	100		65.2	40-140				
Isophorone	66.2	10	µg/L	100		66.2	40-140				
2-Methylnaphthalene	66.9	5.0	µg/L	100		66.9	40-140				
2-Methylphenol	52.6	10	µg/L	100		52.6	30-130				
3/4-Methylphenol	48.2	10	µg/L	100		48.2	30-130				
Naphthalene	59.2	5.0	µg/L	100		59.2	40-140				
2-Nitroaniline	76.4	10	µg/L	100		76.4	40-140				
3-Nitroaniline	56.5	10	µg/L	100		56.5	40-140				†
4-Nitroaniline	56.3	10	µg/L	100		56.3	40-140				
Nitrobenzene	59.2	10	µg/L	100		59.2	40-140				
2-Nitrophenol	66.4	10	µg/L	100		66.4	30-130				
4-Nitrophenol	30.1	10	µg/L	100		30.1	10-130				
N-Nitrosodiphenylamine	76.5	10	µg/L	100		76.5	40-140				
N-Nitrosodi-n-propylamine	61.9	10	µg/L	100		61.9	40-140				
Pentachloronitrobenzene	65.2	10	µg/L	100		65.2	40-140			V-16	
Pentachlorophenol	66.2	10	µg/L	100		66.2	30-130				
Phenanthrene	63.1	5.0	µg/L	100		63.1	40-140				
Phenol	25.3	10	µg/L	100		25.3	20-130				
Pyrene	68.2	5.0	µg/L	100		68.2	40-140				
Pyridine	30.0	5.0	µg/L	100		30.0	10-140				†
1,2,4,5-Tetrachlorobenzene	60.7	10	µg/L	100		60.7	40-140				
1,2,4-Trichlorobenzene	60.3	5.0	µg/L	100		60.3	40-140				
2,4,5-Trichlorophenol	62.9	10	µg/L	100		62.9	30-130				
2,4,6-Trichlorophenol	65.3	10	µg/L	100		65.3	30-130				
Surrogate: 2-Fluorophenol	*77.2*		µg/L	200		38.6	15-110				
Surrogate: Phenol-d6	*52.6*		µg/L	200		26.3	15-110				
Surrogate: Nitrobenzene-d5	*64.9*		µg/L	100		64.9	30-130				
Surrogate: 2-Fluorobiphenyl	*66.6*		µg/L	100		66.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*128*		µg/L	200		64.1	15-110				
Surrogate: p-Terphenyl-d14	*72.8*		µg/L	100		72.8	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195629 - SW-846 3510C											
LCS Dup (B195629-BSD1)				Prepared: 01/23/18 Analyzed: 01/25/18							
Acenaphthene	61.8	5.0	µg/L	100		61.8	40-140	1.86	20		
Acenaphthylene	58.1	5.0	µg/L	100		58.1	40-140	0.172	20		
Aniline	58.2	5.0	µg/L	100		58.2	40-140	6.00	50		† ‡
Anthracene	62.4	5.0	µg/L	100		62.4	40-140	2.19	20		
Benzo(a)anthracene	60.7	5.0	µg/L	100		60.7	40-140	5.79	20		
Benzo(a)pyrene	64.5	5.0	µg/L	100		64.5	40-140	1.42	20		
Benzo(b)fluoranthene	61.5	5.0	µg/L	100		61.5	40-140	1.04	20		
Benzo(g,h,i)perylene	59.6	5.0	µg/L	100		59.6	40-140	1.65	20		
Benzo(k)fluoranthene	61.7	5.0	µg/L	100		61.7	40-140	0.146	20		
Bis(2-chloroethoxy)methane	64.2	10	µg/L	100		64.2	40-140	7.47	20		
Bis(2-chloroethyl)ether	59.2	10	µg/L	100		59.2	40-140	6.99	20		
Bis(2-chloroisopropyl)ether	63.5	10	µg/L	100		63.5	40-140	9.08	20		
Bis(2-Ethylhexyl)phthalate	63.2	10	µg/L	100		63.2	40-140	7.78	20		
4-Bromophenylphenylether	69.2	10	µg/L	100		69.2	40-140	0.720	20		
Butylbenzylphthalate	64.6	10	µg/L	100		64.6	40-140	7.31	20		
Carbazole	55.9	10	µg/L	100		55.9	40-140	7.37	20		
4-Chloroaniline	49.7	10	µg/L	100		49.7	40-140	7.03	20	V-34	†
4-Chloro-3-methylphenol	61.5	10	µg/L	100		61.5	30-130	1.90	20		
2-Chloronaphthalene	56.7	10	µg/L	100		56.7	40-140	2.19	20		
2-Chlorophenol	54.8	10	µg/L	100		54.8	30-130	4.61	20		
4-Chlorophenylphenylether	61.8	10	µg/L	100		61.8	40-140	3.10	20		
Chrysene	59.8	5.0	µg/L	100		59.8	40-140	5.24	20		
Dibenz(a,h)anthracene	63.2	5.0	µg/L	100		63.2	40-140	3.80	20		
Dibenzofuran	66.6	5.0	µg/L	100		66.6	40-140	11.8	20		
Di-n-butylphthalate	59.2	10	µg/L	100		59.2	40-140	6.03	20		
3,3-Dichlorobenzidine	62.5	10	µg/L	100		62.5	40-140	4.84	20	V-34	† ‡
2,4-Dichlorophenol	63.2	10	µg/L	100		63.2	30-130	6.25	20		
Diethylphthalate	61.8	10	µg/L	100		61.8	40-140	7.33	20		
2,4-Dimethylphenol	63.4	10	µg/L	100		63.4	30-130	4.75	20		
Dimethylphthalate	60.4	10	µg/L	100		60.4	40-140	1.32	50		
4,6-Dinitro-2-methylphenol	60.2	10	µg/L	100		60.2	30-130	3.88	50		
2,4-Dinitrophenol	74.2	10	µg/L	100		74.2	30-130	3.59	50		
2,4-Dinitrotoluene	65.6	10	µg/L	100		65.6	40-140	3.44	20		
2,6-Dinitrotoluene	65.4	10	µg/L	100		65.4	40-140	0.822	20		
Di-n-octylphthalate	58.4	10	µg/L	100		58.4	40-140	10.6	20		
Fluoranthene	55.5	5.0	µg/L	100		55.5	40-140	5.01	20		
Fluorene	58.4	5.0	µg/L	100		58.4	40-140	3.31	20		
Hexachlorobenzene	64.8	10	µg/L	100		64.8	40-140	2.23	20		
Hexachlorobutadiene	60.5	10	µg/L	100		60.5	40-140	4.16	20		
Hexachlorocyclopentadiene	61.2	10	µg/L	100		61.2	30-140	2.56	50		
Hexachloroethane	61.6	10	µg/L	100		61.6	40-140	3.42	50		
Indeno(1,2,3-cd)pyrene	63.7	5.0	µg/L	100		63.7	40-140	2.37	50		
Isophorone	62.0	10	µg/L	100		62.0	40-140	6.52	20		
2-Methylnaphthalene	64.9	5.0	µg/L	100		64.9	40-140	3.13	20		
2-Methylphenol	49.6	10	µg/L	100		49.6	30-130	5.88	20		
3/4-Methylphenol	46.0	10	µg/L	100		46.0	30-130	4.76	20		
Naphthalene	55.8	5.0	µg/L	100		55.8	40-140	5.94	20		
2-Nitroaniline	71.6	10	µg/L	100		71.6	40-140	6.61	20		
3-Nitroaniline	57.9	10	µg/L	100		57.9	40-140	2.53	20		†
4-Nitroaniline	56.4	10	µg/L	100		56.4	40-140	0.177	20		
Nitrobenzene	60.8	10	µg/L	100		60.8	40-140	2.70	20		
2-Nitrophenol	63.9	10	µg/L	100		63.9	30-130	3.76	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195629 - SW-846 3510C											
LCS Dup (B195629-BSD1)				Prepared: 01/23/18 Analyzed: 01/25/18							
4-Nitrophenol	29.8	10	µg/L	100		29.8	10-130	0.967	50		‡
N-Nitrosodiphenylamine	73.1	10	µg/L	100		73.1	40-140	4.57	20		
N-Nitrosodi-n-propylamine	58.8	10	µg/L	100		58.8	40-140	5.04	20		
Pentachloronitrobenzene	67.3	10	µg/L	100		67.3	40-140	3.14	20	V-16	
Pentachlorophenol	66.1	10	µg/L	100		66.1	30-130	0.121	50		
Phenanthrene	61.7	5.0	µg/L	100		61.7	40-140	2.26	20		
Phenol	23.5	10	µg/L	100		23.5	20-130	7.29	20		
Pyrene	61.6	5.0	µg/L	100		61.6	40-140	10.1	20		
Pyridine	33.5	5.0	µg/L	100		33.5	10-140	10.9	50		†
1,2,4,5-Tetrachlorobenzene	60.9	10	µg/L	100		60.9	40-140	0.329	20		
1,2,4-Trichlorobenzene	57.4	5.0	µg/L	100		57.4	40-140	4.94	20		
2,4,5-Trichlorophenol	63.0	10	µg/L	100		63.0	30-130	0.143	20		
2,4,6-Trichlorophenol	64.5	10	µg/L	100		64.5	30-130	1.19	50		
Surrogate: 2-Fluorophenol	*73.2*		µg/L	200		36.6	15-110				
Surrogate: Phenol-d6	*48.9*		µg/L	200		24.4	15-110				
Surrogate: Nitrobenzene-d5	*65.8*		µg/L	100		65.8	30-130				
Surrogate: 2-Fluorobiphenyl	*65.0*		µg/L	100		65.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*133*		µg/L	200		66.4	15-110				
Surrogate: p-Terphenyl-d14	*67.5*		µg/L	100		67.5	30-130				

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195342 - SW-846 3510C										
Blank (B195342-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.88*		µg/L	2.00		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.74*		µg/L	2.00		87.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.54*		µg/L	2.00		76.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.59*		µg/L	2.00		79.6	30-150			
LCS (B195342-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Aroclor-1016	0.38	0.20	µg/L	0.500		76.9	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.2	40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		84.9	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.7	40-140			
Surrogate: Decachlorobiphenyl	*1.91*		µg/L	2.00		95.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.78*		µg/L	2.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.60*		µg/L	2.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.64*		µg/L	2.00		82.0	30-150			
LCS Dup (B195342-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Aroclor-1016	0.39	0.20	µg/L	0.500		78.0	40-140	1.52	20	
Aroclor-1016 [2C]	0.44	0.20	µg/L	0.500		87.5	40-140	3.01	20	
Aroclor-1260	0.42	0.20	µg/L	0.500		83.7	40-140	1.44	20	
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.1	40-140	4.01	20	
Surrogate: Decachlorobiphenyl	*1.81*		µg/L	2.00		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.68*		µg/L	2.00		83.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.51*		µg/L	2.00		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.57*		µg/L	2.00		78.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195410 - SW-846 3540C										
Blank (B195410-BLK1)				Prepared: 01/23/18 Analyzed: 01/26/18						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.2	30-150			
LCS (B195410-BS1)				Prepared: 01/23/18 Analyzed: 01/26/18						
Aroclor-1016	0.21	0.020	mg/Kg wet	0.200		105	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.4	40-140			
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		98.2	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		95.1	40-140			
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
LCS Dup (B195410-BSD1)				Prepared: 01/23/18 Analyzed: 01/26/18						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140	4.43	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.0	40-140	3.66	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.9	40-140	4.45	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.2	40-140	4.20	30	
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.200		97.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195410 - SW-846 3540C											
Matrix Spike (B195410-MS1)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/26/18							
Aroclor-1016	0.35	0.095	mg/Kg dry	0.237	ND	**148**	*	40-140			MS-21
Aroclor-1016 [2C]	0.30	0.095	mg/Kg dry	0.237	ND	125		40-140			
Aroclor-1260	0.72	0.095	mg/Kg dry	0.237	0.49	93.0		40-140			
Aroclor-1260 [2C]	0.73	0.095	mg/Kg dry	0.237	0.51	92.4		40-140			
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg dry	0.237		80.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg dry	0.237		89.6		30-150			
Surrogate: Tetrachloro-m-xylene	*0.217*		mg/Kg dry	0.237		91.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.225*		mg/Kg dry	0.237		94.8		30-150			
Matrix Spike (B195410-MS2)	**Source: 18A0655-20**			Prepared: 01/23/18 Analyzed: 01/26/18							
Aroclor-1016	0.23	0.090	mg/Kg dry	0.225	ND	104		40-140			
Aroclor-1016 [2C]	0.24	0.090	mg/Kg dry	0.225	ND	107		40-140			
Aroclor-1260	0.24	0.090	mg/Kg dry	0.225	ND	105		40-140			
Aroclor-1260 [2C]	0.24	0.090	mg/Kg dry	0.225	ND	105		40-140			
Surrogate: Decachlorobiphenyl	*0.217*		mg/Kg dry	0.225		96.5		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg dry	0.225		99.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.215*		mg/Kg dry	0.225		95.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.220*		mg/Kg dry	0.225		97.9		30-150			
Matrix Spike Dup (B195410-MSD1)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/26/18							
Aroclor-1016	0.36	0.095	mg/Kg dry	0.237	ND	**151**	*	40-140	1.98	50	MS-21
Aroclor-1016 [2C]	0.29	0.095	mg/Kg dry	0.237	ND	120		40-140	3.97	50	
Aroclor-1260	0.63	0.095	mg/Kg dry	0.237	0.49	55.8		40-140	13.2	50	
Aroclor-1260 [2C]	0.65	0.095	mg/Kg dry	0.237	0.51	60.0		40-140	11.1	50	
Surrogate: Decachlorobiphenyl	*0.186*		mg/Kg dry	0.237		78.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg dry	0.237		86.6		30-150			
Surrogate: Tetrachloro-m-xylene	*0.210*		mg/Kg dry	0.237		88.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg dry	0.237		90.9		30-150			
Matrix Spike Dup (B195410-MSD2)	**Source: 18A0655-20**			Prepared: 01/23/18 Analyzed: 01/26/18							
Aroclor-1016	0.26	0.090	mg/Kg dry	0.225	ND	115		40-140	9.48	50	
Aroclor-1016 [2C]	0.23	0.090	mg/Kg dry	0.225	ND	104		40-140	3.12	50	
Aroclor-1260	0.23	0.090	mg/Kg dry	0.225	ND	102		40-140	3.17	50	
Aroclor-1260 [2C]	0.23	0.090	mg/Kg dry	0.225	ND	102		40-140	3.23	50	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg dry	0.225		94.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.216*		mg/Kg dry	0.225		96.1		30-150			
Surrogate: Tetrachloro-m-xylene	*0.212*		mg/Kg dry	0.225		94.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.217*		mg/Kg dry	0.225		96.6		30-150			
Batch B195477 - SW-846 3540C											
Blank (B195477-BLK1)				Prepared: 01/24/18 Analyzed: 01/26/18							
Aroclor-1016	ND	0.020	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1221	ND	0.020	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1232	ND	0.020	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1242	ND	0.020	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1248	ND	0.020	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1254	ND	0.020	mg/Kg wet								

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195477 - SW-846 3540C											
Blank (B195477-BLK1)				Prepared: 01/24/18 Analyzed: 01/26/18							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1260	ND	0.020	mg/Kg wet								
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1262	ND	0.020	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1268	ND	0.020	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.213*		mg/Kg wet	0.200		107		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.221*		mg/Kg wet	0.200		111		30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		103		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.213*		mg/Kg wet	0.200		106		30-150			
LCS (B195477-BS1)				Prepared: 01/24/18 Analyzed: 01/26/18							
Aroclor-1016	0.21	0.020	mg/Kg wet	0.200		107		40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102		40-140			
Aroclor-1260	0.21	0.020	mg/Kg wet	0.200		105		40-140			
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.200		103		40-140			
Surrogate: Decachlorobiphenyl	*0.202*		mg/Kg wet	0.200		101		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg wet	0.200		107		30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg wet	0.200		99.6		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg wet	0.200		104		30-150			
LCS Dup (B195477-BSD1)				Prepared: 01/24/18 Analyzed: 01/26/18							
Aroclor-1016	0.22	0.020	mg/Kg wet	0.200		108		40-140	0.816	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102		40-140	0.322	30	
Aroclor-1260	0.22	0.020	mg/Kg wet	0.200		109		40-140	3.72	30	
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.200		107		40-140	3.70	30	
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.220*		mg/Kg wet	0.200		110		30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		96.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg wet	0.200		100		30-150			
Matrix Spike (B195477-MS1)	**Source: 18A0655-32**			Prepared: 01/24/18 Analyzed: 01/28/18							
Aroclor-1016	0.30	0.089	mg/Kg dry	0.222	ND	135		40-140			
Aroclor-1016 [2C]	0.30	0.089	mg/Kg dry	0.222	ND	133		40-140			
Aroclor-1260	1.1	0.089	mg/Kg dry	0.222	1.3	**-83.7**	*	40-140			MS-19
Aroclor-1260 [2C]	1.3	0.089	mg/Kg dry	0.222	1.5	**-71.1**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg dry	0.222		84.5		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg dry	0.222		83.4		30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg dry	0.222		86.6		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.212*		mg/Kg dry	0.222		95.3		30-150			
Matrix Spike Dup (B195477-MSD1)	**Source: 18A0655-32**			Prepared: 01/24/18 Analyzed: 01/28/18							
Aroclor-1016	0.25	0.091	mg/Kg dry	0.227	ND	111		40-140	17.6	50	
Aroclor-1016 [2C]	0.32	0.091	mg/Kg dry	0.227	ND	140		40-140	7.41	50	MS-22
Aroclor-1260	1.5	0.091	mg/Kg dry	0.227	1.3	85.3		40-140	28.4	50	
Aroclor-1260 [2C]	1.7	0.091	mg/Kg dry	0.227	1.5	128		40-140	29.4	50	
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg dry	0.227		85.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg dry	0.227		83.9		30-150			
Surrogate: Tetrachloro-m-xylene	*0.188*		mg/Kg dry	0.227		83.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.213*		mg/Kg dry	0.227		93.8		30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195343 - SW-846 3510C											
Blank (B195343-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	ND	0.075	mg/L								
Surrogate: o-Terphenyl	*0.0935*		mg/L	0.100		93.5		50-150			
LCS (B195343-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	0.840	0.075	mg/L	1.00		84.0		60-120			
Surrogate: o-Terphenyl	*0.0949*		mg/L	0.100		94.9		50-150			
LCS Dup (B195343-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	0.860	0.075	mg/L	1.00		86.0		60-120	2.44	30	
Surrogate: o-Terphenyl	*0.0950*		mg/L	0.100		95.0		50-150			
Batch B195345 - SW-846 3546											
Blank (B195345-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.43*		mg/Kg wet	3.33		72.9		50-150			
LCS (B195345-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	21.8	10	mg/Kg wet	33.3		65.4		60-120			
Surrogate: o-Terphenyl	*2.54*		mg/Kg wet	3.33		76.3		50-150			
LCS Dup (B195345-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	21.7	10	mg/Kg wet	33.3		65.1		60-120	0.359	30	
Surrogate: o-Terphenyl	*2.52*		mg/Kg wet	3.33		75.5		50-150			
Matrix Spike (B195345-MS1)	**Source: 18A0655-01**			Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	30.7	12	mg/Kg dry	38.7	20.8	**25.6**	*	50-150			MS-07A
Surrogate: o-Terphenyl	*2.25*		mg/Kg dry	3.87		58.1		50-150			
Matrix Spike (B195345-MS2)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/25/18							
CT ETPH	285	59	mg/Kg dry	39.6	118	**423**	*	50-150			MS-07A
Surrogate: o-Terphenyl	*1.89*		mg/Kg dry	3.96		**47.9**	*	50-150			S-25
Matrix Spike Dup (B195345-MSD1)	**Source: 18A0655-01**			Prepared: 01/23/18 Analyzed: 01/24/18							
CT ETPH	30.7	12	mg/Kg dry	38.7	20.8	**25.6**	*	50-150	0.00861	30	MS-07A
Surrogate: o-Terphenyl	*2.00*		mg/Kg dry	3.87		51.8		50-150			
Matrix Spike Dup (B195345-MSD2)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/25/18							
CT ETPH	156	59	mg/Kg dry	39.6	118	95.5		50-150	**58.8**	* 30	MS-07A
Surrogate: o-Terphenyl	*2.06*		mg/Kg dry	3.96		52.2		50-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195592 - SW-846 3546										
Blank (B195592-BLK1)				Prepared: 01/25/18 Analyzed: 01/26/18						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.04*		mg/Kg wet	3.33		91.3	50-150			
LCS (B195592-BS1)				Prepared: 01/25/18 Analyzed: 01/26/18						
CT ETPH	26.0	10	mg/Kg wet	33.3		77.9	60-120			
Surrogate: o-Terphenyl	*3.06*		mg/Kg wet	3.33		91.7	50-150			
LCS Dup (B195592-BSD1)				Prepared: 01/25/18 Analyzed: 01/26/18						
CT ETPH	25.6	10	mg/Kg wet	33.3		76.8	60-120	1.42	30	
Surrogate: o-Terphenyl	*3.00*		mg/Kg wet	3.33		90.0	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195349 - SW-846 7471										
Blank (B195349-BLK1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B195349-BS1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	9.19	2.0	mg/Kg wet	9.36		98.2	73.7-126.3			
LCS Dup (B195349-BSD1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	9.69	1.9	mg/Kg wet	9.36		104	73.7-126.3	5.33	30	
Duplicate (B195349-DUP1)		**Source: 18A0655-01**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	ND	0.029	mg/Kg dry		ND			NC	35	
Matrix Spike (B195349-MS1)		**Source: 18A0655-01**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.204	0.029	mg/Kg dry	0.195	0.0148	96.8	75-125			
Matrix Spike (B195349-MS2)		**Source: 18A0655-14**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.217	0.030	mg/Kg dry	0.198	0.0290	95.0	75-125			
Matrix Spike Dup (B195349-MSD1)		**Source: 18A0655-01**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.196	0.029	mg/Kg dry	0.193	0.0148	94.0	75-125	3.76	35	
Matrix Spike Dup (B195349-MSD2)		**Source: 18A0655-14**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.225	0.029	mg/Kg dry	0.193	0.0290	102	75-125	3.69	35	
Batch B195354 - SW-846 3050B										
Blank (B195354-BLK1)				Prepared: 01/24/18 Analyzed: 01/29/18						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B195354-BS1)				Prepared: 01/24/18 Analyzed: 01/29/18						
Antimony	69.8	5.0	mg/Kg wet	65.1		107	3.8-212			
Arsenic	147	5.0	mg/Kg wet	147		99.8	83-117			
Barium	312	5.0	mg/Kg wet	314		99.5	82.2-117.8			
Beryllium	54.5	0.50	mg/Kg wet	53.4		102	82.8-117.2			
Cadmium	190	0.50	mg/Kg wet	193		98.6	82.4-117.6			
Chromium	82.4	1.0	mg/Kg wet	82.6		99.8	81.8-118.2			
Copper	174	1.0	mg/Kg wet	171		102	83.6-116.4			
Lead	89.2	1.5	mg/Kg wet	92.3		96.6	82.8-117			
Nickel	137	1.0	mg/Kg wet	137		99.7	82.5-118.2			
Selenium	185	10	mg/Kg wet	187		98.9	79.1-121.4			
Silver	39.1	1.0	mg/Kg wet	40.7		96.1	79.6-120.4			
Thallium	148	5.0	mg/Kg wet	153		96.8	81-119			
Vanadium	90.6	2.0	mg/Kg wet	86.6		105	77.6-122.4			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195354 - SW-846 3050B											
LCS (B195354-BS1)				Prepared: 01/24/18 Analyzed: 01/29/18							
Zinc	192	2.0	mg/Kg wet	189		102		79.9-120.1			
LCS Dup (B195354-BSD1)				Prepared: 01/24/18 Analyzed: 01/29/18							
Antimony	70.6	5.0	mg/Kg wet	65.1		108		3.8-212	1.16	30	
Arsenic	159	5.0	mg/Kg wet	147		108		83-117	7.78	30	
Barium	326	5.0	mg/Kg wet	314		104		82.2-117.8	4.16	30	
Beryllium	57.5	0.50	mg/Kg wet	53.4		108		82.8-117.2	5.27	30	
Cadmium	196	0.50	mg/Kg wet	193		101		82.4-117.6	2.70	30	
Chromium	87.5	1.0	mg/Kg wet	82.6		106		81.8-118.2	6.00	30	
Copper	184	1.0	mg/Kg wet	171		108		83.6-116.4	5.90	30	
Lead	97.3	1.5	mg/Kg wet	92.3		105		82.8-117	8.77	30	
Nickel	140	1.0	mg/Kg wet	137		102		82.5-118.2	2.54	30	
Selenium	204	10	mg/Kg wet	187		109		79.1-121.4	9.67	30	
Silver	41.5	1.0	mg/Kg wet	40.7		102		79.6-120.4	5.83	30	
Thallium	155	5.0	mg/Kg wet	153		101		81-119	4.72	30	
Vanadium	93.5	2.0	mg/Kg wet	86.6		108		77.6-122.4	3.16	30	
Zinc	202	2.0	mg/Kg wet	189		107		79.9-120.1	4.75	30	
Duplicate (B195354-DUP1)	**Source: 18A0655-01**			Prepared: 01/24/18 Analyzed: 01/29/18							
Antimony	ND	1.9	mg/Kg dry		ND				NC	35	
Arsenic	ND	1.9	mg/Kg dry		ND				NC	35	
Barium	109	1.9	mg/Kg dry		119				9.13	35	
Beryllium	0.412	0.19	mg/Kg dry		0.390				5.39	35	
Cadmium	ND	0.19	mg/Kg dry		ND				NC	35	
Chromium	21.1	0.39	mg/Kg dry		23.1				8.71	35	
Copper	32.5	0.39	mg/Kg dry		36.4				11.3	35	
Lead	12.0	0.58	mg/Kg dry		12.3				2.40	35	
Nickel	19.4	0.39	mg/Kg dry		21.5				10.2	35	
Selenium	ND	3.9	mg/Kg dry		ND				NC	35	
Silver	ND	0.39	mg/Kg dry		ND				NC	35	
Thallium	ND	1.9	mg/Kg dry		ND				NC	35	
Vanadium	36.2	0.78	mg/Kg dry		37.7				4.07	35	
Zinc	50.8	0.78	mg/Kg dry		53.1				4.55	35	
MRL Check (B195354-MRL1)				Prepared: 01/24/18 Analyzed: 01/30/18							
Lead	0.559	0.50	mg/Kg wet	0.497		112		80-120			
Matrix Spike (B195354-MS1)	**Source: 18A0655-01**			Prepared: 01/24/18 Analyzed: 01/29/18							
Antimony	11.0	1.9	mg/Kg dry	19.4	1.34	**49.5**	*	75-125			MS-07A
Arsenic	16.6	1.9	mg/Kg dry	19.4	ND	85.5		75-125			
Barium	135	1.9	mg/Kg dry	19.4	119	81.8		75-125			
Beryllium	18.2	0.19	mg/Kg dry	19.4	0.390	91.4		75-125			
Cadmium	18.8	0.19	mg/Kg dry	19.4	0.127	96.1		75-125			
Chromium	41.0	0.39	mg/Kg dry	19.4	23.1	92.1		75-125			
Copper	72.3	0.39	mg/Kg dry	38.9	36.4	92.2		75-125			
Lead	29.8	0.58	mg/Kg dry	19.4	12.3	90.3		75-125			
Nickel	37.8	0.39	mg/Kg dry	19.4	21.5	84.0		75-125			
Selenium	16.7	3.9	mg/Kg dry	19.4	ND	85.8		75-125			
Silver	16.3	0.39	mg/Kg dry	19.4	ND	83.8		75-125			
Thallium	17.0	1.9	mg/Kg dry	19.4	ND	87.3		75-125			
Vanadium	57.8	0.78	mg/Kg dry	19.4	37.7	104		75-125			
Zinc	88.7	0.78	mg/Kg dry	38.9	53.1	91.4		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195354 - SW-846 3050B											
Matrix Spike (B195354-MS2)	**Source: 18A0655-14**			Prepared: 01/24/18	Analyzed: 01/29/18						
Antimony	11.8	2.0	mg/Kg dry	19.6	ND	**60.2**	*	75-125			MS-07A
Arsenic	17.9	2.0	mg/Kg dry	19.6	ND	91.1		75-125			
Barium	111	2.0	mg/Kg dry	19.6	89.6	108		75-125			
Beryllium	19.4	0.20	mg/Kg dry	19.6	0.310	97.1		75-125			
Cadmium	19.1	0.20	mg/Kg dry	19.6	0.210	95.9		75-125			
Chromium	39.7	0.39	mg/Kg dry	19.6	20.3	98.8		75-125			
Copper	70.5	0.39	mg/Kg dry	39.3	31.8	98.7		75-125			
Lead	36.4	0.59	mg/Kg dry	19.6	19.5	86.4		75-125			
Nickel	36.4	0.39	mg/Kg dry	19.6	17.5	96.1		75-125			
Selenium	17.8	3.9	mg/Kg dry	19.6	ND	90.8		75-125			
Silver	17.5	0.39	mg/Kg dry	19.6	ND	88.9		75-125			
Thallium	19.6	2.0	mg/Kg dry	19.6	ND	100		75-125			
Vanadium	60.5	0.79	mg/Kg dry	19.6	45.2	78.2		75-125			
Zinc	97.3	0.79	mg/Kg dry	39.3	65.2	81.6		75-125			
Matrix Spike Dup (B195354-MSD1)	**Source: 18A0655-01**			Prepared: 01/24/18	Analyzed: 01/29/18						
Antimony	10.4	1.9	mg/Kg dry	19.4	1.34	**46.8**	*	75-125	4.73	35	MS-07A
Arsenic	16.7	1.9	mg/Kg dry	19.4	ND	85.8		75-125	0.367	35	
Barium	138	1.9	mg/Kg dry	19.4	119	93.6		75-125	1.69	35	
Beryllium	18.6	0.19	mg/Kg dry	19.4	0.390	93.7		75-125	2.54	35	
Cadmium	18.5	0.19	mg/Kg dry	19.4	0.127	94.2		75-125	1.93	35	
Chromium	40.9	0.39	mg/Kg dry	19.4	23.1	91.8		75-125	0.149	35	
Copper	76.3	0.39	mg/Kg dry	38.9	36.4	103		75-125	5.44	35	
Lead	28.5	0.58	mg/Kg dry	19.4	12.3	83.3		75-125	4.65	35	
Nickel	38.4	0.39	mg/Kg dry	19.4	21.5	86.7		75-125	1.39	35	
Selenium	16.5	3.9	mg/Kg dry	19.4	ND	84.7		75-125	1.32	35	
Silver	16.2	0.39	mg/Kg dry	19.4	ND	83.5		75-125	0.260	35	
Thallium	16.0	1.9	mg/Kg dry	19.4	ND	82.5		75-125	5.64	35	
Vanadium	56.8	0.78	mg/Kg dry	19.4	37.7	98.5		75-125	1.75	35	
Zinc	88.4	0.78	mg/Kg dry	38.9	53.1	90.6		75-125	0.315	35	
Matrix Spike Dup (B195354-MSD2)	**Source: 18A0655-14**			Prepared: 01/24/18	Analyzed: 01/29/18						
Antimony	11.2	1.9	mg/Kg dry	19.4	ND	**57.9**	*	75-125	4.97	35	MS-07A
Arsenic	18.0	1.9	mg/Kg dry	19.4	ND	92.7		75-125	0.463	35	
Barium	103	1.9	mg/Kg dry	19.4	89.6	**69.5**	*	75-125	7.18	35	MS-19
Beryllium	19.0	0.19	mg/Kg dry	19.4	0.310	96.5		75-125	1.84	35	
Cadmium	18.7	0.19	mg/Kg dry	19.4	0.210	95.4		75-125	1.71	35	
Chromium	37.6	0.39	mg/Kg dry	19.4	20.3	88.8		75-125	5.60	35	
Copper	68.9	0.39	mg/Kg dry	38.8	31.8	95.8		75-125	2.30	35	
Lead	36.4	0.58	mg/Kg dry	19.4	19.5	87.1		75-125	0.178	35	
Nickel	34.0	0.39	mg/Kg dry	19.4	17.5	84.8		75-125	6.88	35	
Selenium	16.6	3.9	mg/Kg dry	19.4	ND	85.5		75-125	7.19	35	
Silver	17.2	0.39	mg/Kg dry	19.4	ND	88.5		75-125	1.64	35	
Thallium	19.7	1.9	mg/Kg dry	19.4	ND	101		75-125	0.145	35	
Vanadium	59.1	0.78	mg/Kg dry	19.4	45.2	**71.7**	*	75-125	2.42	35	MS-22
Zinc	96.3	0.78	mg/Kg dry	38.8	65.2	80.1		75-125	1.01	35	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195356 - SW-846 3005A											
Blank (B195356-BLK1)				Prepared & Analyzed: 01/23/18							
Antimony	ND	5.0	µg/L								
Arsenic	ND	2.0	µg/L								
Barium	ND	50	µg/L								
Beryllium	ND	2.0	µg/L								
Cadmium	ND	2.5	µg/L								
Chromium	ND	5.0	µg/L								
Copper	ND	25	µg/L								
Lead	ND	5.0	µg/L								
Nickel	ND	25	µg/L								
Selenium	ND	25	µg/L								
Silver	ND	2.5	µg/L								
Thallium	ND	1.0	µg/L								
Vanadium	ND	25	µg/L								
Zinc	ND	50	µg/L								
LCS (B195356-BS1)				Prepared & Analyzed: 01/23/18							
Antimony	561	10	µg/L	500		112		80-120			
Arsenic	569	4.0	µg/L	500		114		80-120			
Barium	532	100	µg/L	500		106		80-120			
Beryllium	594	4.0	µg/L	500		119		80-120			
Cadmium	568	5.0	µg/L	500		114		80-120			
Chromium	517	10	µg/L	500		103		80-120			
Copper	1040	50	µg/L	1000		104		80-120			
Lead	559	10	µg/L	500		112		80-120			
Nickel	519	50	µg/L	500		104		80-120			
Selenium	593	50	µg/L	500		119		80-120			
Silver	539	5.0	µg/L	500		108		80-120			
Thallium	550	2.0	µg/L	500		110		80-120			
Vanadium	526	50	µg/L	500		105		80-120			
Zinc	1220	100	µg/L	1000		**122**	*	80-120			L-02
LCS Dup (B195356-BSD1)				Prepared & Analyzed: 01/23/18							
Antimony	596	10	µg/L	500		119		80-120	5.97	20	
Arsenic	601	4.0	µg/L	500		120		80-120	5.37	20	
Barium	566	100	µg/L	500		113		80-120	6.15	20	
Beryllium	619	4.0	µg/L	500		**124**	*	80-120	4.04	20	L-07
Cadmium	601	5.0	µg/L	500		120		80-120	5.66	20	
Chromium	546	10	µg/L	500		109		80-120	5.44	20	
Copper	1100	50	µg/L	1000		110		80-120	6.30	20	
Lead	579	10	µg/L	500		116		80-120	3.54	20	
Nickel	546	50	µg/L	500		109		80-120	5.19	20	
Selenium	631	50	µg/L	500		**126**	*	80-120	6.14	20	L-07
Silver	571	5.0	µg/L	500		114		80-120	5.78	20	
Thallium	571	2.0	µg/L	500		114		80-120	3.69	20	
Vanadium	551	50	µg/L	500		110		80-120	4.69	20	
Zinc	1280	100	µg/L	1000		**128**	*	80-120	4.80	20	L-02

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195373 - SW-846 7470A Prep										
Blank (B195373-BLK1)				Prepared & Analyzed: 01/23/18						
Mercury	ND	0.00010	mg/L							
LCS (B195373-BS1)				Prepared & Analyzed: 01/23/18						
Mercury	0.00191	0.00010	mg/L	0.00200		95.5	80-120			
LCS Dup (B195373-BSD1)				Prepared & Analyzed: 01/23/18						
Mercury	0.00192	0.00010	mg/L	0.00200		96.1	80-120	0.708	20	
Duplicate (B195373-DUP1)		**Source: 18A0655-39**		Prepared & Analyzed: 01/23/18						
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B195373-MS1)		**Source: 18A0655-39**		Prepared & Analyzed: 01/23/18						
Mercury	0.00181	0.00010	mg/L	0.00200	ND	90.4	75-125			
Batch B195446 - SW-846 3050B										
Blank (B195446-BLK1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B195446-BS1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Antimony	65.1	5.1	mg/Kg wet	65.1		100	3.8-212			
Arsenic	150	5.1	mg/Kg wet	147		102	83-117			
Barium	326	5.1	mg/Kg wet	314		104	82.2-117.8			
Beryllium	56.8	0.51	mg/Kg wet	53.4		106	82.8-117.2			
Cadmium	198	0.51	mg/Kg wet	193		102	82.4-117.6			
Chromium	86.4	1.0	mg/Kg wet	82.6		105	81.8-118.2			
Copper	191	1.0	mg/Kg wet	171		112	83.6-116.4			
Lead	96.2	1.5	mg/Kg wet	92.3		104	82.8-117			
Nickel	141	1.0	mg/Kg wet	137		103	82.5-118.2			
Selenium	188	10	mg/Kg wet	187		101	79.1-121.4			
Silver	40.9	1.0	mg/Kg wet	40.7		101	79.6-120.4			
Thallium	152	5.1	mg/Kg wet	153		99.4	81-119			
Vanadium	86.4	2.0	mg/Kg wet	86.6		99.8	77.6-122.4			
Zinc	196	2.0	mg/Kg wet	189		104	79.9-120.1			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195446 - SW-846 3050B											
LCS Dup (B195446-BSD1)				Prepared: 01/24/18 Analyzed: 01/25/18							
Antimony	66.0	4.8	mg/Kg wet	65.1		101		3.8-212	1.39	30	
Arsenic	150	4.8	mg/Kg wet	147		102		83-117	0.262	30	
Barium	325	4.8	mg/Kg wet	314		103		82.2-117.8	0.219	30	
Beryllium	57.0	0.48	mg/Kg wet	53.4		107		82.8-117.2	0.361	30	
Cadmium	199	0.48	mg/Kg wet	193		103		82.4-117.6	0.861	30	
Chromium	86.4	0.96	mg/Kg wet	82.6		105		81.8-118.2	0.0505	30	
Copper	190	0.96	mg/Kg wet	171		111		83.6-116.4	0.533	30	
Lead	105	1.4	mg/Kg wet	92.3		114		82.8-117	8.67	30	
Nickel	140	0.96	mg/Kg wet	137		102		82.5-118.2	1.17	30	
Selenium	189	9.6	mg/Kg wet	187		101		79.1-121.4	0.355	30	
Silver	40.9	0.96	mg/Kg wet	40.7		101		79.6-120.4	0.0673	30	
Thallium	159	4.8	mg/Kg wet	153		104		81-119	4.15	30	
Vanadium	87.1	1.9	mg/Kg wet	86.6		101		77.6-122.4	0.753	30	
Zinc	193	1.9	mg/Kg wet	189		102		79.9-120.1	1.64	30	
Duplicate (B195446-DUP1)	**Source: 18A0655-28**			Prepared: 01/24/18 Analyzed: 01/29/18							
Antimony	ND	2.0	mg/Kg dry		ND				NC	35	
Arsenic	ND	2.0	mg/Kg dry		ND				NC	35	
Barium	72.1	2.0	mg/Kg dry		73.1				1.33	35	
Beryllium	ND	0.20	mg/Kg dry		ND				NC	35	
Cadmium	0.407	0.20	mg/Kg dry		0.401				1.34	35	
Chromium	14.0	0.40	mg/Kg dry		14.4				2.63	35	
Copper	23.8	0.40	mg/Kg dry		26.6				11.1	35	
Lead	17.7	0.60	mg/Kg dry		19.0				7.36	35	
Nickel	11.2	0.40	mg/Kg dry		12.2				8.80	35	
Selenium	ND	4.0	mg/Kg dry		ND				NC	35	
Silver	ND	0.40	mg/Kg dry		ND				NC	35	
Thallium	ND	2.0	mg/Kg dry		ND				NC	35	
Vanadium	35.3	0.79	mg/Kg dry		32.9				7.23	35	
Zinc	61.9	0.79	mg/Kg dry		58.5				5.51	35	
MRL Check (B195446-MRL1)				Prepared: 01/24/18 Analyzed: 01/25/18							
Lead	0.555	0.50	mg/Kg wet	0.497		112		80-120			
Matrix Spike (B195446-MS1)	**Source: 18A0655-28**			Prepared: 01/24/18 Analyzed: 01/25/18							
Antimony	9.35	2.0	mg/Kg dry	19.7	1.61	**39.2**	*	75-125			MS-07A
Arsenic	17.5	2.0	mg/Kg dry	19.7	ND	88.8		75-125			
Barium	102	2.0	mg/Kg dry	19.7	73.1	**146**	*	75-125			MS-12
Beryllium	19.0	0.20	mg/Kg dry	19.7	ND	96.5		75-125			
Cadmium	19.2	0.20	mg/Kg dry	19.7	0.401	95.4		75-125			
Chromium	36.9	0.39	mg/Kg dry	19.7	14.4	114		75-125			
Copper	70.4	0.39	mg/Kg dry	39.4	26.6	111		75-125			
Lead	40.4	0.59	mg/Kg dry	19.7	19.0	108		75-125			
Nickel	34.0	0.39	mg/Kg dry	19.7	12.2	111		75-125			
Selenium	16.4	3.9	mg/Kg dry	19.7	ND	83.3		75-125			
Silver	17.7	0.39	mg/Kg dry	19.7	ND	89.7		75-125			
Thallium	20.8	2.0	mg/Kg dry	19.7	ND	105		75-125			
Vanadium	52.0	0.79	mg/Kg dry	19.7	32.9	97.0		75-125			
Zinc	110	0.79	mg/Kg dry	39.4	58.5	**130**	*	75-125			MS-22

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B195446 - SW-846 3050B												
Matrix Spike (B195446-MS2)	**Source: 18A0655-32**			Prepared: 01/24/18	Analyzed: 01/29/18							
Antimony	9.10	1.9	mg/Kg dry	19.1	ND	**47.8**	*	75-125				MS-07A
Arsenic	14.7	1.9	mg/Kg dry	19.1	ND	76.9		75-125				
Barium	122	1.9	mg/Kg dry	19.1	71.9	**264**	*	75-125				MS-23
Beryllium	17.0	0.19	mg/Kg dry	19.1	0.210	88.3		75-125				
Cadmium	16.9	0.19	mg/Kg dry	19.1	0.176	87.9		75-125				
Chromium	41.2	0.38	mg/Kg dry	19.1	24.0	89.9		75-125				
Copper	64.3	0.38	mg/Kg dry	38.1	33.6	80.4		75-125				
Lead	29.8	0.57	mg/Kg dry	19.1	15.8	**73.6**	*	75-125				MS-22
Nickel	36.1	0.38	mg/Kg dry	19.1	21.7	75.5		75-125				
Selenium	15.2	3.8	mg/Kg dry	19.1	ND	79.8		75-125				
Silver	14.9	0.38	mg/Kg dry	19.1	ND	77.9		75-125				
Thallium	16.4	1.9	mg/Kg dry	19.1	ND	85.9		75-125				
Vanadium	61.3	0.76	mg/Kg dry	19.1	41.0	107		75-125				
Zinc	92.1	0.76	mg/Kg dry	38.1	61.6	80.1		75-125				
Matrix Spike Dup (B195446-MSD1)	**Source: 18A0655-28**			Prepared: 01/24/18	Analyzed: 01/25/18							
Antimony	11.1	1.9	mg/Kg dry	19.5	1.61	**48.5**	*	75-125	16.9		35	MS-07A
Arsenic	15.9	1.9	mg/Kg dry	19.5	ND	81.5		75-125	9.67		35	
Barium	115	1.9	mg/Kg dry	19.5	73.1	**213**	*	75-125	11.7		35	MS-12
Beryllium	18.7	0.19	mg/Kg dry	19.5	ND	96.1		75-125	1.51		35	
Cadmium	19.2	0.19	mg/Kg dry	19.5	0.401	96.3		75-125	0.160		35	
Chromium	36.5	0.39	mg/Kg dry	19.5	14.4	114		75-125	1.05		35	
Copper	82.9	0.39	mg/Kg dry	39.0	26.6	**144**	*	75-125	16.3		35	MS-22
Lead	42.7	0.58	mg/Kg dry	19.5	19.0	121		75-125	5.41		35	
Nickel	34.1	0.39	mg/Kg dry	19.5	12.2	112		75-125	0.307		35	
Selenium	16.7	3.9	mg/Kg dry	19.5	ND	85.7		75-125	1.74		35	
Silver	16.6	0.39	mg/Kg dry	19.5	ND	85.2		75-125	6.32		35	
Thallium	17.0	1.9	mg/Kg dry	19.5	ND	87.0		75-125	20.1		35	
Vanadium	78.4	0.78	mg/Kg dry	19.5	32.9	**233**	*	75-125	**40.5**	*	35	MS-23
Zinc	105	0.78	mg/Kg dry	39.0	58.5	119		75-125	4.34		35	
Matrix Spike Dup (B195446-MSD2)	**Source: 18A0655-32**			Prepared: 01/24/18	Analyzed: 01/29/18							
Antimony	8.34	1.9	mg/Kg dry	19.1	ND	**43.6**	*	75-125	8.82		35	MS-07A
Arsenic	15.6	1.9	mg/Kg dry	19.1	ND	81.4		75-125	6.06		35	
Barium	95.7	1.9	mg/Kg dry	19.1	71.9	124		75-125	24.4		35	
Beryllium	17.7	0.19	mg/Kg dry	19.1	0.210	91.2		75-125	3.51		35	
Cadmium	17.5	0.19	mg/Kg dry	19.1	0.176	90.6		75-125	3.34		35	
Chromium	40.8	0.38	mg/Kg dry	19.1	24.0	87.7		75-125	0.883		35	
Copper	68.7	0.38	mg/Kg dry	38.3	33.6	91.6		75-125	6.65		35	
Lead	33.6	0.57	mg/Kg dry	19.1	15.8	93.0		75-125	11.9		35	
Nickel	37.1	0.38	mg/Kg dry	19.1	21.7	80.7		75-125	2.83		35	
Selenium	14.6	3.8	mg/Kg dry	19.1	ND	76.4		75-125	3.98		35	
Silver	15.6	0.38	mg/Kg dry	19.1	ND	81.4		75-125	4.74		35	
Thallium	14.8	1.9	mg/Kg dry	19.1	ND	77.3		75-125	10.2		35	
Vanadium	56.6	0.77	mg/Kg dry	19.1	41.0	81.4		75-125	8.03		35	
Zinc	93.8	0.77	mg/Kg dry	38.3	61.6	84.2		75-125	1.81		35	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195447 - SW-846 7471										
Blank (B195447-BLK1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B195447-BS1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	10.1	1.9	mg/Kg wet	9.36		107	73.7-126.3			
LCS Dup (B195447-BSD1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	10.5	1.9	mg/Kg wet	9.36		112	73.7-126.3	4.30	30	
Duplicate (B195447-DUP1)		**Source: 18A0655-28**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	ND	0.031	mg/Kg dry		ND			NC	35	
Matrix Spike (B195447-MS1)		**Source: 18A0655-28**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.212	0.030	mg/Kg dry	0.200	0.0263	93.1	75-125			
Matrix Spike (B195447-MS2)		**Source: 18A0655-32**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.219	0.029	mg/Kg dry	0.195	0.0301	96.7	75-125			
Matrix Spike Dup (B195447-MSD1)		**Source: 18A0655-28**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.216	0.030	mg/Kg dry	0.197	0.0263	96.2	75-125	1.60	35	
Matrix Spike Dup (B195447-MSD2)		**Source: 18A0655-32**		Prepared: 01/24/18 Analyzed: 01/25/18						
Mercury	0.214	0.029	mg/Kg dry	0.193	0.0301	95.2	75-125	2.43	35	
Batch B195637 - SW-846 3051										
Blank (B195637-BLK1)				Prepared: 01/26/18 Analyzed: 01/29/18						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B195637-BS1)				Prepared: 01/26/18 Analyzed: 01/29/18						
Antimony	108	5.1	mg/Kg wet	65.1		166	3.8-212			
Arsenic	139	5.1	mg/Kg wet	147		94.5	83-117			
Barium	268	5.1	mg/Kg wet	314		85.5	82.2-117.8			
Beryllium	50.2	0.51	mg/Kg wet	53.4		93.9	82.8-117.2			
Cadmium	173	0.51	mg/Kg wet	193		89.4	82.4-117.6			
Chromium	74.2	1.0	mg/Kg wet	82.6		89.8	81.8-118.2			
Copper	157	1.0	mg/Kg wet	171		92.0	83.6-116.4			
Lead	83.2	1.5	mg/Kg wet	92.3		90.2	82.8-117			
Nickel	127	1.0	mg/Kg wet	137		92.6	82.5-118.2			
Selenium	179	10	mg/Kg wet	187		95.5	79.1-121.4			
Silver	37.0	1.0	mg/Kg wet	40.7		90.9	79.6-120.4			
Thallium	131	5.1	mg/Kg wet	153		85.3	81-119			
Vanadium	77.6	2.0	mg/Kg wet	86.6		89.6	77.6-122.4			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195637 - SW-846 3051											
LCS (B195637-BS1)				Prepared: 01/26/18 Analyzed: 01/29/18							
Zinc	177	2.0	mg/Kg wet	189		93.6		79.9-120.1			
LCS Dup (B195637-BSD1)				Prepared: 01/26/18 Analyzed: 01/29/18							
Antimony	109	4.8	mg/Kg wet	65.1		167		3.8-212	0.972	30	
Arsenic	137	4.8	mg/Kg wet	147		93.0		83-117	1.59	30	
Barium	276	4.8	mg/Kg wet	314		87.9		82.2-117.8	2.78	30	
Beryllium	49.9	0.48	mg/Kg wet	53.4		93.5		82.8-117.2	0.447	30	
Cadmium	174	0.48	mg/Kg wet	193		90.1		82.4-117.6	0.780	30	
Chromium	76.6	0.96	mg/Kg wet	82.6		92.7		81.8-118.2	3.24	30	
Copper	159	0.96	mg/Kg wet	171		93.0		83.6-116.4	1.07	30	
Lead	84.0	1.4	mg/Kg wet	92.3		91.1		82.8-117	0.985	30	
Nickel	127	0.96	mg/Kg wet	137		92.4		82.5-118.2	0.236	30	
Selenium	179	9.6	mg/Kg wet	187		95.8		79.1-121.4	0.327	30	
Silver	36.4	0.96	mg/Kg wet	40.7		89.5		79.6-120.4	1.51	30	
Thallium	133	4.8	mg/Kg wet	153		86.7		81-119	1.65	30	
Vanadium	79.9	1.9	mg/Kg wet	86.6		92.3		77.6-122.4	2.91	30	
Zinc	180	1.9	mg/Kg wet	189		95.1		79.9-120.1	1.58	30	
Duplicate (B195637-DUP1)		**Source: 18A0655-02RE1**		Prepared: 01/26/18 Analyzed: 01/29/18							
Antimony	ND	1.9	mg/Kg dry		ND				NC	35	
Arsenic	ND	1.9	mg/Kg dry		ND				NC	35	
Barium	79.0	1.9	mg/Kg dry		82.3				4.19	35	
Beryllium	0.489	0.19	mg/Kg dry		0.431				12.7	35	
Cadmium	ND	0.19	mg/Kg dry		ND				NC	35	
Chromium	21.5	0.37	mg/Kg dry		19.9				8.03	35	
Copper	39.3	0.37	mg/Kg dry		36.0				8.76	35	
Lead	9.56	0.56	mg/Kg dry		9.65				0.929	35	
Nickel	20.1	0.37	mg/Kg dry		19.3				3.89	35	
Selenium	ND	3.7	mg/Kg dry		ND				NC	35	
Silver	ND	0.37	mg/Kg dry		ND				NC	35	
Thallium	ND	1.9	mg/Kg dry		ND				NC	35	
Vanadium	35.2	0.74	mg/Kg dry		35.1				0.380	35	
Zinc	56.7	0.74	mg/Kg dry		50.1				12.5	35	
MRL Check (B195637-MRL1)				Prepared: 01/26/18 Analyzed: 01/31/18							
Lead	0.537	0.49	mg/Kg wet	0.491		110		80-120			
Matrix Spike (B195637-MS1)		**Source: 18A0655-02RE1**		Prepared: 01/26/18 Analyzed: 01/29/18							
Antimony	17.5	1.8	mg/Kg dry	18.2	ND	95.8		75-125			
Arsenic	14.7	1.8	mg/Kg dry	18.2	ND	80.5		75-125			
Barium	91.5	1.8	mg/Kg dry	18.2	82.3	**50.1**	*	75-125			MS-19
Beryllium	16.4	0.18	mg/Kg dry	18.2	0.431	87.3		75-125			
Cadmium	16.2	0.18	mg/Kg dry	18.2	0.140	88.0		75-125			
Chromium	36.8	0.36	mg/Kg dry	18.2	19.9	92.6		75-125			
Copper	67.2	0.36	mg/Kg dry	36.5	36.0	85.4		75-125			
Lead	24.7	0.55	mg/Kg dry	18.2	9.65	82.7		75-125			
Nickel	36.2	0.36	mg/Kg dry	18.2	19.3	92.6		75-125			
Selenium	12.9	3.6	mg/Kg dry	18.2	ND	**70.9**	*	75-125			MS-07
Silver	14.5	0.36	mg/Kg dry	18.2	ND	79.8		75-125			
Thallium	13.9	1.8	mg/Kg dry	18.2	ND	76.2		75-125			
Vanadium	49.9	0.73	mg/Kg dry	18.2	35.1	81.0		75-125			
Zinc	83.2	0.73	mg/Kg dry	36.5	50.1	90.9		75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195355 - % Solids										
Duplicate (B195355-DUP1)	**Source: 18A0655-01**			Prepared: 01/23/18 Analyzed: 01/24/18						
% Solids	85.6		% Wt		86.1			0.620	20	
Duplicate (B195355-DUP2)	**Source: 18A0655-14**			Prepared: 01/23/18 Analyzed: 01/24/18						
% Solids	84.7		% Wt		85.2			0.619	20	
Duplicate (B195355-DUP3)	**Source: 18A0655-20**			Prepared: 01/23/18 Analyzed: 01/24/18						
% Solids	89.4		% Wt		88.9			0.539	20	
Duplicate (B195355-DUP4)	**Source: 18A0655-28**			Prepared: 01/23/18 Analyzed: 01/24/18						
% Solids	85.1		% Wt		84.2			1.00	20	
Duplicate (B195355-DUP5)	**Source: 18A0655-32**			Prepared: 01/23/18 Analyzed: 01/24/18						
% Solids	87.7		% Wt		87.4			0.341	20	
Duplicate (B195355-DUP6)	**Source: 18A0655-37**			Prepared: 01/23/18 Analyzed: 01/24/18						
% Solids	85.4		% Wt		85.3			0.216	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-199A (0-0.5)

Lab Sample ID: 18A0655-09 Date(s) Analyzed: 01/26/2018 01/26/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.13	16.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-189A (0-0.5)

Lab Sample ID: 18A0655-14 Date(s) Analyzed: 01/26/2018 01/26/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.57	
	2	0.000	-0.030	0.030	0.58	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-189B (3-4)

Lab Sample ID: 18A0655-15 Date(s) Analyzed: 01/26/2018 01/26/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.36	
	2	0.000	-0.030	0.030	0.36	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-190A (0-0.5)

Lab Sample ID: 18A0655-19 Date(s) Analyzed: 01/26/2018 01/26/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-188A (0-0.5)

Lab Sample ID: 18A0655-28 Date(s) Analyzed: 01/26/2018 01/26/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4
Aroclor-1260	1	0.000	-0.030	0.030	0.49	
	2	0.000	-0.030	0.030	0.51	2.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-188B (3-4)

Lab Sample ID: 18A0655-29 Date(s) Analyzed: 01/26/2018 01/26/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.43	
	2	0.000	-0.030	0.030	0.45	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-190C (7-8)

Lab Sample ID: 18A0655-31 Date(s) Analyzed: 01/28/2018 01/28/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.11	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-190D (10-12)

Lab Sample ID: 18A0655-32 Date(s) Analyzed: 01/29/2018 01/29/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.3	
	2	0.000	-0.030	0.030	1.5	14.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Decon Water

Lab Sample ID: 18A0655-42 Date(s) Analyzed: 01/26/2018 01/26/2018

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	2.3	
	2	0.000	0.000	0.000	2.3	0.0
Aroclor-1260	1	0.000	0.000	0.000	2.1	
	2	0.000	0.000	0.000	2.1	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-18	Surrogate recovery is outside of control limits, matrix interference suspected. Insufficient sample available for reanalysis.
S-25	Surrogate recovery is outside of control limits due to suspected matrix interference. Samples of a clay-like matrix historically have exhibited low surrogate recovery.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020A-B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
o-Xylene	CT,NH,NY,ME
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

con-test ANALYTICAL LABORATORY

18A06055

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http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name: Weston & Sampson
Address: 273 Dividend Road, Rocky Hill, CT 06067
Phone: 1-800-SAMPSON
Project Name: Berlin Settlers Basin
Project Location: 107 Selden St Berlin CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabriella Pagliuca & Chris Berthiaume

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Stnd 5-day

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: Pagliuca@wseinc.com
CLP Like Data Pkg Required: ☐
Email To: Beelerm@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCBs	SVOCs	CT ETPH	RSR 15 Metals	VOCs
01	B-191A (0-0.5)	01/19/18	0850		X	S	U		X	X	X	
02	B-191B (10-12)		0855						X	X	X	X
03	B-191C (13-14)		0900								X	
04	B-200A (0-0.5)		1102					X	X	X	X	
05	B-200B (3-4)		1104					X				
06	B-200C (5-7)		1106					X	X	X	X	X
07	B-200D (7-9)		1108					X				
08	B-200E (13-14)		1110								X	
09	B-199A (0-0.5)		1140					X				
10	B-199B (3-4)	↓	1142		↓	↓	↓	X				

ANALYSIS REQUESTED

# of Containers	1		1	1	3
[2] Preservation Code	I		I	I	I,O,M
[3] Container Code	A		A	A	V

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)
~~DI H2O~~ MP

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
DI H2O

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Additional soil has been submitted for possible reactivation to analyze for SPLP after results have been received.
Please do MS/MSD analysis on B-191A (0-0.5) for all analysis marked (SVOCs, Metals, ETPH)

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time: 1/22/18 10:50
Relinquished by: (signature)		Date/Time: 1/22/18 12:35
Received by: (signature)	1.22.18	Date/Time: 12:35
Relinquished by: (signature)	4.1, 3.8, 4.2	Date/Time: 3.9
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT GA PAL
RES DEC I/C DEC
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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18A0655

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name: Weston & Sampson
Address: 273 Dividend Road, Rocky Hill CT 06067
Phone: 1-800-SAMPSON
Project Name: Berlin Settling Basin
Project Location: 107 Selden St Berlin CT
Project Number:
Project Manager: Malcolm Beller
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beller
Sampled By: Gabriella Pagliuca & Chris Berthiaume

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Std 5-day

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

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ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCBs	SVOCs	CT ETPH	RSR 15 Metals	VOCs	PAHs							# of Containers / Preservation Code / Container Code
								1		1	1	3								# of Containers
								I		I	I	I or V								[2] Preservation Code
								A		A	A	V								[3] Container Code
11	B-188D (10-11)	1/19/18	1455		X	S	U				X									
12	B-188E (13-15)		1500					X	X	X	X	X								
13	B-188F (12-13)		1502							X			X							
14	B-189A (0-0.5)		1530					X	X	X	X									
15	B-189B (3-4)		1532					X												
16	B-189C (7-8)		1534					X												
17	B-189D (10-12)		1536					X	X	X	X	X								
18	B-189E (13-14)		1538								X									
19	B-190A (0-0.5)		1620					X	X	X	X									
20	B-190B (3-4)	↓	1624		↓	↓	↓	X												

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) DI H2O

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Additional soil has been submitted for possible reactivation to analyze for SPLP after results have been reviewed.
Please do MS/MSD on B-189A (0-0.5) for metals & on B-190B (3-4) for PCBs.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	
Received by: (signature) Joe Gro	Date/Time: 1/22/18 10:50	
Relinquished by: (signature) Joe Gro	Date/Time: 1/22/18 12:35	
Received by: (signature)	Date/Time: 1.22.18 12:35	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA:
CT: GA PMC
RES DEC 1/GA EC
Other:

Special Requirements
☐ MA MCP Required
☐ MCP Certification Form Required
☒ CT RCP Required
☐ RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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Fax: 413-525-6405
Email: info@contestlabs.com

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name: Weston & Sampson
Address: 273 Dividend Road, Rocky Hill, CT 06067
Phone: 1-800-SAMPSON
Project Name: Berlin Settling Basin
Project Location: 107 Selden St Berlin, CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabriella Pavlicca & Chris Berthiaume

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Std 5-day

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pavlicca@wseinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCBs	SVOCs	CT ETPH	RSR IS Metals	VOCs	# of Containers	Preservation Code	Container Code
21	B-199C (7-8)	1/19/18	1144		X	S	U	X					1	I	A
22	B-198A (0-0.5)		1200					X					1	I	A
23	B-198 B(3-4)		1202					X					1	I	A
24	B-198 C (7-8)		1204					X					1	I	A
25	B-194A (0-0.50)		1240						X	X	X		1	I	A
26	B-194 B (10-12)		1242						X	X	X	X	1	I	A
27	B-194 C (13-14)		1244								X		1	I	A
28	B-188A (0-0.5)		1452					X	X	X	X		1	I	A
29	B-188B (3-4)		1454					X					1	I	A
30	B-188C (7-8)		1456					X					1	I	A

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)
DI H2O for VOC

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
DI H2O

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Additional soil has been submitted for possible reactivation to analyze for SPLP after results have been reviewed.
Please do MS/MSD for B-188A for (PCBs, ETPH, SVOCs, Metals). (0-0.5)

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time:
Received by: (signature)	Joe Cote	1/22/18 Date/Time: 10:50
Relinquished by: (signature)	Joe Cote	1/22/18 Date/Time: 12:35
Received by: (signature)		1.22.18 Date/Time: 12:35
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT GA PMC
RES DEC ITC DEC
Other

Special Requirements
☐ MA MCP Required
☐ MCP Certification Form Required
☒ CT RCP Required
☐ RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

con-test ANALYTICAL LABORATORY

18A06055

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Email: info@contestlabs.com

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name: Weston & Sampson
Address: 273 Dingod Road Rocky Hill, CT 06067
Phone: 1-800-SAMPSON
Project Name: Berlin Settling Basin
Project Location: 107 Selden St, Berlin CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabrielle Pabian & Chris Berthiaume

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Stnd 5-day

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: paylwray@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCBs	SVOCs	CT ETPH	RSR 15 Metals	VOCs
31	B-190 C(7-8)	1/19/18	1624		X	S	U	X				
32	B-190D (10-12)	1/19/18	1626		X	S	U	X	X	X	X	X
33	B-190E (13-14)	1/19/18	1628		X	S	U				X	
34	DUP-3	↓	—		↓	↓	↓		X	X		X
35	DUP-4		—								X	
36	DUP-5		—					X	X	X	X	
37	DUP-6		—					X				
38	DUP-7	↓	—		↓	↓	↓				X	

| | | | | | | | | | | | |

con-test ANALYTICAL LABORATORY

18A06855

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name: Weston & Sampson
Address: 273 Dividend Road, Rocky Hill CT 06067
Phone: 1-800 SAMPSON
Project Name: Berlin Settling Basin
Project Location: 107 Selden St Berlin CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabriella Pagliuca & Chris Bertniaux

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Std 5-day

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pagliucag@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCBs	SVOCs	Ext ETPH	RSR 15 Metals	VOCs	# of Containers
								1	1	1	1	3	# of Containers
								I	I	I	I,N	I,H	[2] Preservation Code
								A	A	A	P	V	[3] Container Code
39	EB-011918	1/19/18	1750		X	O	U	X	X	X	X	X	
40	EB-011818	1/19/18	1700		X	O	U				X		
41	TB-011918	1/19/18	—									X	
42	Decon Water	1/19/18	1630		X	W	U	X					

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) purge/unpurged H2O
W = water

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time: 1/22/18 10:50
Relinquished by: (signature)		Date/Time: 1/22/18 12:35
Received by: (signature)		Date/Time: 1.22.18 12:35
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT GA PMC
RES DEC I/C DEC
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By PB Date 1.22.18 Time 12:35

How were the samples received? In Cooler T - 4 No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 4.1, 3.8, 4.2 + 3.9
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? F MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? T On COC? T
Do all samples have the proper pH? Acid T Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	7	1 Liter Plastic		16 oz Amb.	666
HCL-	5	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-	9	250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-	18	Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A012518.SEC\A0125007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/25/18
Data File Name	A0125007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	623035	641159	-3
c - 10	1.61	633149	641159	-1
c - 12	2.33	642092	641159	0
c - 14	3.00	656198	641159	2
c - 16	3.59	668500	641159	4
c - 18	4.19	670603	641159	5
o-Terphenyl	4.48	743692	641159	
c - 20	4.80	680626	641159	6
c - 22	5.31	680329	641159	6
c - 24	5.74	673237	641159	5
c - 26	6.13	670601	641159	5
c - 28	6.49	662841	641159	3
c - 30	6.82	653163	641159	2
c - 32	7.14	607623	641159	-5
c - 34	7.43	559105	641159	-13
c - 36	7.73	536277	641159	-16

* One compound allowed %D </= 50%

Samples
18A0655-34
18A0655-32
18A0655-26
18A0652-01@100X
18A0652-04@250X

D:\HPCHEM\1\DATA\A012518\A0125006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/25/18
Data File Name	A0125006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	486133	503731	-3
c - 10	1.61	496435	503731	-1
c - 12	2.34	505805	503731	0
c - 14	3.01	514766	503731	2
c - 16	3.62	524358	503731	4
c - 18	4.23	525957	503731	4
o-Terphenyl	4.52	575803	503731	
c - 20	4.84	527355	503731	5
c - 22	5.35	528457	503731	5
c - 24	5.79	522300	503731	4
c - 26	6.18	519320	503731	3
c - 28	6.54	519960	503731	3
c - 30	6.88	518260	503731	3
c - 32	7.19	484341	503731	-4
c - 34	7.48	453217	503731	-10
c - 36	7.81	429306	503731	-15

* One compound allowed %D </= 50%

Samples
18A0652-02@250X
18A0655-25@5X

D:\HPCHEM\1\DATA\A012418\A0124018.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124018.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	473716	492520	-4
c - 10	1.61	483594	492520	-2
c - 12	2.34	491609	492520	0
c - 14	3.01	500621	492520	2
c - 16	3.62	510785	492520	4
c - 18	4.23	514923	492520	5
o-Terphenyl	4.52	566390	492520	
c - 20	4.84	519117	492520	5
c - 22	5.35	521606	492520	6
c - 24	5.79	516514	492520	5
c - 26	6.18	511044	492520	4
c - 28	6.54	509782	492520	4
c - 30	6.88	507361	492520	3
c - 32	7.19	472532	492520	-4
c - 34	7.48	440291	492520	-11
c - 36	7.81	414308	492520	-16

* One compound allowed %D </= 50%

Samples
18A0652-03
18A0655-04
18A0655-12
18A0506-05@20X
18A0506-07@10X
18A0655-13@5X

D:\HPCHEM\1\DATA\A012418\A0124070.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124070.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	503436	522133	-4
c - 10	1.61	516895	522133	-1
c - 12	2.34	525915	522133	1
c - 14	3.01	535271	522133	3
c - 16	3.62	544425	522133	4
c - 18	4.23	547669	522133	5
o-Terphenyl	4.52	597386	522133	
c - 20	4.84	547217	522133	5
c - 22	5.35	545799	522133	5
c - 24	5.79	540488	522133	4
c - 26	6.18	536228	522133	3
c - 28	6.54	536980	522133	3
c - 30	6.88	536003	522133	3
c - 32	7.19	501106	522133	-4
c - 34	7.48	467505	522133	-10
c - 36	7.81	447057	522133	-14

* One compound allowed %D </= 50%

Samples
18A0655-19
18A0655-36
18A0655-28

D:\HPCHEM\1\DATA\A012418.SEC\A0124071.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124071.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	622719	643589	-3
c - 10	1.61	639149	643589	-1
c - 12	2.33	649677	643589	1
c - 14	2.99	659734	643589	3
c - 16	3.59	669274	643589	4
c - 18	4.19	671708	643589	4
o-Terphenyl	4.48	741334	643589	
c - 20	4.80	676540	643589	5
c - 22	5.30	676462	643589	5
c - 24	5.74	673424	643589	5
c - 26	6.13	668639	643589	4
c - 28	6.49	665404	643589	3
c - 30	6.82	660639	643589	3
c - 32	7.13	613360	643589	-5
c - 34	7.42	567571	643589	-12
c - 36	7.73	539534	643589	-16

* One compound allowed %D </= 50%

Samples
18A0554-27

D:\HPCHEM\1\DATA\A012418.SEC\A0124019.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124019.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	602681	627275	-4
c - 10	1.61	615537	627275	-2
c - 12	2.33	624447	627275	0
c - 14	3.00	635686	627275	1
c - 16	3.59	647761	627275	3
c - 18	4.19	652301	627275	4
o-Terphenyl	4.48	725363	627275	
c - 20	4.80	658332	627275	5
c - 22	5.30	662575	627275	6
c - 24	5.74	659139	627275	5
c - 26	6.13	655191	627275	4
c - 28	6.49	654877	627275	4
c - 30	6.82	649949	627275	4
c - 32	7.13	603305	627275	-4
c - 34	7.42	559959	627275	-11
c - 36	7.73	527388	627275	-16

* One compound allowed %D </= 50%

Samples
18A0655-02
18A0655-06
18A0655-17
18A0655-14
18A0655-01
18A0582-16
18A0506-02
18A0582-04
18A0582-15
18A0582-27
18A0554-04

D:\HPCHEM\1\DATA\A012618.SEC\A0126007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/26/18
Data File Name	A0126007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	604944	624115	-3
c - 10	1.61	613781	624115	-2
c - 12	2.33	619847	624115	-1
c - 14	3.00	633071	624115	1
c - 16	3.59	647089	624115	4
c - 18	4.20	652101	624115	4
o-Terphenyl	4.48	722581	624115	
c - 20	4.80	659054	624115	6
c - 22	5.31	661913	624115	6
c - 24	5.74	657720	624115	5
c - 26	6.13	653425	624115	5
c - 28	6.49	649711	624115	4
c - 30	6.82	642130	624115	3
c - 32	7.13	594168	624115	-5
c - 34	7.43	551396	624115	-12
c - 36	7.73	521382	624115	-16

* One compound allowed %D </= 50%

Samples
18A0574-04
18A0574-02
18A0574-03
18A0574-05
18A0574-07
18A0655-39
18A0665-01
18A0604-06
18A0604-07
18A0604-08
18A0604-09
18A0604-10
18A0604-11
18A0604-04
18A0604-12

D:\HPCHEM\1\DATA\A012618\A0126006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/26/18
Data File Name	A0126006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	474349	491464	-3
c - 10	1.61	483509	491464	-2
c - 12	2.34	491549	491464	0
c - 14	3.01	501162	491464	2
c - 16	3.62	510422	491464	4
c - 18	4.23	513043	491464	4
o-Terphenyl	4.52	562371	491464	
c - 20	4.84	515793	491464	5
c - 22	5.35	515398	491464	5
c - 24	5.79	510258	491464	4
c - 26	6.18	507100	491464	3
c - 28	6.54	508124	491464	3
c - 30	6.88	507620	491464	3
c - 32	7.19	475132	491464	-3
c - 34	7.48	444316	491464	-10
c - 36	7.81	414187	491464	-16

* One compound allowed %D </= 50%

Samples
18A0604-01
18A0530-03
18A0665-03
18A0604-13
18A0604-03
18A0604-05
18A0665-02
18A0696-01
18A0696-05

D:\HPCHEM\1\DATA\A012718.SEC\A0127007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/27/18
Data File Name	A0127007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	620466	639288	-3
c - 10	1.61	630768	639288	-1
c - 12	2.33	638960	639288	0
c - 14	3.00	646528	639288	1
c - 16	3.59	666161	639288	4
c - 18	4.19	671002	639288	5
o-Terphenyl	4.48	742840	639288	
c - 20	4.80	676766	639288	6
c - 22	5.30	679425	639288	6
c - 24	5.74	674041	639288	5
c - 26	6.13	667890	639288	4
c - 28	6.49	664273	639288	4
c - 30	6.82	655393	639288	3
c - 32	7.13	606862	639288	-5
c - 34	7.42	562993	639288	-12
c - 36	7.73	527784	639288	-17

* One compound allowed %D </= 50%

Samples
18A0611-01
18A0611-02
18A0611-03
18A0604-14

D:\HPCHEM\1\DATA\A012718\A0127006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/27/18
Data File Name	A0127006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	490687	515434	-5
c - 10	1.61	500937	515434	-3
c - 12	2.34	511350	515434	-1
c - 14	3.01	522597	515434	1
c - 16	3.62	533772	515434	4
c - 18	4.23	536864	515434	5
o-Terphenyl	4.52	593883	515434	
c - 20	4.84	543390	515434	5
c - 22	5.35	543753	515434	5
c - 24	5.78	538399	515434	4
c - 26	6.18	533825	515434	4
c - 28	6.54	533845	515434	4
c - 30	6.88	533277	515434	3
c - 32	7.19	500040	515434	-3
c - 34	7.48	466575	515434	-9
c - 36	7.81	440200	515434	-15

* One compound allowed %D </= 50%

Samples
18A0655-25RE1@5X
18A0696-05@20X
18A0696-04@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 107 Selden St., Berlin, CT

Project Number: 18A0655

Laboratory Sample ID(s):

18A0655-01 thru 18A0655-42

Sample Date(s):

01/18/2018,
01/19/2018

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 6020A-B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

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:  **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **01/31/18**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	11:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86582

Project ID: BERLIN SETTLING BASIN
Client ID: B233-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		12/17/19	JS	SW846-%Solid
Extraction for PCB	Completed				12/17/19	,T/B/KL./V	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/18/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	12/18/19	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	12/18/19	SC	30 - 150 %
% TCMX	60		%	10	12/18/19	SC	30 - 150 %
% TCMX (Confirmation)	62		%	10	12/18/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B233-1
Phoenix I.D.: CE86582

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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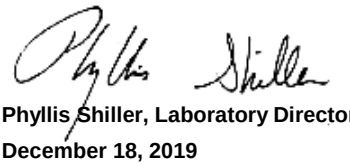

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	11:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86583

Project ID: BERLIN SETTLING BASIN
Client ID: B233-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/17/19	JS	SW846-%Solid
Extraction for PCB	Completed				12/17/19	T/B/KL/V	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	12/18/19	SC	30 - 150 %
% DCBP (Confirmation)	73		%	10	12/18/19	SC	30 - 150 %
% TCMX	58		%	10	12/18/19	SC	30 - 150 %
% TCMX (Confirmation)	59		%	10	12/18/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B233-2
Phoenix I.D.: CE86583

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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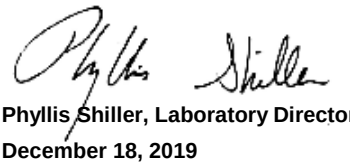

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December 18, 2019
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Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	11:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86584

Project ID: BERLIN SETTLING BASIN
Client ID: B233-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		12/17/19	JS	SW846-%Solid
Extraction for PCB	Completed				12/17/19	,T/B/KL./V	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/18/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	10	12/18/19	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	12/18/19	SC	30 - 150 %
% TCMX	57		%	10	12/18/19	SC	30 - 150 %
% TCMX (Confirmation)	52		%	10	12/18/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B233-3
Phoenix I.D.: CE86584

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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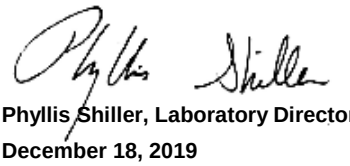

Phyllis Shiller, Laboratory Director
December 18, 2019
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Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	11:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86585

Project ID: BERLIN SETTLING BASIN
Client ID: B233-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		12/17/19	JS	SW846-%Solid
Extraction for PCB	Completed				12/17/19	T/B/KL/V	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/18/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	67		%	10	12/18/19	SC	30 - 150 %
% DCBP (Confirmation)	72		%	10	12/18/19	SC	30 - 150 %
% TCMX	52		%	10	12/18/19	SC	30 - 150 %
% TCMX (Confirmation)	52		%	10	12/18/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B233-4
Phoenix I.D.: CE86585

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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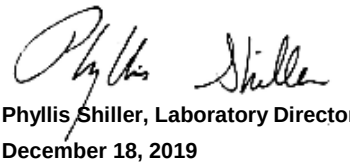

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	11:18
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86586

Project ID: BERLIN SETTLING BASIN
Client ID: B233-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		12/17/19	JS	SW846-%Solid
Extraction for PCB	Completed				12/17/19	T/B/KL/V	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	12/18/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	12/18/19	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	12/18/19	SC	30 - 150 %
% TCMX	74		%	10	12/18/19	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	12/18/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B233-5
Phoenix I.D.: CE86586

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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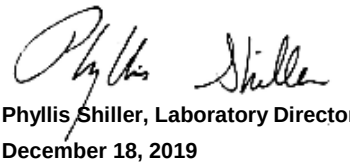

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December 18, 2019
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86587

Project ID: BERLIN SETTLING BASIN
Client ID: B234-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	430	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	97		%	10	12/17/19	SC	30 - 150 %
% TCMX	80		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B234-1
Phoenix I.D.: CE86587

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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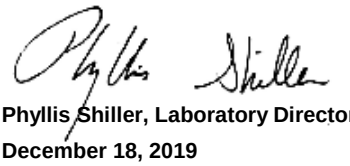

Phyllis Shiller, Laboratory Director
December 18, 2019
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:52
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86588

Project ID: BERLIN SETTLING BASIN
Client ID: B234-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	560	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	108		%	10	12/17/19	SC	30 - 150 %
% TCMX	93		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B234-2
Phoenix I.D.: CE86588

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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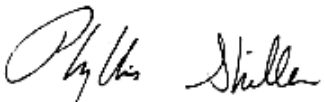

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:54
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86589

Project ID: BERLIN SETTLING BASIN
Client ID: B234-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	1900	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	98		%	10	12/17/19	SC	30 - 150 %
% TCMX	82		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B234-3
Phoenix I.D.: CE86589

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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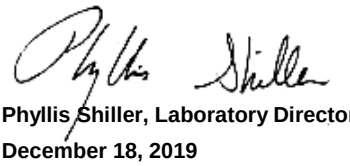

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:56
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86590

Project ID: BERLIN SETTLING BASIN
Client ID: B234-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	91		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	96		%	10	12/17/19	SC	30 - 150 %
% TCMX	87		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B234-4
Phoenix I.D.: CE86590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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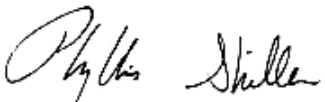

Phyllis Shiller, Laboratory Director
December 18, 2019
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:58
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86591

Project ID: BERLIN SETTLING BASIN
Client ID: B234-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	12/17/19	SC	30 - 150 %
% TCMX	77		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B234-5
Phoenix I.D.: CE86591

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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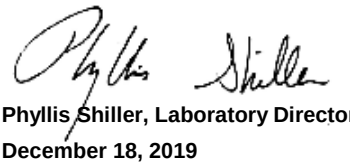

Phyllis Shiller, Laboratory Director
December 18, 2019
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	12:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86592

Project ID: BERLIN SETTLING BASIN
Client ID: B235-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	60		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	62		%	10	12/13/19	SC	30 - 150 %
% TCMX	66		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	62		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B235-1
Phoenix I.D.: CE86592

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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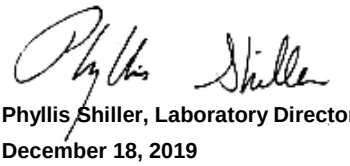

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86593

Project ID: BERLIN SETTLING BASIN
Client ID: B235-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	700	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	12/13/19	SC	30 - 150 %
% TCMX	87		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B235-2
Phoenix I.D.: CE86593

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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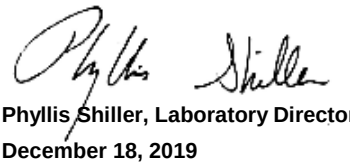

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86594

Project ID: BERLIN SETTLING BASIN
Client ID: B235-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	93		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	94		%	10	12/13/19	SC	30 - 150 %
% TCMX	89		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	83		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B235-3
Phoenix I.D.: CE86594

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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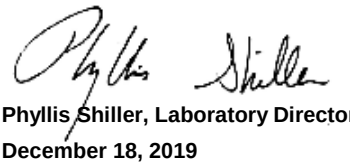

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86595

Project ID: BERLIN SETTLING BASIN
Client ID: B235-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	86		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	78		%	10	12/13/19	SC	30 - 150 %
% TCMX	75		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B235-4
Phoenix I.D.: CE86595

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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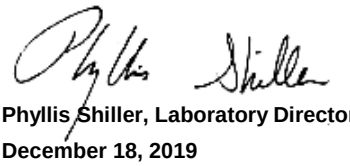

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	10:18
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86596

Project ID: BERLIN SETTLING BASIN
Client ID: B235-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	86		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	43		%	10	12/13/19	SC	30 - 150 %
% TCMX	77		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B235-5
Phoenix I.D.: CE86596

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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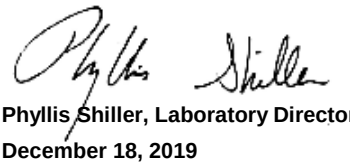

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:30
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86607

Project ID: BERLIN SETTLING BASIN
Client ID: B238-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	92		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	88		%	10	12/17/19	SC	30 - 150 %
% TCMX	88		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B238-1
Phoenix I.D.: CE86607

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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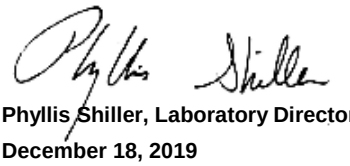

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:32
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86608

Project ID: BERLIN SETTLING BASIN
Client ID: B238-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	89		%	10	12/17/19	SC	30 - 150 %
% TCMX	81		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B238-2
Phoenix I.D.: CE86608

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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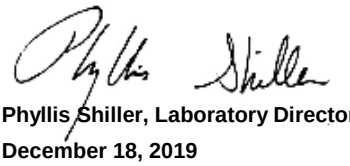

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December 18, 2019
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:34
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86609

Project ID: BERLIN SETTLING BASIN
Client ID: B238-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	12/17/19	SC	30 - 150 %
% TCMX	86		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	83		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B238-3
Phoenix I.D.: CE86609

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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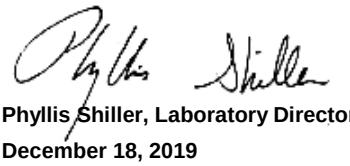

Phyllis Shiller, Laboratory Director
December 18, 2019
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:36
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86610

Project ID: BERLIN SETTLING BASIN
Client ID: B238-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	12/17/19	SC	30 - 150 %
% TCMX	88		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B238-4
Phoenix I.D.: CE86610

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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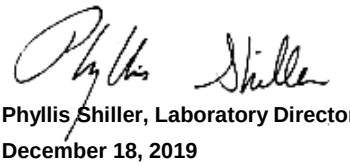

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December 18, 2019
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:38
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86611

Project ID: BERLIN SETTLING BASIN
Client ID: B238-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	12/17/19	SC	30 - 150 %
% TCMX	92		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B238-5
Phoenix I.D.: CE86611

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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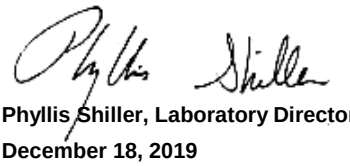

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86612

Project ID: BERLIN SETTLING BASIN
Client ID: B239-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	88		%	10	12/13/19	SC	30 - 150 %
% TCMX	73		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B239-1
Phoenix I.D.: CE86612

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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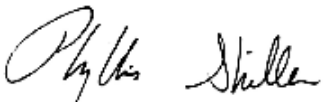

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:15
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86613

Project ID: BERLIN SETTLING BASIN
Client ID: B239-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	560	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	87		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	12/13/19	SC	30 - 150 %
% TCMX	77		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B239-2
Phoenix I.D.: CE86613

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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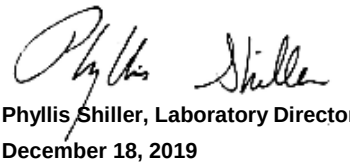

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86614

Project ID: BERLIN SETTLING BASIN
Client ID: B239-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	2900	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	97		%	10	12/13/19	SC	30 - 150 %
% TCMX	85		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B239-3
Phoenix I.D.: CE86614

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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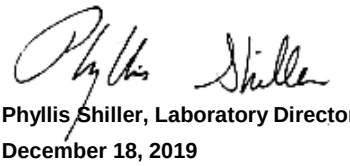

Phyllis Shiller, Laboratory Director
December 18, 2019
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86615

Project ID: BERLIN SETTLING BASIN
Client ID: B239-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	420	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	78		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	84		%	10	12/13/19	SC	30 - 150 %
% TCMX	85		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B239-4
Phoenix I.D.: CE86615

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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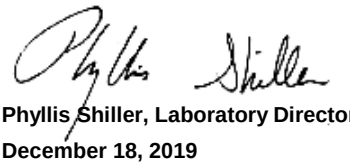

Phyllis Shiller, Laboratory Director
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	15:18
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86616

Project ID: BERLIN SETTLING BASIN
Client ID: B239-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	92		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	96		%	10	12/13/19	SC	30 - 150 %
% TCMX	68		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B239-5
Phoenix I.D.: CE86616

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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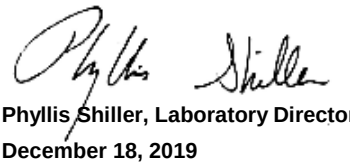

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:20
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86617

Project ID: BERLIN SETTLING BASIN
Client ID: B240-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	99		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	92		%	10	12/13/19	SC	30 - 150 %
% TCMX	91		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B240-1
Phoenix I.D.: CE86617

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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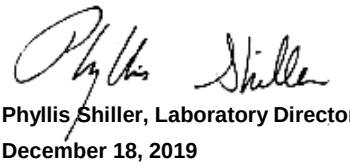

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Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:22
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86618

Project ID: BERLIN SETTLING BASIN
Client ID: B240-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	12/13/19	SC	30 - 150 %
% TCMX	82		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B240-2
Phoenix I.D.: CE86618

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Comments:

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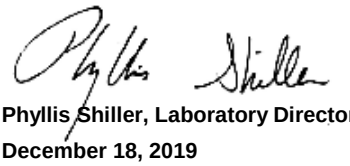

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Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:24
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86619

Project ID: BERLIN SETTLING BASIN
Client ID: B240-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	74		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	70		%	10	12/13/19	SC	30 - 150 %
% TCMX	59		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	55		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B240-3

Phoenix I.D.: CE86619

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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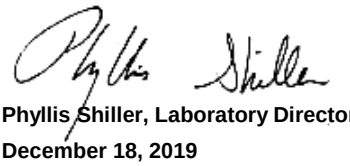

Phyllis Shiller, Laboratory Director
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	13:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86620

Project ID: BERLIN SETTLING BASIN
Client ID: B241-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	93		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	12/13/19	SC	30 - 150 %
% TCMX	84		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B241-1
Phoenix I.D.: CE86620

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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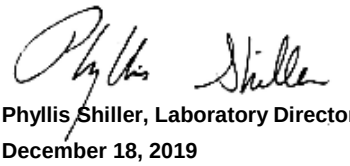

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	13:02
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86621

Project ID: BERLIN SETTLING BASIN
Client ID: B241-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	68		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	69		%	10	12/13/19	SC	30 - 150 %
% TCMX	56		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	57		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B241-2
Phoenix I.D.: CE86621

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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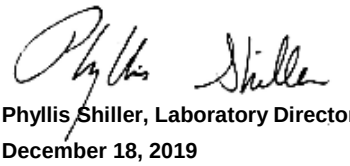

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	13:04
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86622

Project ID: BERLIN SETTLING BASIN
Client ID: B241-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	124		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	122		%	10	12/13/19	SC	30 - 150 %
% TCMX	101		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	101		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B241-3
Phoenix I.D.: CE86622

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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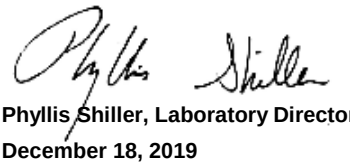

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	13:06
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86623

Project ID: BERLIN SETTLING BASIN
Client ID: B241-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	105		%	10	12/13/19	SC	30 - 150 %
% TCMX	85		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B241-4
Phoenix I.D.: CE86623

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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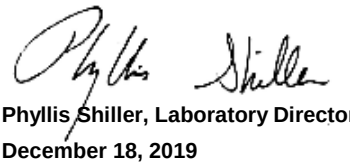

Phyllis Shiller, Laboratory Director
December 18, 2019
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	13:08
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86624

Project ID: BERLIN SETTLING BASIN
Client ID: B241-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	103		%	10	12/13/19	SC	30 - 150 %
% TCMX	93		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	93		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B241-5
Phoenix I.D.: CE86624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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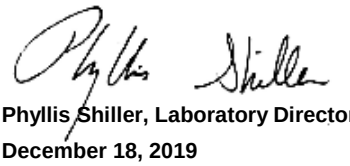

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December 18, 2019
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86635

Project ID: BERLIN SETTLING BASIN
Client ID: B244-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	450	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	80		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	12/17/19	SC	30 - 150 %
% TCMX	71		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B244-1
Phoenix I.D.: CE86635

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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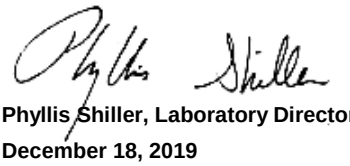

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:52
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86636

Project ID: BERLIN SETTLING BASIN
Client ID: B244-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	86		%	10	12/17/19	SC	30 - 150 %
% TCMX	74		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B244-2
Phoenix I.D.: CE86636

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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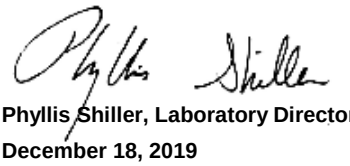

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:54
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86637

Project ID: BERLIN SETTLING BASIN
Client ID: B244-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	95		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	105		%	10	12/17/19	SC	30 - 150 %
% TCMX	81		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B244-3
Phoenix I.D.: CE86637

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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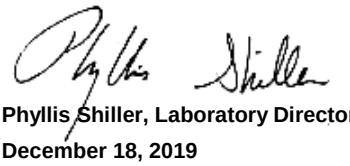

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:56
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86638

Project ID: BERLIN SETTLING BASIN
Client ID: B244-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	97		%	10	12/17/19	SC	30 - 150 %
% TCMX	82		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B244-4
Phoenix I.D.: CE86638

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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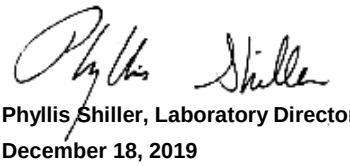

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:58
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86639

Project ID: BERLIN SETTLING BASIN
Client ID: B244-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/16/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/16/19	K/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/17/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	93		%	10	12/17/19	SC	30 - 150 %
% DCBP (Confirmation)	96		%	10	12/17/19	SC	30 - 150 %
% TCMX	81		%	10	12/17/19	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	12/17/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B244-5
Phoenix I.D.: CE86639

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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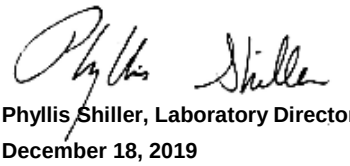

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86640

Project ID: BERLIN SETTLING BASIN
Client ID: B245-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	450	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	118		%	10	12/13/19	SC	30 - 150 %
% TCMX	95		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	100		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B245-1

Phoenix I.D.: CE86640

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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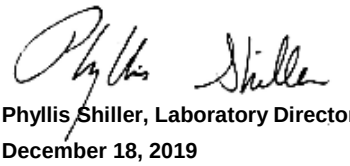

Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

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

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:02
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86641

Project ID: BERLIN SETTLING BASIN
Client ID: B245-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	450	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	111		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	104		%	10	12/13/19	SC	30 - 150 %
% TCMX	100		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	93		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B245-2
Phoenix I.D.: CE86641

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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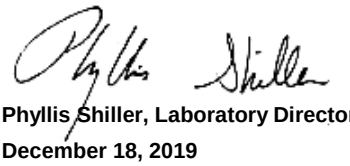

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December 18, 2019
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:04
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86642

Project ID: BERLIN SETTLING BASIN
Client ID: B245-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	90		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	108		%	10	12/13/19	SC	30 - 150 %
% TCMX	81		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B245-3
Phoenix I.D.: CE86642

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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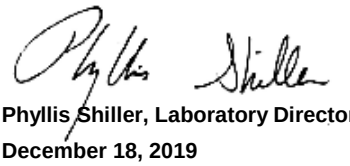

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December 18, 2019
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:06
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86643

Project ID: BERLIN SETTLING BASIN
Client ID: B245-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	108		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	115		%	10	12/13/19	SC	30 - 150 %
% TCMX	92		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B245-4
Phoenix I.D.: CE86643

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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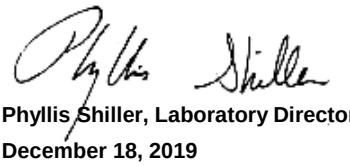

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 18, 2019

FOR: Attn: Mr. Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/12/19	14:08
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	12/12/19	18:34
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCE86582
Phoenix ID: CE86644

Project ID: BERLIN SETTLING BASIN
Client ID: B245-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		12/12/19	VT	SW846-%Solid
Extraction for PCB	Completed				12/12/19	F/B/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/13/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	12/13/19	SC	30 - 150 %
% DCBP (Confirmation)	98		%	10	12/13/19	SC	30 - 150 %
% TCMX	86		%	10	12/13/19	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	12/13/19	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B245-5
Phoenix I.D.: CE86644

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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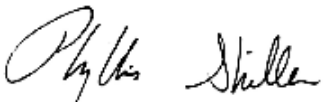


Phyllis Shiller, Laboratory Director
December 18, 2019
Official Report Release To Follow

Wednesday, December 18, 2019

Sample Criteria Exceedances Report

GCE86582 - WESTSAM-EVERBERLIN

Criteria: CT: RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CE86589	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	1900	370	1000	1000	ug/Kg
CE86589	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1900	370	1000	1000	ug/Kg
CE86614	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	2900	390	1000	1000	ug/Kg
CE86614	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	2900	390	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.

CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

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

Cooler: Yes ☒ No ☐ Coolant: IPK ☐ ICE ☒ No ☐
Temp 5.5 Pg 1 of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: BerthjaumeC@wseinc.com
☒ Email: BartoszR@wseinc.com

Customer: Weston + Sampson
Address: 273 Dividend Rd, Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Ryan Bartosz
QUOTE #

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 12/12/19

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	PCBs w/ 5 x Inlet	HOLD	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container (1) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/hypo	Bacteria Bottle as is
86582	B233-1	S	12/12/19	1110	X				1									
86583	B233-2	↓	↓	1112	↑				↑									
86584	B233-3			1114														
86585	B233-4			1116														
86586	B233-5			1118														
86587	B234-1			1050														
86588	B234-2			1052														
86589	B234-3			1054														
86590	B234-4			1056	↓				↓									
86591	B234-5	↓	↓	1058	X				1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Krystal Hall	12/12/19	1813

Comments, Special Requirements or Regulations:
24 hr TAT page 1/8
Eversource project:
No sales tax
Eversource rates

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

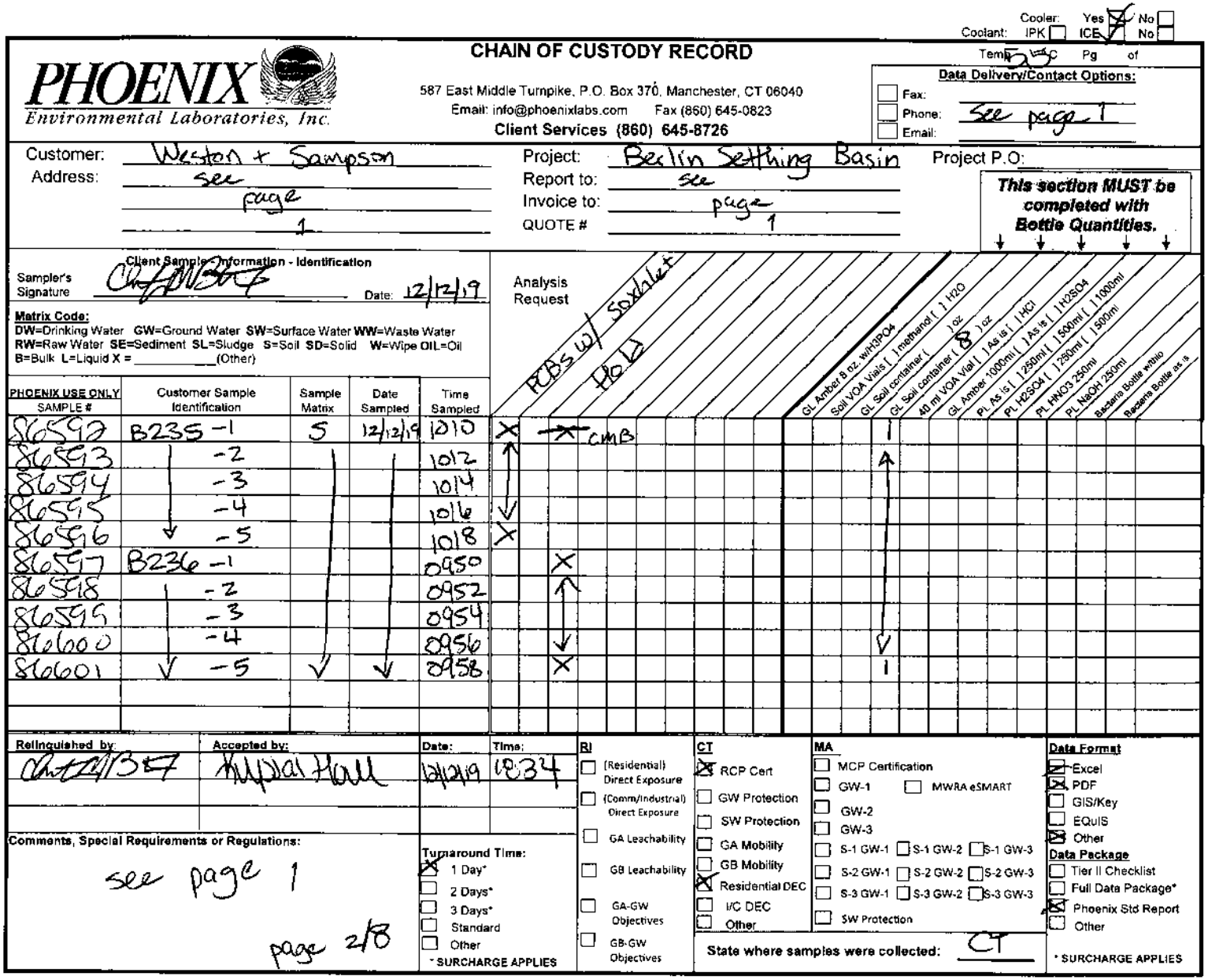
CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2
☐ 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 W+S EDD

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



CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐
Temp 5.5 °C Pg of

Data Delivery/Contact Options:
Fax:
Phone: See page 1
Email:

Customer: Weston + Sampson
Address: see page 1
Project: Berlin Settling Basin
Report to: see page 1
Invoice to:
QUOTE #
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: [signature] Date: 12/12/19

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	PCBs w/ Soxhlet	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container [ ] oz	GL Soil container [8] oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 1250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 1250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
86592	B235 -1	S	12/12/19	1010	X	X				1								
86593	-2			1012	X													
86594	-3			1014														
86595	-4			1016														
86596	-5			1018	X													
86597	B236 -1			0950		X												
86598	-2			0952														
86599	-3			0954														
86600	-4			0956														
86601	-5			0958		X				V								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Krystal Hall	12/12/19	1834

Comments, Special Requirements or Regulations:
see page 1
page 2/8

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

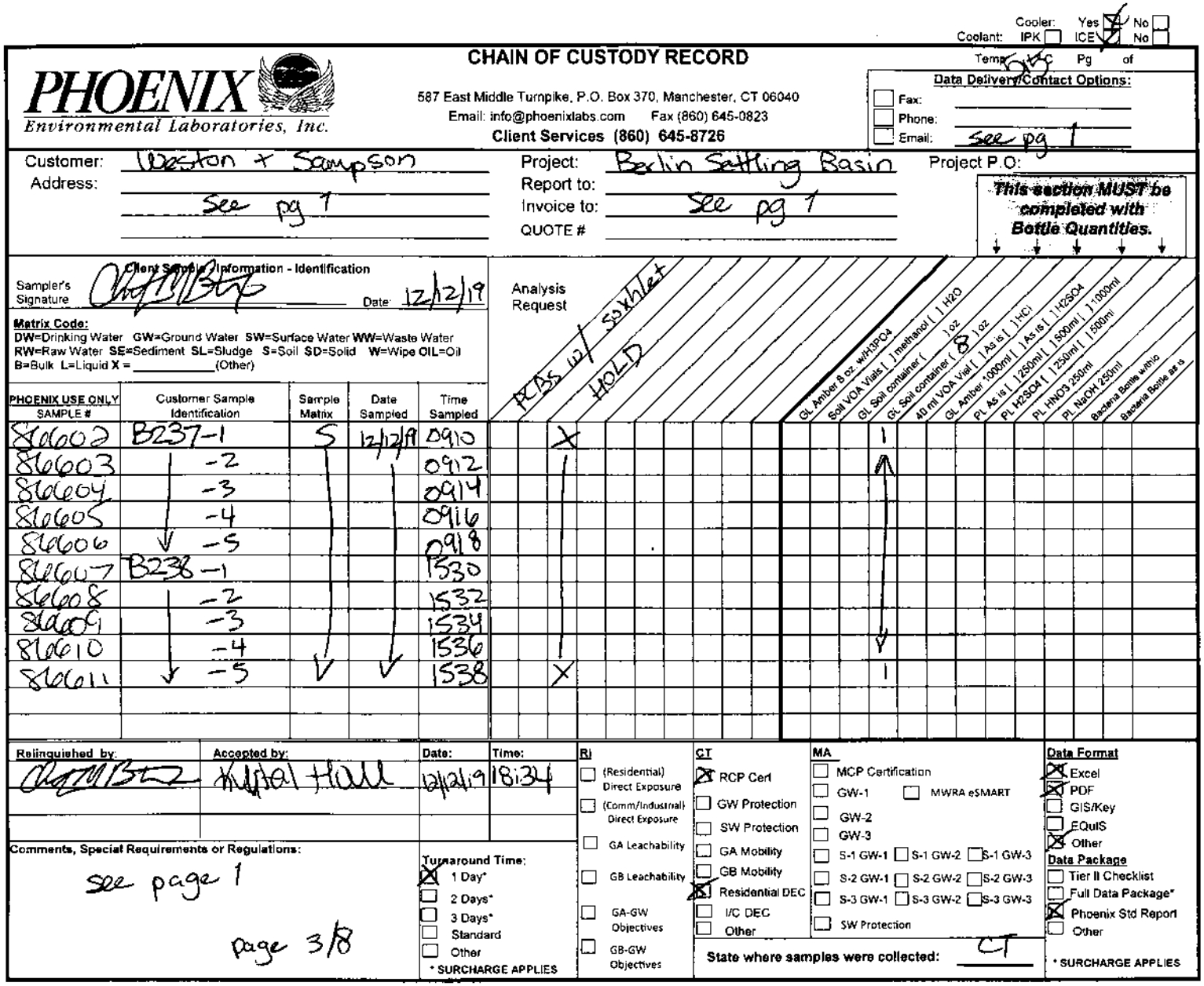
CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2
☐ 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



Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐
Temp 4.5°C Pg of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email: See pg 1

Customer: Weston + Sampson
Address: See pg 1
Project: Berlin Settling Basin
Report to:
Invoice to: See pg 1
QUOTE #
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 12/12/19

Client Sample Information - Identification

Analysis Request: PCBs 1/2 soxhlet HOLD

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)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container (8) 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
816602	B237-1	S	12/12/19	0910				X								
816603	-2			0912												
816604	-3			0914												
816605	-4			0916												
816606	-5			0918												
816607	B238-1			1530												
816608	-2			1532												
816609	-3			1534												
816610	-4			1536												
816611	-5			1538				X								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Michael Hall	12/12/19	18:34

Comments, Special Requirements or Regulations:
see page 1

page 3/8

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
☐ 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

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 5.1°C Pg of

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

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[ ] Email: see pg 1

Customer: Weston + Sampson
Address: see pg 1

Project: Berlin Settling Basin Project P.O:
Report to: see pg 1
Invoice to:
QUOTE #

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 12/12/19

Client Sample Information - Identification

Analysis Request: PCBs w/ SOXTEC HOLD

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)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	GL Amber 8 oz w/H2SO4	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
866612	B239-1	S	12/12/19	1510	X	X					1					
866613	-2			1512	X	X										
866614	-3			1514	X	X										
866615	-4			1516	X	X										
866616	-5			1518	X	X										
866617	B240-1			1420	X											
866618	-2			1422	X											
866619	-3	S	12/12/19	1424	X						1					

CMPs

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Krystal Hall	12/12/19	1834

Comments, Special Requirements or Regulations:
See pg 1

pg 4 of 8

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

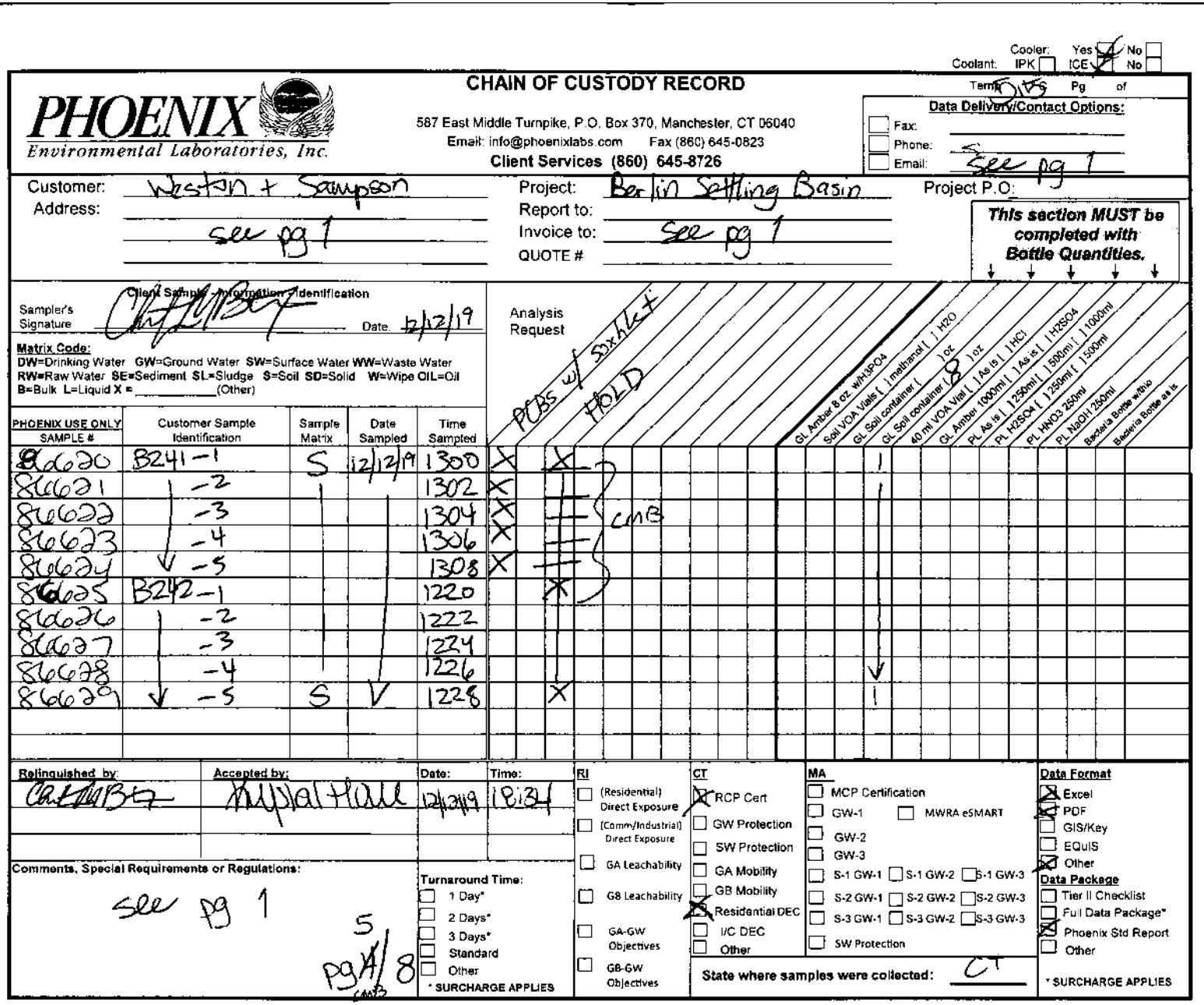
MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

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

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

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 580 of 2201



CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐
Temp 5.1/5 Pg of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email: See pg 1

Customer: Weston + Sampson
Address: see pg 1
Project: Berlin Settling Basin
Report to:
Invoice to: See pg 1
QUOTE #
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 12/12/19

Client Sample - Information - Identification

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	PCBs w/ 5x Dil + HOLD	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
866620	B241-1	S	12/12/19	1300	X	X			1								
866621	-2			1302	X				1								
866622	-3			1304	X												
866623	-4			1306	X												
866624	-5			1308	X												
866625	B242-1			1220		X											
866626	-2			1222													
866627	-3			1224													
866628	-4			1226													
866629	-5	S	V	1228		X			1								

CMB

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Michael Hall	12/12/19	18:34

Comments, Special Requirements or Regulations:
see pg 1
5 pgs/8 CMB

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

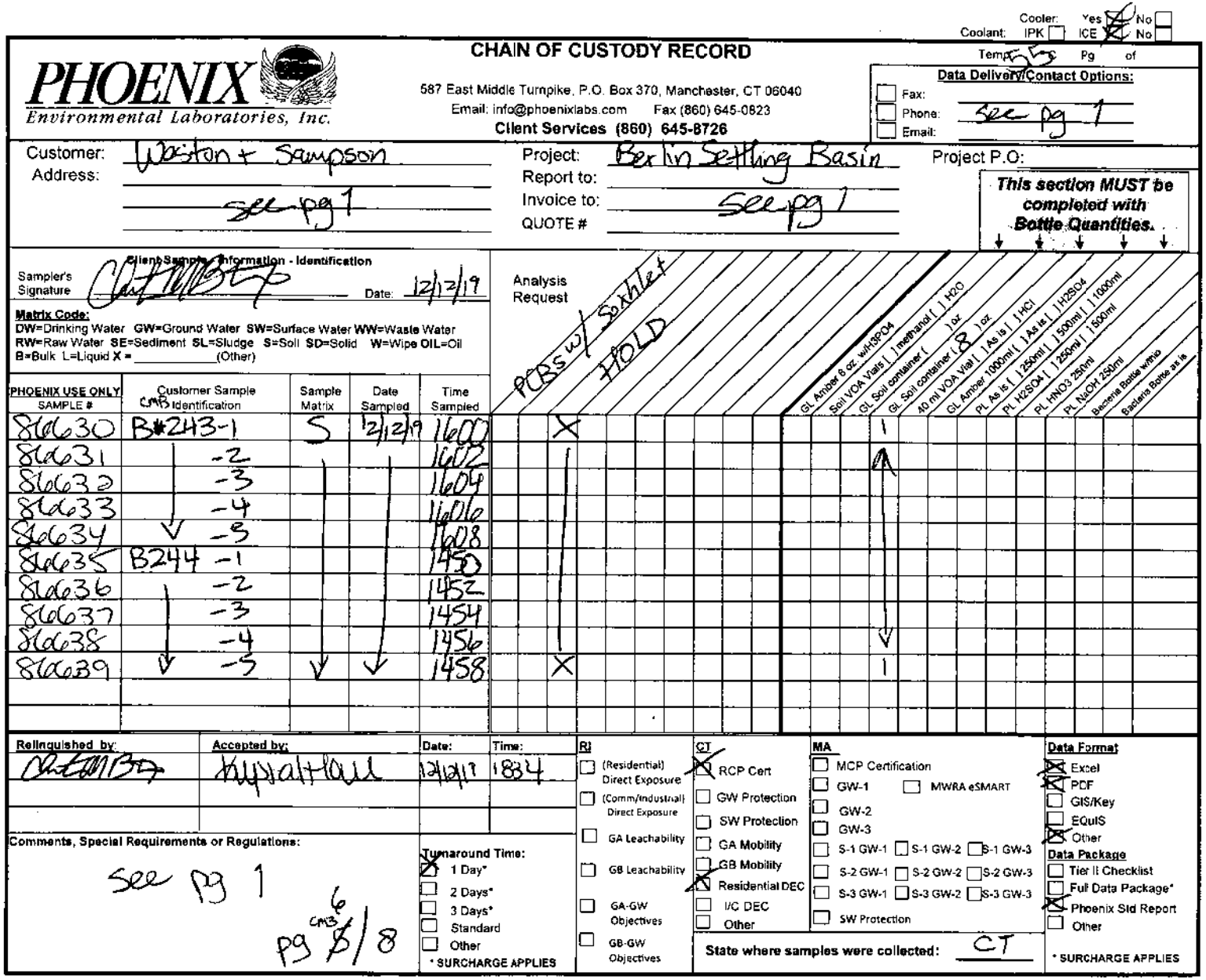
CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2
☐ 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



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

Cooler: Yes ☒ No ☐ Coolant: IPK ☐ ICE ☒ No ☐ Temp 5.5 Pg of

Data Delivery/Contact Options: ☐ Fax: ☐ Phone: ☐ Email: See pg 1

Customer: Weston + Sampson
Address: See pg 1
Project: Berlin Settling Basin
Report to:
Invoice to: See pg 1
QUOTE #
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Date: 12/12/19

Client Sample Information - Identification

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: PCBs w/ Soxhlet; HOLD

PHOENIX USE ONLY SAMPLE #	Customer Sample ID (CMB)	Sample Matrix	Date Sampled	Time Sampled	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container (8) 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/hio	Bacteria Bottle as is
806630	B#243-1	S	12/12/19	1600		X		1								
806631	-2			1602												
806632	-3			1604												
806633	-4			1606												
806634	-5			1608												
806635	B244 -1			1450												
806636	-2			1452												
806637	-3			1454												
806638	-4			1456												
806639	-5			1458		X		1								

Relinquished by:	Accepted by:	Date:	Time:
	Krystal Hall	12/12/19	1884

Comments, Special Requirements or Regulations: See Pg 1 (6 CMB) Pg 8/8

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 ☐ 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

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 0.1°C Pg 1 of

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Email: info@phoenixlabs.com Fax (860) 645-8023
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[ ] Email: See pg 1

Customer: Weston & Sampson
Address: See pg 1

Project: Berlin Settling Basin
Report to:
Invoice to: See pg 1
QUOTE #

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 12/12/19

Client Sample Information / Identification

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: PCBs w/ Soxhlet; Hold

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CMB	Gl. Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	Gl. Soil container [ ] oz	Gl. Soil container (8) 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
	~~B244-1~~ CMB	S	12/12/19						CMB								
866040	B245-1			1400	X				1								
866041	-2			1402	|				|								
866042	-3			1404	|				|								
866043	-4			1406	|				|								
866044	-5			1408	X					V								
866045	B246-1			1240		X												
866046	-2			1242		|											
866047	-3			1244		|											
866048	-4			1246		|											
866049	-5	V	V	1248		X												

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Krystal Hall	12/12/19	1834

Comments, Special Requirements or Regulations:
See pg 1
CMB 7
pg 1 of 8

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

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] 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
[ ] EQuIS
[X] Other

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

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 2.5C Pg 1 of

CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

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

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[ ] Email: See pg 1

Customer: Weston + Sampson
Address: See pg 1
Project: Berlin Settling Basin
Report to:
Invoice to: See pg 1
QUOTE #
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 12/12/19

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: PCBs w/ soxhlet + HOLD

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Gl. Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	Gl. Soil container [ ] oz	Gl. Soil container 8 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/tho	Bacteria Bottle as is
86650	B247-1	S	12/12/19	1150			X					1				
86651	-2			1152												
86652	-3			1154												
86653	-4			1156												
86654	-5			1158			X					1				

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Krystal Hall	12/12/19	1834

Comments, Special Requirements or Regulations:
See pg 1
pg 8/8

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

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] 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
[ ] EQuIS
[X] Other

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

Bobbi Aloisa

From: Berthiaume, Christopher <BerthiaumeC@wseinc.com>
Sent: Monday, December 16, 2019 9:20 AM
To: Bobbi Aloisa
Cc: Bartosz, Ryan
Subject: BSB - Sample Activation Request

Bobbi,

I am requesting the activation of 15 samples for PCB analysis with Soxhlet extraction on 24 hour TAT. The samples are as follows:

Lab ID	Sample ID
86587	B234-1
86588	B234-2
86589	B234-3
86590	B234-4
86591	B234-5
86607	B238-1
86608	B238-2
86609	B238-3
86610	B238-4
86611	B238-5
86635	B244-1
86636	B244-2
86637	B244-3
86638	B244-4
86639	B244-5

Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

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Bobbi Aloisa

From: Berthiaume, Christopher <BerthiaumeC@wseinc.com>
Sent: Tuesday, December 17, 2019 2:50 PM
To: Bobbi Aloisa; Bartosz, Ryan
Subject: RE: Berlin PCB Rushes

Bobbi,

Could you activate the following samples for 24-hr TAT?

CE86582 (B233-1)
CE86583 (B233-2)
CE86584 (B233-3)
CE86585 (B233-4)
CE86586 (B233-5)

Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

Facebook | Twitter | LinkedIn

From: Bobbi Aloisa <bobbi@phoenixlabs.com>
Sent: Tuesday, December 17, 2019 2:12 PM
To: Bartosz, Ryan <BartoszR@wseinc.com>; Berthiaume, Christopher <BerthiaumeC@wseinc.com>
Subject: Berlin PCB Rushes

Bobbi Aloisa
Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com

The contents of this e-mail and any attachments are the property of the Weston & Sampson companies. The e-mail contents are only to be used by the intended recipient of the e-mail. If you are not the intended recipient, then use, disclosure, copying, distribution or reliance on the e-mail is prohibited. All professional advice from us should be obtained in writing (not e-mail).

PHOENIX
Environmental Laboratories, Inc.

Friday, January 31, 2020

Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Project ID: BERLIN SETTLING BASIN
SDG ID: GCF18498
Sample ID#s: CF18498 - CF18513, CF18515 - CF18535

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

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

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

Sample Id Cross Reference

January 31, 2020

SDG I.D.: GCF18498

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
B-248 (0-0.5`)	CF18498	SOIL
B-248 (3-4.0`)	CF18499	SOIL
B-248 (7-8.0`)	CF18500	SOIL
B-248 (10-12`)	CF18501	SOIL
B-248 (12-13`)	CF18502	SOIL
B-249 (0-0.5`)	CF18503	SOIL
B-249 (3-4.0`)	CF18504	SOIL
B-249 (7-8.0`)	CF18505	SOIL
B-249 (10-12`)	CF18506	SOIL
B-249 (14-15`)	CF18507	SOIL
B-250 (0-0.5`)	CF18508	SOIL
B-250 (3-4.0`)	CF18509	SOIL
B-250 (7-8.0`)	CF18510	SOIL
B-250 (10-12.0`)	CF18511	SOIL
B-250 (14-15.0`)	CF18512	SOIL
B-251 (0-0.5`)	CF18513	SOIL
B-251 (7-8.0`)	CF18515	SOIL
B-251 (10-12.0`)	CF18516	SOIL
B-251 (14-15.0`)	CF18517	SOIL
B-252 (0-0.5`)	CF18518	SOIL
B-252 (3-4.0`)	CF18519	SOIL
B-252 (7-8.0`)	CF18520	SOIL
B-252 (10-12.0`)	CF18521	SOIL
B-252 (14-15.0`)	CF18522	SOIL
DUP-1/23-1	CF18523	SOIL
DUP-1/23-2	CF18524	SOIL
DUP-1/23-3	CF18525	SOIL
B-253 (0-0.5`)	CF18526	SOIL
B-253 (3-4.0`)	CF18527	SOIL
B-253 (7-8.0`)	CF18528	SOIL

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

January 31, 2020

SDG I.D.: GCF18498

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
B-253 (10-12`)	CF18529	SOIL
B-253 (14-15`)	CF18530	SOIL
B-254 (0-0.5`)	CF18531	SOIL
B-254 (3-4`)	CF18532	SOIL
B-254 (7-8`)	CF18533	SOIL
B-254 (10-12`)	CF18534	SOIL
B-254 (14-15`)	CF18535	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

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:11
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18498

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	67		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	680	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	480	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	85		%	10	01/24/20	SC	30 - 150 %
% TCMX	76		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (0-0.5`)

Phoenix I.D.: CF18498

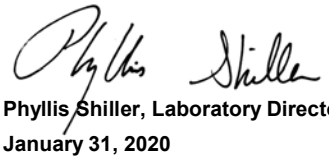
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18499

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (3-4.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	79		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	420	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	151		%	10	01/24/20	SC	30 - 150 %	3
% DCBP (Confirmation)	165		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	126		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	127		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (3-4.0`)

Phoenix I.D.: CF18499

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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:

PCB Comment:
For PCBs, Surrogate recoveries were >150%. Sample was non detect.

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:13
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18500

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (7-8.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	3100	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	01/24/20	SC	30 - 150 %
% TCMX	86		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (7-8.0`)

Phoenix I.D.: CF18500

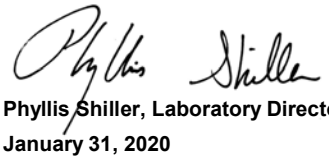
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18501

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (10-12`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	710	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	124		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	115		%	10	01/24/20	SC	30 - 150 %
% TCMX	118		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	119		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (10-12`)

Phoenix I.D.: CF18501

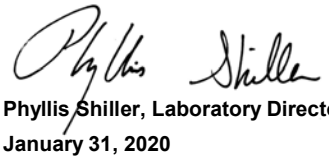
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:15
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18502

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (12-13`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	120		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	124		%	10	01/24/20	SC	30 - 150 %
% TCMX	97		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	95		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-248 (12-13`)

Phoenix I.D.: CF18502

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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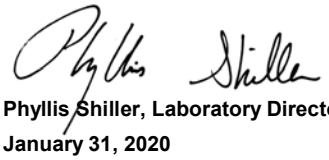

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:30
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18503

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	70		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	470	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	107		%	10	01/24/20	SC	30 - 150 %
% TCMX	92		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	96		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (0-0.5`)

Phoenix I.D.: CF18503

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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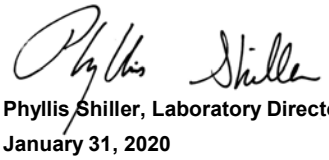

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:31
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18504

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (3-4.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/24/20	HH/VT/JS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/26/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	147		%	10	01/26/20	SC	30 - 150 %
% DCBP (Confirmation)	130		%	10	01/26/20	SC	30 - 150 %
% TCMX	111		%	10	01/26/20	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	01/26/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (3-4.0`)

Phoenix I.D.: CF18504

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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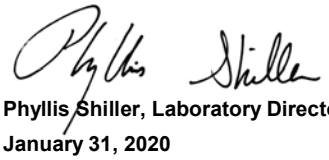

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:32
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18505

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (7-8.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	410	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	96		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	96		%	10	01/24/20	SC	30 - 150 %
% TCMX	66		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	65		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (7-8.0`)

Phoenix I.D.: CF18505

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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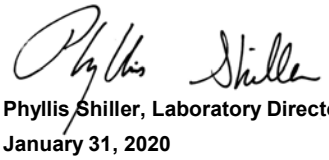

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:33
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18506

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (10-12`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	430	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	112		%	10	01/24/20	SC	30 - 150 %
% TCMX	80		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (10-12`)

Phoenix I.D.: CF18506

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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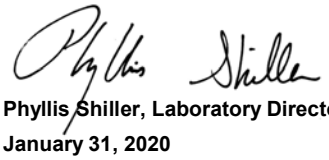

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:34
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18507

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (14-15`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	108		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	108		%	10	01/24/20	SC	30 - 150 %
% TCMX	86		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	91		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-249 (14-15`)

Phoenix I.D.: CF18507

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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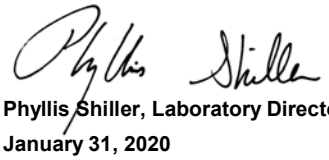

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18508

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	01/24/20	SC	30 - 150 %
% TCMX	89		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (0-0.5`)

Phoenix I.D.: CF18508

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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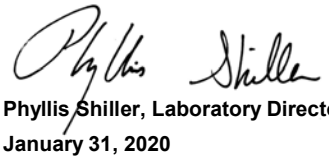

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:51
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18509

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (3-4.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	118		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	117		%	10	01/24/20	SC	30 - 150 %
% TCMX	82		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	80		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (3-4.0`)

Phoenix I.D.: CF18509

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:52
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18510

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (7-8.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	01/24/20	SC	30 - 150 %
% TCMX	79		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (7-8.0`)

Phoenix I.D.: CF18510

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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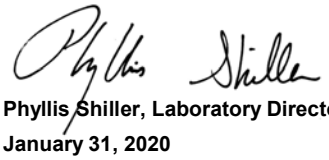

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:53
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18511

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (10-12.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	117		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	113		%	10	01/24/20	SC	30 - 150 %
% TCMX	80		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (10-12.0`)
Phoenix I.D.: CF18511

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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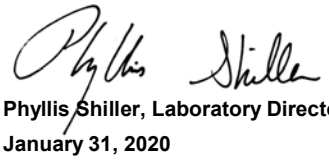

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	13:54
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18512

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (14-15.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	122		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	125		%	10	01/24/20	SC	30 - 150 %
% TCMX	95		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-250 (14-15.0`)

Phoenix I.D.: CF18512

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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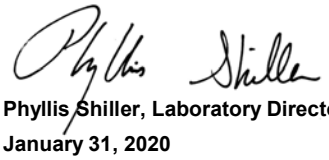

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18513

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	89		%	10	01/24/20	SC	30 - 150 %
% TCMX	78		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (0-0.5`)

Phoenix I.D.: CF18513

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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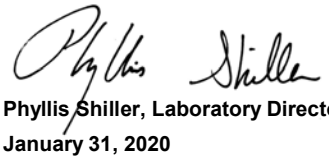

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:02
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18515

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (7-8.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	93		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	01/24/20	SC	30 - 150 %
% TCMX	67		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	65		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (7-8.0`)

Phoenix I.D.: CF18515

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:03
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18516

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (10-12.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	2100	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	82		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	87		%	10	01/24/20	SC	30 - 150 %
% TCMX	78		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (10-12.0`)

Phoenix I.D.: CF18516

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:04
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18517

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (14-15.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	01/24/20	SC	30 - 150 %
% TCMX	93		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	96		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-251 (14-15.0`)

Phoenix I.D.: CF18517

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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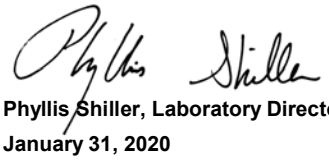

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:20
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18518

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	120		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	129		%	10	01/24/20	SC	30 - 150 %
% TCMX	96		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (0-0.5`)
Phoenix I.D.: CF18518

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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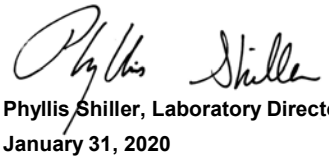

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:21
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18519

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (3-4.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1221	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1232	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1242	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1248	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1254	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1260	32000	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1262	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
PCB-1268	ND	3700	ug/Kg	100	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	100	01/24/20	SC	30 - 150 %
% TCMX	Diluted Out		%	100	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	100	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (3-4.0`)

Phoenix I.D.: CF18519

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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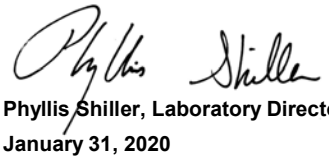
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:22
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18520

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (7-8.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	90		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	147		%	10	01/24/20	SC	30 - 150 %	
% DCBP (Confirmation)	152		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	118		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	117		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (7-8.0`)

Phoenix I.D.: CF18520

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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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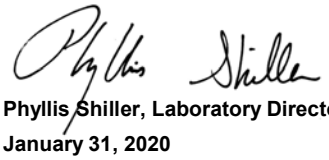

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:23
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18521

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (10-12.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	790	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	72		%	10	01/24/20	SC	30 - 150 %
% TCMX	73		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (10-12.0`)

Phoenix I.D.: CF18521

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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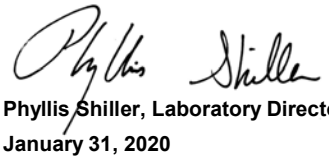

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:24
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18522

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (14-15.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	73		%	10	01/24/20	SC	30 - 150 %
% TCMX	57		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	59		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-252 (14-15.0`)

Phoenix I.D.: CF18522

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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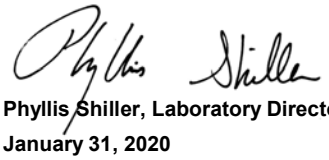

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18523

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	87		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/24/20	HH/VT/JS	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1221	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1232	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1242	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1248	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1254	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1260	1300	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1262	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
PCB-1268	ND	380	ug/Kg	10	01/26/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	156		%	10	01/26/20	SC	30 - 150 %	3
% DCBP (Confirmation)	154		%	10	01/26/20	SC	30 - 150 %	3
% TCMX	123		%	10	01/26/20	SC	30 - 150 %	
% TCMX (Confirmation)	121		%	10	01/26/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-1

Phoenix I.D.: CF18523

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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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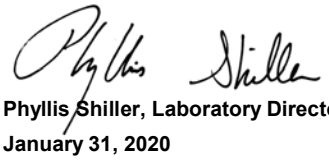

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18524

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	92		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	167		%	10	01/24/20	SC	30 - 150 %	3
% DCBP (Confirmation)	173		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	121		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	120		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-2

Phoenix I.D.: CF18524

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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:

PCB Comment:
For PCBs, Surrogate recoveries were >150%. Sample was non detect.

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18525

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	3100	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	128		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	120		%	10	01/24/20	SC	30 - 150 %
% TCMX	123		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	127		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-1/23-3

Phoenix I.D.: CF18525

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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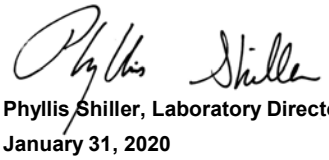

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18526

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	129		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	125		%	10	01/24/20	SC	30 - 150 %
% TCMX	41		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	42		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (0-0.5`)

Phoenix I.D.: CF18526

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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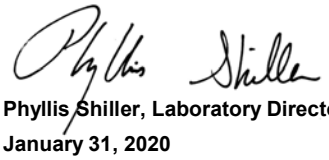

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:41
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18527

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (3-4.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	126		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	123		%	10	01/24/20	SC	30 - 150 %
% TCMX	64		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	65		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (3-4.0`)

Phoenix I.D.: CF18527

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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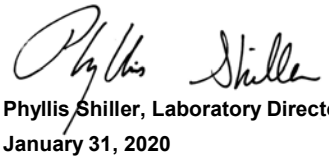

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:42
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18528

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (7-8.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	113		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	109		%	10	01/24/20	SC	30 - 150 %
% TCMX	74		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (7-8.0`)

Phoenix I.D.: CF18528

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:43
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18529

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (10-12`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1221	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1232	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1242	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1248	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1254	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1260	13000	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1262	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
PCB-1268	ND	1900	ug/Kg	50	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	50	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	50	01/24/20	SC	30 - 150 %
% TCMX	Diluted Out		%	50	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	50	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (10-12`)

Phoenix I.D.: CF18529

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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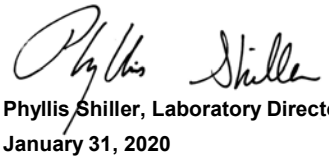

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	14:44
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18530

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (14-15`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Percent Solid	93		%		01/23/20	VT	SW846-%Solid	
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1221	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1232	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1242	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1248	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1254	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1260	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1262	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
PCB-1268	ND	350	ug/Kg	10	01/24/20	SC	SW8082A	
QA/QC Surrogates								
% DCBP	155		%	10	01/24/20	SC	30 - 150 %	3
% DCBP (Confirmation)	161		%	10	01/24/20	SC	30 - 150 %	3
% TCMX	115		%	10	01/24/20	SC	30 - 150 %	
% TCMX (Confirmation)	120		%	10	01/24/20	SC	30 - 150 %	

Project ID: BERLIN SETTLING BASIN
Client ID: B-253 (14-15`)

Phoenix I.D.: CF18530

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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:

PCB Comment:
For PCBs, Surrogate recoveries were >150%. Sample was non detect.

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
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	15:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18531

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	150		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	143		%	10	01/24/20	SC	30 - 150 %
% TCMX	43		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	45		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (0-0.5`)

Phoenix I.D.: CF18531

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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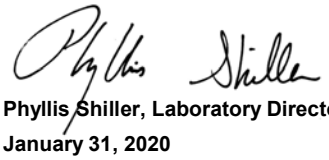

Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	15:01
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18532

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (3-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	630	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	01/29/20	SC	30 - 150 %
% TCMX	94		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (3-4`)

Phoenix I.D.: CF18532

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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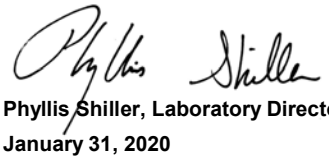


Phyllis Shiller, Laboratory Director
January 31, 2020
Reviewed and Released by: Roopesh Motiram

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

Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	15:02
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18533

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (7-8`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/23/20	F/H/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/24/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	80		%	10	01/24/20	SC	30 - 150 %
% DCBP (Confirmation)	79		%	10	01/24/20	SC	30 - 150 %
% TCMX	40		%	10	01/24/20	SC	30 - 150 %
% TCMX (Confirmation)	42		%	10	01/24/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (7-8`)

Phoenix I.D.: CF18533

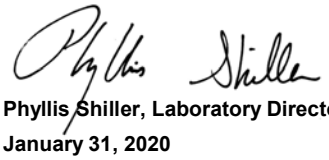
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.



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Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	15:04
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18534

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (10-12`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	2300	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	104		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	102		%	10	01/29/20	SC	30 - 150 %
% TCMX	94		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	100		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (10-12`)

Phoenix I.D.: CF18534

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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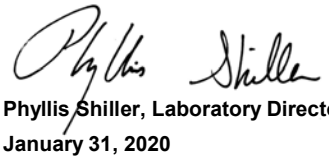

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Analysis Report

January 31, 2020

FOR: Attn: Ryan Bartosz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		01/23/20	15:05
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	01/23/20	16:30
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF18498
Phoenix ID: CF18535

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (14-15`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/23/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	01/29/20	SC	30 - 150 %
% TCMX	88		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-254 (14-15`)

Phoenix I.D.: CF18535

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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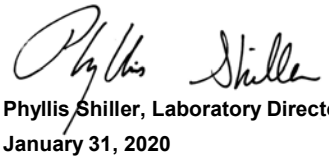

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QA/QC Report

January 31, 2020

QA/QC Data

SDG I.D.: GCF18498

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 515608 (ug/Kg), QC Sample No: CF18501 10X (CF18498, CF18499, CF18500, CF18501, CF18502, CF18503, CF18505, CF18506, CF18507, CF18508, CF18509, CF18510, CF18511, CF18512, CF18513, CF18515, CF18516)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	96	107	10.8	72	72	0.0	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	99	116	15.8	124	116	6.7	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	80	%	103	146	34.5	112	108	3.6	30 - 150	30	r
% DCBP (Surrogate Rec) (Confirm	88	%	110	154	33.3	108	106	1.9	30 - 150	30	l,r
% TCMX (Surrogate Rec)	64	%	98	125	24.2	71	71	0.0	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	65	%	101	133	27.4	73	74	1.4	30 - 150	30	
QA/QC Batch 515609 (ug/Kg), QC Sample No: CF18533 10X (CF18517, CF18518, CF18519, CF18520, CF18521, CF18522, CF18524, CF18525, CF18526, CF18527, CF18528, CF18529, CF18530, CF18531, CF18533)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	106	88	18.6	84	82	2.4	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	111	99	11.4	99	96	3.1	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	86	%	115	111	3.5	107	105	1.9	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	92	%	123	115	6.7	112	110	1.8	30 - 150	30	
% TCMX (Surrogate Rec)	84	%	113	92	20.5	85	75	12.5	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	84	%	117	92	23.9	86	76	12.3	30 - 150	30	
QA/QC Batch 515781 (ug/Kg), QC Sample No: CF20142 10X (CF18504, CF18523)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	102	96	6.1				40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	115	108	6.3				40 - 140	30	
PCB-1262	ND	170							40 - 140	30	

QA/QC Data

SDG I.D.: GCF18498

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	143	%	141	131	7.4				30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	157	%	147	134	9.3				30 - 150	30	s
% TCMX (Surrogate Rec)	115	%	110	96	13.6				30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	131	%	111	96	14.5				30 - 150	30	

Comment:

Due to PCB in the unspiked sample, MS/MSD could not be reported.

QA/QC Batch 516197 (ug/Kg), QC Sample No: CF21732 10X (CF18532, CF18534, CF18535)

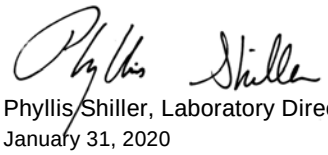
Polychlorinated Biphenyls - Soil

PCB-1016	ND	170	89	100	11.6	90	97	7.5	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	92	105	13.2	98	104	5.9	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	112	%	109	114	4.5	96	112	15.4	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	111	%	106	94	12.0	120	107	11.5	30 - 150	30	
% TCMX (Surrogate Rec)	101	%	98	106	7.8	94	101	7.2	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	99	%	101	108	6.7	97	103	6.0	30 - 150	30	

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate 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
January 31, 2020

Friday, January 31, 2020

Criteria: CT: GAM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCF18498 - WESTSAM-EVERBERLIN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF18500	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	3100	390	1000	1000	ug/Kg
CF18500	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	3100	390	1000	1000	ug/Kg
CF18516	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	2100	370	1000	1000	ug/Kg
CF18516	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	2100	370	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	32000	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1260	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	32000	3700	10000	10000	ug/Kg
CF18519	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	32000	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1262	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1254	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1242	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1268	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1232	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1221	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1016	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18519	$PCB_SOXR	PCB-1248	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3700	1000	1000	ug/Kg
CF18523	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	1300	380	1000	1000	ug/Kg
CF18523	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1300	380	1000	1000	ug/Kg
CF18525	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	3100	360	1000	1000	ug/Kg
CF18525	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	3100	360	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	13000	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1260	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	13000	1900	10000	10000	ug/Kg
CF18529	$PCB_SOXR	PCB-1232	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg

Friday, January 31, 2020

Criteria: CT: GAM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCF18498 - WESTSAM-EVERBERLIN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF18529	$PCB_SOXR	PCB-1242	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1221	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1254	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	13000	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1016	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1262	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1268	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg
CF18529	$PCB_SOXR	PCB-1248	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	1900	1000	1000	ug/Kg
CF18534	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	2300	380	1000	1000	ug/Kg
CF18534	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	2300	380	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:*** Weston & Sampson

Project Location: BERLIN SETTLING BASIN ***Project Number:***

Laboratory Sample ID(s): CF18498-CF18513, CF18515-CF18525 ***Sampling Date(s):*** 1/23/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

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: PCB Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?**	☐ Yes ☑ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in 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, January 31, 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

January 31, 2020

SDG I.D.: GCF18498

PCB Narration

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

QC Batch 515608 (Samples: CF18498, CF18499, CF18500, CF18501, CF18502, CF18503, CF18505, CF18506, CF18507, CF18508, CF18509, CF18510, CF18511, CF18512, CF18513, CF18515, CF18516): -----

One or more surrogates is outside of criteria. (% DCBP (Surrogate Rec) (Confirmation))

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% DCBP (Surrogate Rec), % DCBP (Surrogate Rec) (Confirmation))

QC Batch 515781 (Samples: CF18504, CF18523): -----

The blank surrogate was above criteria. (% DCBP (Surrogate Rec) (Confirmation)(CF20142))

Instrument:

AU-ECD1 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18502 (10X), CF18505 (10X), CF18511 (10X), CF18520 (10X), CF18524 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD1 01/26/20-1 Saadia Chudary, Chemist 01/26/20

CF18504 (10X), CF18523 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18499 (10X), CF18500 (10X), CF18517 (10X)

The initial calibration (PC1125AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1125BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD29 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18498 (10X), CF18501 (10X), CF18508 (10X), CF18521 (10X)

The initial calibration (PC115AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC115BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD3 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18510 (10X), CF18513 (10X), CF18522 (10X), CF18525 (10X)

The initial calibration (PC1230AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1230BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD48 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18503 (10X), CF18507 (10X)

The initial calibration (PC106AI) RSD for the compound list was less than 20% except for the following compounds: None.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

January 31, 2020

SDG I.D.: GCF18498

PCB Narration

The initial calibration (PC106BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD48 01/29/20-1 Saadia Chudary, Chemist 01/29/20

CF18532 (10X), CF18534 (10X)

The initial calibration (PC106AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC106BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18506 (10X), CF18512 (10X), CF18518 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18509 (10X), CF18519 (100X), CF18526 (10X), CF18527 (10X), CF18528 (10X), CF18529 (50X), CF18530 (10X), CF18531 (10X), CF18533 (10X)

The initial calibration (PC1126AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1126BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:
Samples: CF18509, CF18519
Preceding CC 124B003 - None.
Succeeding CC 124B015 - DCBP SURR 20%H (15%)
Samples: CF18526, CF18527, CF18528, CF18529, CF18530, CF18531, CF18533
Preceding CC 124B015 - DCBP SURR 20%H (15%)
Succeeding CC 124B043 - None.

AU-ECD8 01/24/20-1 Saadia Chudary, Chemist 01/24/20

CF18515 (10X), CF18516 (10X)

The initial calibration (PC123AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC123BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD8 01/29/20-1 Saadia Chudary, Chemist 01/29/20

CF18535 (10X)

The initial calibration (PC123AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC123BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 515781 (CF20142)

CF18504, CF18523

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.
Due to PCB in the unspiked sample, MS/MSD could not be reported.

Batch 516197 (CF21732)

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

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RCP Certification Report

January 31, 2020

SDG I.D.: GCF18498

PCB Narration

CF18532, CF18534, CF18535

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.

QC (Site Specific):

Batch 515608 (CF18501)

CF18498, CF18499, CF18500, CF18501, CF18502, CF18503, CF18505, CF18506, CF18507, CF18508, CF18509, CF18510, CF18511, CF18512, CF18513, CF18515, CF18516

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: % DCBP (Surrogate Rec) (Confirmation)(154%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: % DCBP (Surrogate Rec)(34.5%), % DCBP (Surrogate Rec) (Confirmation)(33.3%)
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: None.

Batch 515609 (CF18533)

CF18517, CF18518, CF18519, CF18520, CF18521, CF18522, CF18524, CF18525, CF18526, CF18527, CF18528, CF18529, CF18530, CF18531, CF18533

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: None.

Temperature Narration

The samples were received at 3.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Bobbi Aloisa

From: Berthiaume, Christopher <BerthiaumeC@wseinc.com>
Sent: Monday, January 27, 2020 3:44 PM
To: Bobbi Aloisa
Cc: Bartosz, Ryan
Subject: BSB - Activation Request

Bobbi,

Could you please activate the five samples from last week's (1/23/20) sampling event for Berlin Settling Basin with the following names:

B-253-1 (0-0.5')
B-253-2 (3-4')
B-253-3 (7-8')
B-253-4 (10-12')
B-253-5 (14-15')

Unfortunately I do not know the lab ID's. We would like these activated for PCB's by Soxhlet with the fastest possible TAT (24 hour if possible). The details from the COC (like required reporting limits, billing info, etc.) will apply.

Thank you,
Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

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Bobbi Aloisa

From: Berthiaume, Christopher <BerthiaumeC@wseinc.com>
Sent: Monday, January 27, 2020 3:44 PM
To: Bobbi Aloisa
Cc: Bartosz, Ryan
Subject: BSB - Activation Request

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Thank you,
Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

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Cooler: Yes [X] No [ ]
Coolant: IPK [X] 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 2.9 Pg 1 of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: buchster@wsp.com

Customer: Westfarm Services
Address: Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Buchster
Invoice to: Eversource Matt Calvert
QUOTE # PO # 10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/23/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs (Soil Lab only)	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container [ ] methanol [ ] H2O	GL Soil container [ ] 8 oz [ ] 4 oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] HCl	Pl. As is [ ] 250ml [ ] 250ml [ ] H2SO4	Pl. H2SO4 [ ] 250ml [ ] 250ml [ ] 1000ml	Pl. HNO3 250ml	Pl. NaOH 250ml	Bacteria Bottle white	Bacteria Bottle as is
18498	B-248 (0-0.5')	S	1/23/20	1311	X			1									
18499	B-248 (3-4.0')			1312	X			1									
18500	B-248 (7-8.0')			1313	X			1									
18501	B-248 (10-12')			1314	X			1									
18502	B-248 (12-13')			1315	X			1									
18503	B-249 (0-0.5')			1320	X			1									
18504	B-249 (3-4.0')			1331	X				1								
18505	B-249 (7-8.0')			1332	X				1								
18506	B-249 (10-12')			1333	X				1								
18507	B-249 (14-15')			1334	X				1								
18508	B-250 (0-0.5')			1350	X				1								
18509	B-250 (3-4.0')	↓	↓	1351	X				1								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1.23.20	15:47
[signature]	[signature]	1.23.20	1430

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o
Matthew.Calvert@eversource.com
Reference PO # 10964163

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

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

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

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

State where samples were collected: CT

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

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

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

Cooler: Yes ☒ No ☐ Coolant: IPK ☒ ICE ☐ Temp 2.9 Pg 1 of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: barbara.rose@eversource.com

Customer: Weston + Sampson
Address: 272 Riverbend Rd
Stow MA

Project: Beckley Station
Report to: Ryan Barbosa
Invoice to: Eversource - Matt Calvert
QUOTE # PO # 10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 4/23/26

Client Sample - Information - Identification

Matrix Codes: 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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
18511	B-250 (2-8.0)	S	4/23/26	1358
18511	B-250 (10-12.0)			1353
18512	B-250 (14-16.0)			1354
18513	B-251(0-0.5')			1400
18514	B-251(3-4.0')			1401
18515	B-251 (7-8.0)			1402
18516	B-251(10-12.0)			1403
18517	B-251(14-15.0)			1404
18518	B-252(0-0.5')			1420
18519	B-252(3-4.0)			1421
18520	B-252(7-8.0)			1422
18521	B-252(10-12.0)	↓	↓	1423

Analysis Request

PCBs (soxhlet ext.)

GL Amber 8 oz. w/H3PO4
Soil VOA Vials [ ] methanol [ ] H2O
GL Soil containers [ ] 8 oz
GL Soil container [ ] 4 oz
40 ml VOA Vial [ ] As is [ ] HCl
GL Amber 1000ml [ ] As is [ ] H2SO4 [ ] 1000ml
Pl. As is [ ] 250ml [ ] As is [ ] 500ml [ ] 500ml
Pl. H2SO4 [ ] 250ml [ ]
Pl. HNO3 250ml
Pl. NaOH 250ml
Bacteria Bottle w/thio
Bacteria Bottle as is

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	4/23/26	15:47
[signature]	[signature]	4/23/26	1330

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

RI: ☐ Direct Exposure (Residential) ☐ GW ☐ Other

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

MA: ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

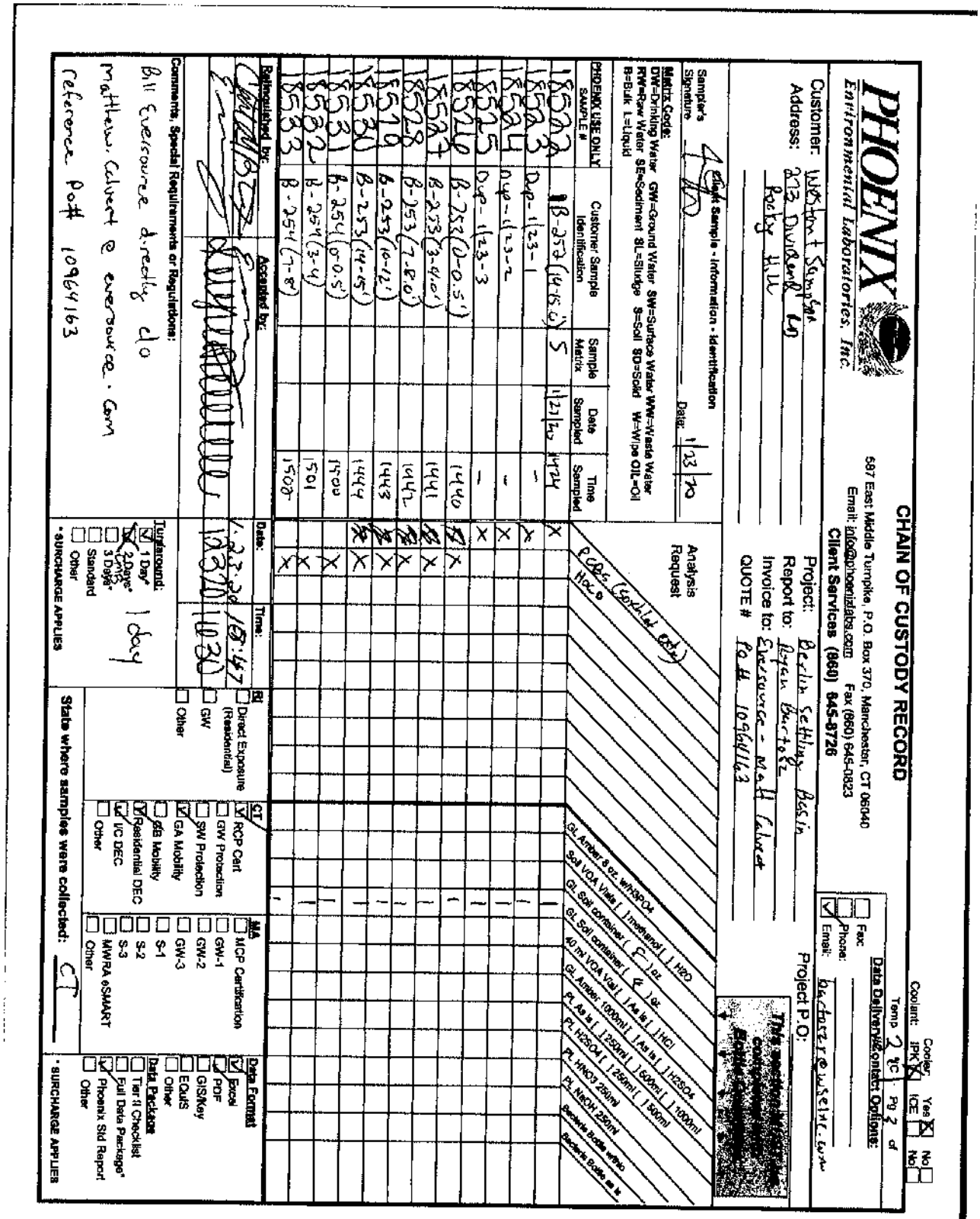
Data Format: ☒ Excel ☐ PDF ☐ GISKey ☐ EQUIS ☐ Other

Data Package: ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other

*SURCHARGE APPLIES

Comments, Special Requirements or Regulations:
Bill eversource directly c/o Matt Calvert
matthew.calvert@eversource.com
reference PO# 10964163 *JAR NOT FILED (KJ) EMCU UCI UIUT

State where samples were collected: CT



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

Cooler: Yes ☒ No ☐ Coolant: IPK ☒ ICE ☐ Temp 2 °C Pg 2 of

Data Delivery & Contact Options:
☐ Fax:
☐ Phone:
☑ Email: bachester@eversource.com

Customer: Weston + Sampson
Address: 212 Durham Rd
Rocky Hill

Project: Berlin Settling Basin
Report to: Bryan Bachtold
Invoice to: Eversource - Matt Calvert
QUOTE # PO # 10964163

Project P.O:

Sampler's Signature: [signature] Date: 1/23/26

Client Sample - Information - Identification

Matrix Codes: 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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: PCBs (Soxhlet Extr.) Hex. D	GL Amber 8 oz. wH2SO4	8oz VOA Vials [ ] methanol [ ] H2O	GL Soil container (g) oz.	GL Soil container (g) oz.	40 mL VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] As is [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle wHNO3	Bacteria Bottle as is
18523	B-253 (14-15.5')	S	1/21/26	1124	X												
18524	DUP-1123-1		-	-	X												
18525	DUP-1123-2		-	-	X												
18526	B-252 (0-0.5')			1440	X												
18527	B-253 (3-4.5')			1441	X												
18528	B-253 (7-8.5')			1442	X												
18529	B-253 (10-12')			1443	X												
18530	B-253 (14-15')			1444	X												
18531	B-254 (0-0.5')			1500		X											
18532	B-254 (3-4)			1501		X											
18533	B-254 (7-8)			1503		X											

Relinquished by: [signature] Date: 1.23.26 Time: 15:47
Accepted by: [signature] 1/23/26 1630

Turnaround: ☑ 1 Day* ☐ 2 Days* ☐ 3 Days* ☐ Standard ☐ Other
1 day
* SURCHARGE APPLIES

RI: ☐ Direct Exposure (Residential) ☐ GW ☐ Other

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

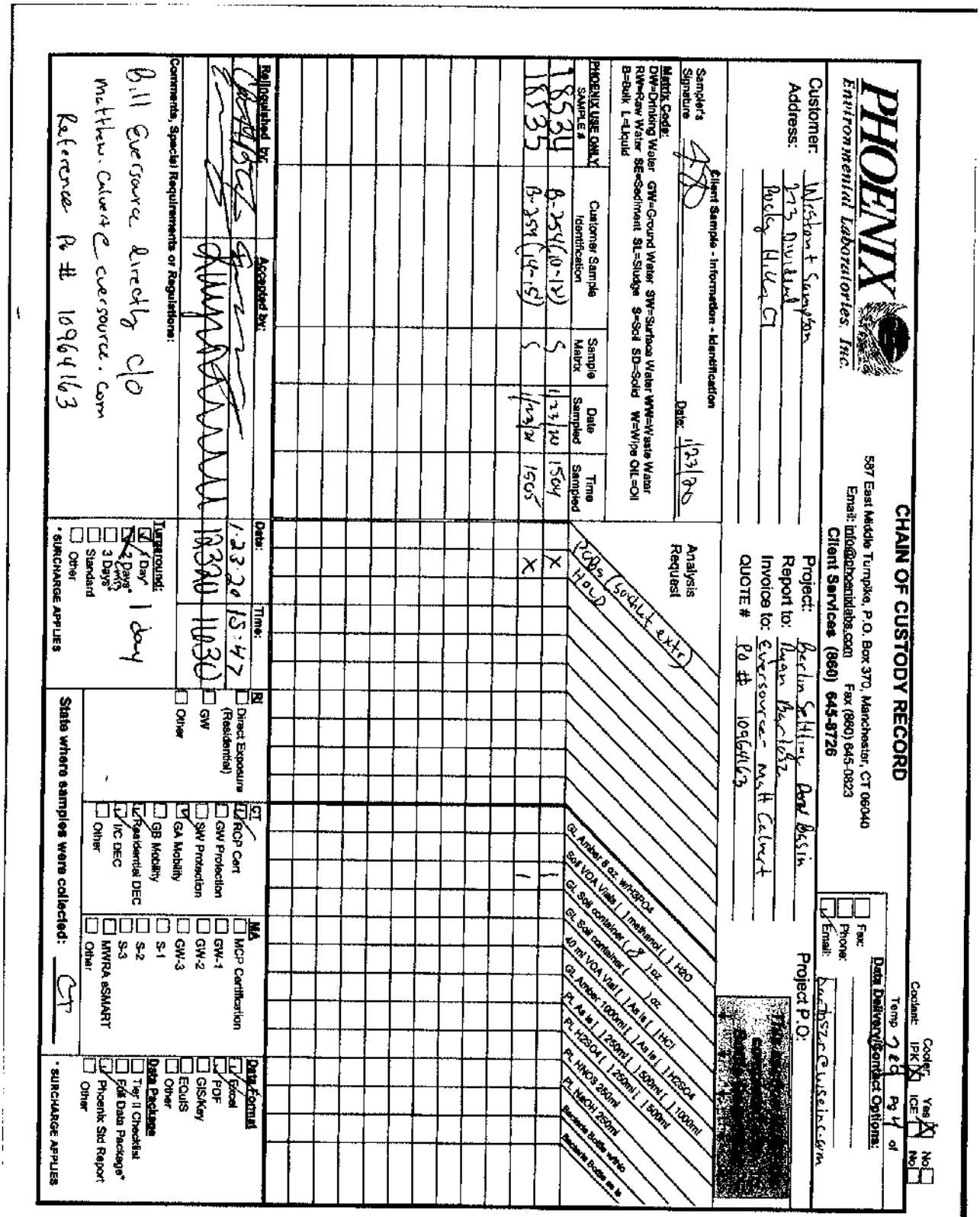
MA: ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA ☐ MWRA eSMART ☐ Other

Data Format: ☑ Excel ☐ PDF ☐ GIS/Key ☐ EQuIS ☐ Other

Data Packages: ☐ Tier II Checklist ☐ Full Data Package* ☑ Phoenix Std Report ☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
reference PO# 10964163



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

Cooler: Yes ☒ No ☐ Coolant: IPK ☒ ICE ☐ Temp 2.6 °C
Data Delivery/Contact Options: Fax: ☐ Phone: ☐ Email: ☑ kwebster@eversource.com
Project: Berlin Schilling Road Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE #: PO # 10964163
Project P.O:

Client Sample - Information - Identification
Sampler's Signature: [signature] Date: 1/23/26

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
18534	B-254(10-12)	S	1/23/26	1504
18535	B-254(14-15)	S	1/23/26	1505

Analysis Request: PCBs (Soxhlet extr) Hold

GL Amber 8 oz. w/H2SO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz.	Soil container ( ) oz.	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] As is [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Residuals Bottle w/preservative	Residuals Bottle as is
X		1		X		1					
X		1		X		1					

Relinquished by: [signature] Date: 1.23.26 Time: 15:47
Accepted by: [signature] Date: 1/23/26 Time: 1830

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

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
Reference PO # 10964163

RI: ☐ Direct Exposure (Residential) ☐ GW ☐ Other
CT: ☑ RCP Cert ☐ GW Protection ☐ SW Protection ☑ GA Mobility ☐ GB Mobility ☑ Residential DEC ☐ I/C DEC ☐ Other
MA: ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other
State where samples were collected: CT
* SURCHARGE APPLIES

Data Format: ☑ Excel ☐ PDF ☐ GIS/Key ☐ EQuIS ☐ Other
Data Package: ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other
* SURCHARGE APPLIES

gcf 18510

Kayla Tomkiel

From: Kayla Tomkiel
Sent: Thursday, January 23, 2020 5:44 PM
To: 'bartoszr@wseinc.com'
Subject: Berlin project

Good Evening,

We picked up samples for your Berlin project today, but there was one jar that is empty.

The ID is B-251 (3-4.0')

Please let me know if you have any questions

Have a great night

Kayla Tomkiel

Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
PH: 860-645-1102
FX: 860-645-0823

Sarah Bell

From: Sarah Bell
Sent: Tuesday, January 28, 2020 10:20 AM
To: Shannon Wilhelm
Cc: Sarah Bell
Subject: FW: BSB - Sample Activation Request

From: Berthiaume, Christopher [mailto:BerthiaumeC@wseinc.com]
Sent: Tuesday, January 28, 2020 9:50 AM
To: Sarah Bell
Cc: Bartosz, Ryan
Subject: BSB - Sample Activation Request

Sarah,

Could you please activate the following samples for PCB analysis by Soxhlet on the quickest possible TAT?

CF18531	B-254-1 (0-0.5')
CF18532	B-254-2 (3-4')
CF18533	B-254-3 (7-8')
CF18534	B-254-4 (10-12')
CF18535	B-254-5 (14-15')
CF21562	B-258-1 (0-0.5')
CF21563	B-258-2 (3-4')
CF21564	B-258-3 (7-8')
CF21565	B-258-4 (10-12')
CF21566	B-258-5 (14-15')

Unfortunately I do not know the lab ID's for the last 5 samples as they were submitted only last night (on hold) and I haven't yet received a work order. The details regarding reporting limits, billing instructions, etc., will apply from the respective COCs that these samples were submitted under.

I have a second request as well. Could you please give me access to all of the Berlin Settling Basin work orders from last week? I only have access to about half of the work orders through the online portal.

Thank you,
Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

Facebook | Twitter | LinkedIn

The contents of this e-mail and any attachments are the property of the Weston & Sampson companies. The e-mail contents are only to be used by the intended recipient of the e-mail. If you are not the intended recipient, then use, disclosure, copying, distribution or reliance on the e-mail is prohibited. All professional advice from us should be obtained in writing (not e-mail).

Cooler: Yes [X] No [ ]
Coolant: IPK [X] 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 2 pd Pg 1 of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[√] Email: bartoszr@wsinc.com

Customer: Weston & Sampson
Address: Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource Matt Calvert
QUOTE # Po # 10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature
Date: 1/23/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs (Soxhlet extr.)	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) 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
18498	B-248 (0-0.5')	S	1/23/20	1311	X			1									
18499	B-248 (3-4.0')			1312	X			1									
18500	B-248 (7-8.0')			1313	X			1									
18501	B-248 (10-12')			1314	X			1									
18502	B-248 (12-13')			1315	X			1									
18503	B-249 (0-0.5')			1320	X			1									
18504	B-249 (3-4.0')			1331	X				1								
18505	B-249 (7-8.0')			1332	X				1								
18506	B-249 (10-12')			1333	X				1								
18507	B-249 (14-15')			1334	X				1								
18508	B-250 (0-0.5')			1350	X				1								
18509	B-250 (3-4.0')	↓	↓	1351	X				1								

Relinquished by:	Accepted by:	Date:	Time:
		1.23.20	15:47
		1/23/20	1430

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o
Matthew.Calvert@eversource.com
Reference Po # 10964163

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

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

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

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

State where samples were collected: CT

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

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

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 681 of 2201

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 2.9 Pg 1 of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[✓] Email: bartoszr@wse inc.com

Customer: Weston + Sampson
Address: 273 Dividend Rd
Rocky Hill

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO # 10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/23/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs (Soxhlet extr.)	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) 1oz	GL Soil container ( ) 1oz	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/hio	Bacteria Bottle as is
18510	B-250 (7-8.0')	S	1/23/20	1352	X			1									
18511	B-250 (10-12.0')			1353	X			1									
18512	B-250 (14-15.0')			1354	X			1									
18513	B-251 (0-0.5')			1400	X			1									
* 18514	B-251 (3-4.0')			1401	X			1									
18515	B-251 (7-8.0')			1402	X			1									
18516	B-251 (10-12.0')			1403	X			1									
18517	B-251 (14-15.0')			1404	X			1									
18518	B-252 (0-0.5')			1420	X				1								
18519	B-252 (3-4.0')			1421	X				1								
18520	B-252 (7-8.0')			1422	X												
18521	B-252 (10-12.0')	↓	↓	1423	X			1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1-23-20	15:47
[signature]	[signature]	1/23/20	1630

Comments, Special Requirements or Regulations:
Bill eversource directly c/o. matt Calvert
matthew.calvert@eversource.com
reference (PO# 10964163) *JAR NOT filled
(KT) emailed client

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

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

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

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

State where samples were collected: CT

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

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

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 682 of 2201

1

Kayla Tomkiel

From: Kayla Tomkiel
Sent: Thursday, January 23, 2020 5:44 PM
To: 'bartoszr@wseinc.com'
Subject: Berlin project

Good Evening,

We picked up samples for your Berlin project today, but there was one jar that is empty.

The ID is B-251 (3-4.0')

Please let me know if you have any questions

Have a great night

Kayla Tomkiel

Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
PH: 860-645-1102
FX: 860-645-0823

gct 18510

PHOENIX
Environmental Laboratories, Inc.

Monday, February 03, 2020

Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Project ID: BERLIN SETTLING BASIN
SDG ID: GCF21547
Sample ID#s: CF21547 - CF21576, CF21587 - CF21596, CF21607 - CF21609

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

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



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

Sample Id Cross Reference

February 03, 2020

SDG I.D.: GCF21547

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
B-255-1 (0.0-0.5FT)	CF21547	SOIL
B-255-2 (3.0-4.0FT)	CF21548	SOIL
B-255-3 (7.0-8.0FT)	CF21549	SOIL
B-255-4 (10.0-12.0FT)	CF21550	SOIL
B-255-5 (14.0-15.0FT)	CF21551	SOIL
B-256-1 (0.0-0.5FT)	CF21552	SOIL
B-256-2 (3.0-4.0FT)	CF21553	SOIL
B-256-3 (7.0-8.0FT)	CF21554	SOIL
B-256-4 (10.0-12.0FT)	CF21555	SOIL
B-256-5 (14.0-15.0FT)	CF21556	SOIL
B-257-1 (0.0-0.5FT)	CF21557	SOIL
B-257-2 (3.0-4.0FT)	CF21558	SOIL
B-257-3 (7.0-8.0FT)	CF21559	SOIL
B-257-4 (10.0-12.0FT)	CF21560	SOIL
B-257-5 (14.0-15.0FT)	CF21561	SOIL
B-258-1 (0.0-0.5FT)	CF21562	SOIL
B-258-2 (3.0-4.0FT)	CF21563	SOIL
B-258-3 (7.0-8.0FT)	CF21564	SOIL
B-258-4 (10.0-12.0FT)	CF21565	SOIL
B-258-5 (14.0-15.0FT)	CF21566	SOIL
B-259-1 (0.0-0.5FT)	CF21567	SOIL
B-259-2 (3.0-4.0FT)	CF21568	SOIL
B-259-3 (7.0-8.0FT)	CF21569	SOIL
B-259-4 (10.0-12.0FT)	CF21570	SOIL
B-259-5 (14.0-15.0FT)	CF21571	SOIL
B-260-1 (0.0-0.5FT)	CF21572	SOIL
B-260-2 (3.0-4.0FT)	CF21573	SOIL
B-260-3 (7.0-8.0FT)	CF21574	SOIL
B-260-4 (10.0-12.0FT)	CF21575	SOIL
B-260-5 (14.0-15.0FT)	CF21576	SOIL

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

February 03, 2020

SDG I.D.: GCF21547

Project ID: BERLIN SETTLING BASIN

Client Id	Lab Id	Matrix
B-263-1 (0.0-0.5FT)	CF21587	SOIL
B-263-2 (3.0-4.0FT)	CF21588	SOIL
B-263-3 (7.0-8.0FT)	CF21589	SOIL
B-263-4 (10.0-12.0FT)	CF21590	SOIL
B-263-5 (14.0-15.0FT)	CF21591	SOIL
B-264-1 (0.0-0.5FT)	CF21592	SOIL
B-264-2 (3.0-4.0FT)	CF21593	SOIL
B-264-3 (7.0-8.0FT)	CF21594	SOIL
B-264-4 (10.0-12.0FT)	CF21595	SOIL
B-264-5 (14.0-15.0FT)	CF21596	SOIL
B-251-2 (3.0-4.0FT)	CF21607	SOIL
DUP-0127-1	CF21608	SOIL
DUP-0127-2	CF21609	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

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	9:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21547

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	124		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	121		%	10	01/30/20	SC	30 - 150 %
% TCMX	111		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	102		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-1 (0.0-0.5FT)
Phoenix I.D.: CF21547

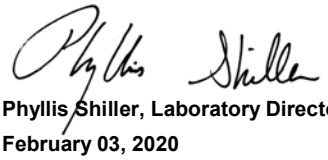
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
February 03, 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

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	9:55
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21548

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	2400	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	123		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	122		%	10	01/30/20	SC	30 - 150 %
% TCMX	107		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-2 (3.0-4.0FT)
Phoenix I.D.: CF21548

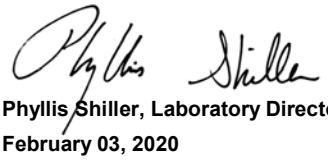
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
February 03, 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

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21549

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	102		%	10	01/30/20	SC	30 - 150 %
% TCMX	92		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-3 (7.0-8.0FT)

Phoenix I.D.: CF21549

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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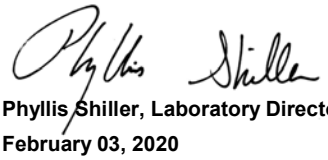

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:05
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21550

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	124		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	119		%	10	01/30/20	SC	30 - 150 %
% TCMX	114		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	108		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-4 (10.0-12.0FT)

Phoenix I.D.: CF21550

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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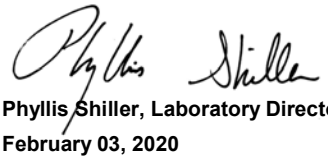

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21551

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	124		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	119		%	10	01/30/20	SC	30 - 150 %
% TCMX	109		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	100		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-255-5 (14.0-15.0FT)
Phoenix I.D.: CF21551

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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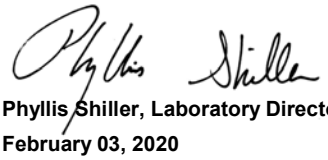

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:15
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21552

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	114		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	01/28/20	SC	30 - 150 %
% TCMX	87		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-1 (0.0-0.5FT)
Phoenix I.D.: CF21552

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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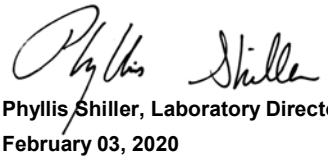

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:20
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21553

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	4100	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	96		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	01/28/20	SC	30 - 150 %
% TCMX	73		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-2 (3.0-4.0FT)
Phoenix I.D.: CF21553

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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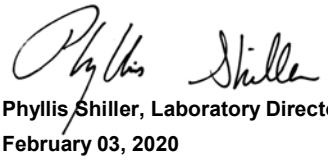

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February 03, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:25
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21554

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	105		%	10	01/28/20	SC	30 - 150 %
% TCMX	75		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	74		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-3 (7.0-8.0FT)
Phoenix I.D.: CF21554

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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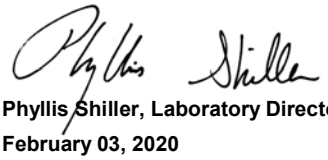

Phyllis Shiller, Laboratory Director
February 03, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:30
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21555

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	143		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	132		%	10	01/28/20	SC	30 - 150 %
% TCMX	122		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	126		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-4 (10.0-12.0FT)

Phoenix I.D.: CF21555

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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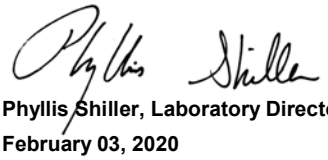

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:35
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21556

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	105		%	10	01/28/20	SC	30 - 150 %
% TCMX	72		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-256-5 (14.0-15.0FT)
Phoenix I.D.: CF21556

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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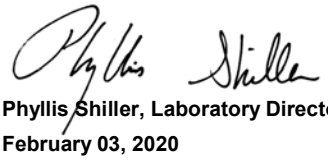

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21557

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	99		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	01/28/20	SC	30 - 150 %
% TCMX	75		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-1 (0.0-0.5FT)
Phoenix I.D.: CF21557

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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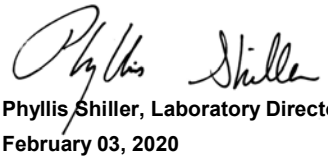

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:45
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21558

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	1500	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	108		%	10	01/28/20	SC	30 - 150 %
% TCMX	73		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-2 (3.0-4.0FT)
Phoenix I.D.: CF21558

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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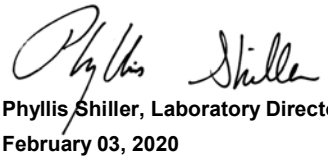

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21559

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	108		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	115		%	10	01/28/20	SC	30 - 150 %
% TCMX	94		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	96		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-3 (7.0-8.0FT)
Phoenix I.D.: CF21559

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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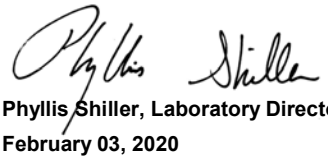

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	10:55
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21560

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	100		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	94		%	10	01/28/20	SC	30 - 150 %
% TCMX	86		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-4 (10.0-12.0FT)
Phoenix I.D.: CF21560

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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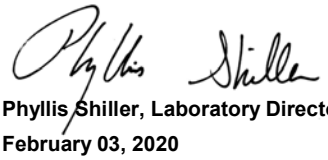

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21561

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	86		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	01/28/20	SC	30 - 150 %
% TCMX	73		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	74		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-257-5 (14.0-15.0FT)
Phoenix I.D.: CF21561

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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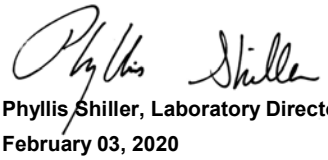

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:05
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21562

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/28/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	590	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	90		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	102		%	10	01/29/20	SC	30 - 150 %
% TCMX	95		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	96		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-1 (0.0-0.5FT)
Phoenix I.D.: CF21562

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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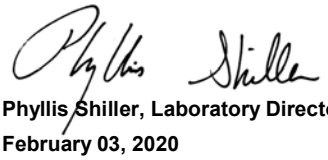

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21563

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/28/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	1100	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	110		%	10	01/29/20	SC	30 - 150 %
% TCMX	93		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	91		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-2 (3.0-4.0FT)
Phoenix I.D.: CF21563

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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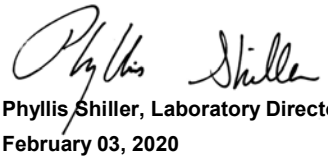

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:15
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21564

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/28/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	100		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	111		%	10	01/29/20	SC	30 - 150 %
% TCMX	102		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	104		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-3 (7.0-8.0FT)
Phoenix I.D.: CF21564

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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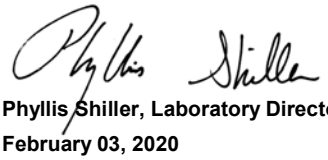

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:20
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21565

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/28/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	115		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	128		%	10	01/29/20	SC	30 - 150 %
% TCMX	100		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	103		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-4 (10.0-12.0FT)

Phoenix I.D.: CF21565

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
February 03, 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

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:25
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21566

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		01/28/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	119		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	130		%	10	01/29/20	SC	30 - 150 %
% TCMX	104		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	106		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-258-5 (14.0-15.0FT)
Phoenix I.D.: CF21566

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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Comments:

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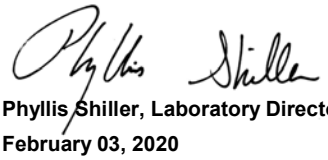

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:30
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21567

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	106		%	10	01/30/20	SC	30 - 150 %
% TCMX	98		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	100		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-1 (0.0-0.5FT)
Phoenix I.D.: CF21567

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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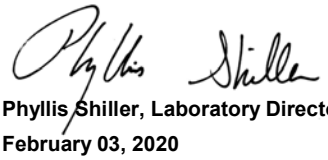

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:35
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21568

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1221	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1232	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1242	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1248	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1254	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1260	95000	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1262	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
PCB-1268	ND	39000	ug/Kg	1000	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	01/30/20	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-2 (3.0-4.0FT)

Phoenix I.D.: CF21568

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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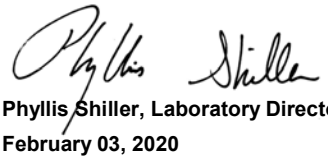

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21569

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	106		%	10	01/30/20	SC	30 - 150 %
% TCMX	84		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-3 (7.0-8.0FT)
Phoenix I.D.: CF21569

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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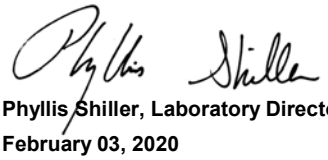

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:45
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21570

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	114		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	106		%	10	01/30/20	SC	30 - 150 %
% TCMX	96		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-4 (10.0-12.0FT)

Phoenix I.D.: CF21570

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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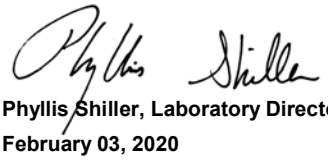

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21571

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		01/29/20	VT	SW846-%Solid
Extraction for PCB	Completed				01/29/20	BB/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/30/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	118		%	10	01/30/20	SC	30 - 150 %
% DCBP (Confirmation)	113		%	10	01/30/20	SC	30 - 150 %
% TCMX	94		%	10	01/30/20	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	01/30/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-259-5 (14.0-15.0FT)
Phoenix I.D.: CF21571

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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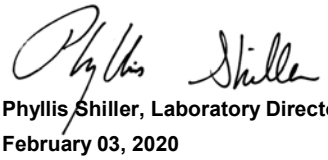

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	11:55
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21572

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	104		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	01/28/20	SC	30 - 150 %
% TCMX	83		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-1 (0.0-0.5FT)
Phoenix I.D.: CF21572

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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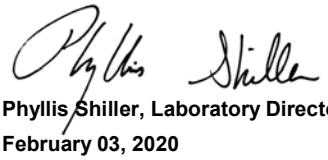

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21573

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	86		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	01/28/20	SC	30 - 150 %
% TCMX	69		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-2 (3.0-4.0FT)

Phoenix I.D.: CF21573

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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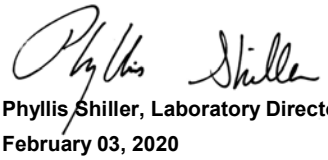

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:05
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21574

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	01/28/20	SC	30 - 150 %
% TCMX	59		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	59		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-3 (7.0-8.0FT)

Phoenix I.D.: CF21574

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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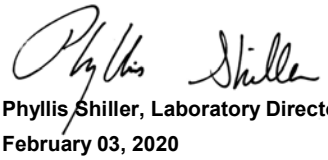

Phyllis Shiller, Laboratory Director
February 03, 2020
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Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21575

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	84		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	81		%	10	01/28/20	SC	30 - 150 %
% TCMX	52		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	52		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-4 (10.0-12.0FT)

Phoenix I.D.: CF21575

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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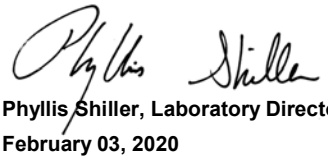

Phyllis Shiller, Laboratory Director
February 03, 2020
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Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:15
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21576

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	112		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	114		%	10	01/28/20	SC	30 - 150 %
% TCMX	91		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-260-5 (14.0-15.0FT)
Phoenix I.D.: CF21576

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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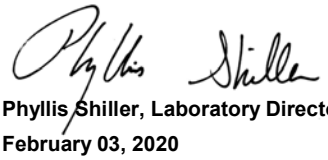

Phyllis Shiller, Laboratory Director
February 03, 2020
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Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:20
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21587

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	78		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	01/28/20	SC	30 - 150 %
% TCMX	63		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	64		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-1 (0.0-0.5FT)
Phoenix I.D.: CF21587

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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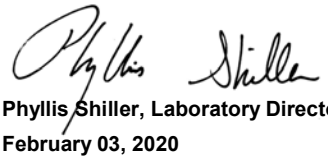

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February 03, 2020
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Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:25
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21588

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	400	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	01/28/20	SC	30 - 150 %
% TCMX	66		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	69		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-2 (3.0-4.0FT)

Phoenix I.D.: CF21588

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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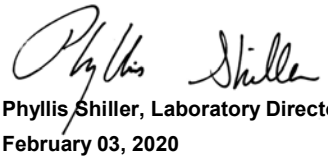

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:30
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21589

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	420	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	01/28/20	SC	30 - 150 %
% TCMX	70		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-3 (7.0-8.0FT)
Phoenix I.D.: CF21589

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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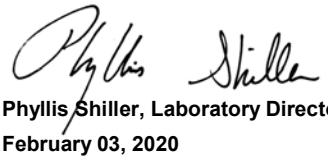

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:35
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21590

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	58		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	67		%	10	01/28/20	SC	30 - 150 %
% TCMX	45		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	44		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-4 (10.0-12.0FT)
Phoenix I.D.: CF21590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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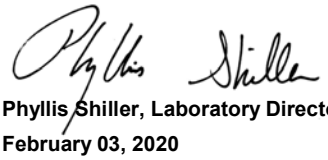

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21591

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	140		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	143		%	10	01/28/20	SC	30 - 150 %
% TCMX	115		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	115		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-263-5 (14.0-15.0FT)
Phoenix I.D.: CF21591

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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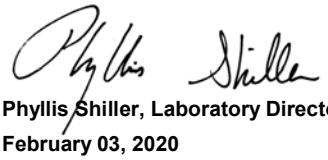

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:45
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21592

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-1 (0.0-0.5FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	109		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	107		%	10	01/28/20	SC	30 - 150 %
% TCMX	95		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	93		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-1 (0.0-0.5FT)
Phoenix I.D.: CF21592

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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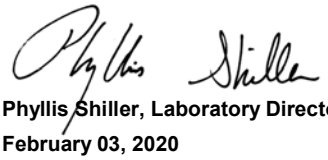

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February 03, 2020
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Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21593

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	141		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	138		%	10	01/28/20	SC	30 - 150 %
% TCMX	124		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	119		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-2 (3.0-4.0FT)

Phoenix I.D.: CF21593

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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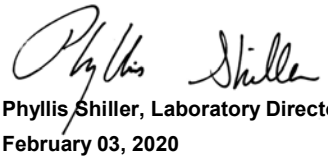

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February 03, 2020
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Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	12:55
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21594

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-3 (7.0-8.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	125		%	10	01/28/20	SC	30 - 150 %
% TCMX	95		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-3 (7.0-8.0FT)
Phoenix I.D.: CF21594

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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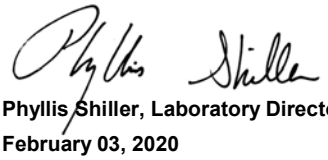

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	13:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21595

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-4 (10.0-12.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	109		%	10	01/28/20	SC	30 - 150 %
% TCMX	100		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	105		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-4 (10.0-12.0FT)

Phoenix I.D.: CF21595

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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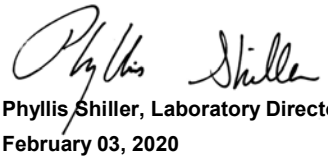

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	13:05
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21596

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-5 (14.0-15.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/28/20	S/H/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/29/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	01/29/20	SC	30 - 150 %
% DCBP (Confirmation)	110		%	10	01/29/20	SC	30 - 150 %
% TCMX	97		%	10	01/29/20	SC	30 - 150 %
% TCMX (Confirmation)	99		%	10	01/29/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-264-5 (14.0-15.0FT)
Phoenix I.D.: CF21596

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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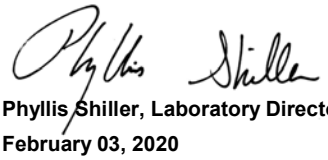

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	14:05
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21607

Project ID: BERLIN SETTLING BASIN
Client ID: B-251-2 (3.0-4.0FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	129		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	132		%	10	01/28/20	SC	30 - 150 %
% TCMX	107		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	107		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-251-2 (3.0-4.0FT)
Phoenix I.D.: CF21607

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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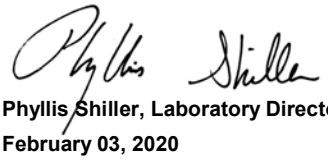

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21608

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0127-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	116		%	10	01/28/20	SC	30 - 150 %
% TCMX	81		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	83		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0127-1

Phoenix I.D.: CF21608

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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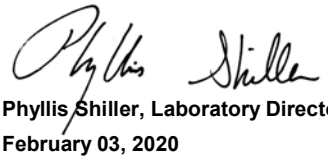

Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

February 03, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	01/27/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	B	01/27/20	16:08
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF21547
Phoenix ID: CF21609

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0127-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		01/27/20	JS	SW846-%Solid
Extraction for PCB	Completed				01/27/20	BH/VT/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	01/28/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	90		%	10	01/28/20	SC	30 - 150 %
% DCBP (Confirmation)	103		%	10	01/28/20	SC	30 - 150 %
% TCMX	90		%	10	01/28/20	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	01/28/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0127-2

Phoenix I.D.: CF21609

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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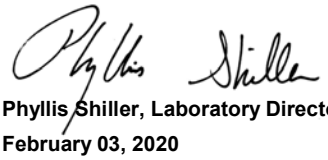


Phyllis Shiller, Laboratory Director
February 03, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

February 03, 2020

QA/QC Data

SDG I.D.: GCF21547

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 516080 (ug/Kg), QC Sample No: CF20848 10X (CF21591, CF21592, CF21593, CF21594, CF21595, CF21607, CF21608, CF21609)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	97	100	3.0	86	92	6.7	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	106	108	1.9	95	99	4.1	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	102	%	118	121	2.5	109	112	2.7	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	97	%	123	120	2.5	107	111	3.7	30 - 150	30	
% TCMX (Surrogate Rec)	84	%	116	106	9.0	92	97	5.3	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	87	%	108	113	4.5	97	100	3.0	30 - 150	30	
QA/QC Batch 516400 (ug/Kg), QC Sample No: CF20849 10X (CF21547, CF21548, CF21549, CF21550, CF21551, CF21567, CF21568, CF21569, CF21570, CF21571)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	96	95	1.0				40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	99	103	4.0				40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	111	%	107	120	11.5				30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	110	%	109	132	19.1				30 - 150	30	
% TCMX (Surrogate Rec)	103	%	99	99	0.0				30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	104	%	102	102	0.0				30 - 150	30	
Comment:											
Due to PCB in the unspiked sample, MS/MSD could not be reported.											
QA/QC Batch 516079 (ug/Kg), QC Sample No: CF21555 10X (CF21552, CF21553, CF21554, CF21555, CF21556, CF21557, CF21558, CF21559, CF21560, CF21561, CF21572, CF21573, CF21574, CF21575, CF21576, CF21587, CF21588, CF21589, CF21590)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	116	91	24.2	66	91	31.8	40 - 140	30	r
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	

QA/QC Data

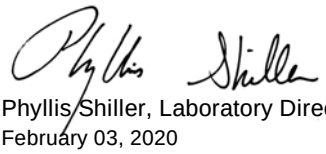
SDG I.D.: GCF21547

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	123	99	21.6	73	102	33.1	40 - 140	30	r
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	106	%	130	122	6.3	86	129	40.0	30 - 150	30	r
% DCBP (Surrogate Rec) (Confirm	123	%	149	127	15.9	88	131	39.3	30 - 150	30	r
% TCMX (Surrogate Rec)	105	%	129	90	35.6	65	98	40.5	30 - 150	30	r
% TCMX (Surrogate Rec) (Confirm	106	%	134	92	37.2	68	100	38.1	30 - 150	30	r
QA/QC Batch 516197 (ug/Kg), QC Sample No: CF21732 10X (CF21562, CF21563, CF21564, CF21565, CF21566, CF21596)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	89	100	11.6	90	97	7.5	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	92	105	13.2	98	104	5.9	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	112	%	109	114	4.5	96	112	15.4	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	111	%	106	94	12.0	120	107	11.5	30 - 150	30	
% TCMX (Surrogate Rec)	101	%	98	106	7.8	94	101	7.2	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	99	%	101	108	6.7	97	103	6.0	30 - 150	30	

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
February 03, 2020

Monday, February 03, 2020
Criteria: CT: GAM, I/C, RC
State: CT

Sample Criteria Exceedances Report

GCF21547 - WESTSAM-EVERBERLIN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF21548	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	2400	370	1000	1000	ug/Kg
CF21548	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	2400	370	1000	1000	ug/Kg
CF21553	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	4100	370	1000	1000	ug/Kg
CF21553	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	4100	370	1000	1000	ug/Kg
CF21558	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	1500	390	1000	1000	ug/Kg
CF21558	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1500	390	1000	1000	ug/Kg
CF21563	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	1100	380	1000	1000	ug/Kg
CF21563	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1100	380	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	95000	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1016	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1221	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1254	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1242	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1268	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1262	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1248	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1232	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	ND	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1260	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	95000	39000	10000	10000	ug/Kg
CF21568	$PCB_SOXR	PCB-1262	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	95000	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1232	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1248	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1016	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1242	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1268	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1221	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	1000	1000	ug/Kg
CF21568	$PCB_SOXR	PCB-1254	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	39000	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:*** Weston & Sampson

Project Location: BERLIN SETTLING BASIN ***Project Number:***

Laboratory Sample ID(s): CF21547-CF21576, CF21587-CF21596, CF21607-CF21609 ***Sampling Date(s):*** 1/27/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

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: PCB Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?**	☑ Yes ☐ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
7	**Are project-specific matrix spikes and laboratory duplicates included in 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:** Monday, February 03, 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

February 03, 2020

SDG I.D.: GCF21547

PCB Narration

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

QC Batch 516079 (Samples: CF21552, CF21553, CF21554, CF21555, CF21556, CF21557, CF21558, CF21559, CF21560, CF21561, CF21572, CF21573, CF21574, CF21575, CF21576, CF21587, CF21588, CF21589, CF21590): -----

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% TCMX (Surrogate Rec), % TCMX (Surrogate Rec) (Confirmation))

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (PCB-1016, PCB-1260)

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% DCBP (Surrogate Rec), % DCBP (Surrogate Rec) (Confirmation), % TCMX (Surrogate Rec), % TCMX (Surrogate Rec) (Confirmation))

Instrument:

AU-ECD1 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF21556 (10X), CF21558 (10X), CF21591 (10X), CF21607 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 01/27/20-1 Saadia Chudary, Chemist 01/27/20

CF21560 (10X), CF21587 (10X), CF21589 (10X)

The initial calibration (PC1125AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1125BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 01/30/20-1 Saadia Chudary, Chemist 01/30/20

CF21568 (1000X), CF21571 (10X)

The initial calibration (PC1125AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1125BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD29 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF21552 (10X), CF21561 (10X), CF21594 (10X)

The initial calibration (PC115AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC115BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD29 01/29/20-1 Saadia Chudary, Chemist 01/29/20

CF21596 (10X)

The initial calibration (PC115AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC115BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD29 01/30/20-1 Saadia Chudary, Chemist 01/30/20

CF21549 (10X), CF21567 (10X), CF21569 (10X)

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RCP Certification Report

February 03, 2020

SDG I.D.: GCF21547

PCB Narration

The initial calibration (PC115AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC115BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD3 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF21557 (10X), CF21588 (10X)

The initial calibration (PC1230AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1230BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD48 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF21555 (10X), CF21572 (10X), CF21576 (10X), CF21595 (10X)

The initial calibration (PC106AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC106BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF21553 (10X), CF21559 (10X), CF21573 (10X), CF21608 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 01/29/20-1 Saadia Chudary, Chemist 01/29/20

CF21563 (10X), CF21565 (10X), CF21566 (10X)

The initial calibration (PC114AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC114BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF21554 (10X), CF21575 (10X), CF21592 (10X), CF21593 (10X)

The initial calibration (PC1126AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1126BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:
Samples: CF21554, CF21575, CF21592, CF21593
Preceding CC 128B003 - DCBP SURR 16%H (15%)
Succeeding CC 128B018 - DCBP SURR 18%H (15%)

AU-ECD6 01/30/20-1 Saadia Chudary, Chemist 01/30/20

CF21547 (10X), CF21548 (10X), CF21550 (10X), CF21551 (10X), CF21570 (10X)

The initial calibration (PC1126AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1126BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD8 01/28/20-1 Saadia Chudary, Chemist 01/28/20

CF21574 (10X), CF21590 (10X), CF21609 (10X)

The initial calibration (PC123AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC123BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD8 01/29/20-1 Saadia Chudary, Chemist 01/29/20

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

February 03, 2020

SDG I.D.: GCF21547

PCB Narration

CF21562 (10X), CF21564 (10X)

The initial calibration (PC123AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC123BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:
Samples: CF21562, CF21564
Preceding CC 129A004 - None.
Succeeding CC 129A032 - PCB 1260 16%H (%)

QC (Batch Specific):

Batch 516080 (CF20848)

CF21591, CF21592, CF21593, CF21594, CF21595, CF21607, CF21608, CF21609

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.

Batch 516197 (CF21732)

CF21562, CF21563, CF21564, CF21565, CF21566, CF21596

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.

Batch 516400 (CF20849)

CF21547, CF21548, CF21549, CF21550, CF21551, CF21567, CF21568, CF21569, CF21570, CF21571

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.
Due to PCB in the unspiked sample, MS/MSD could not be reported.

QC (Site Specific):

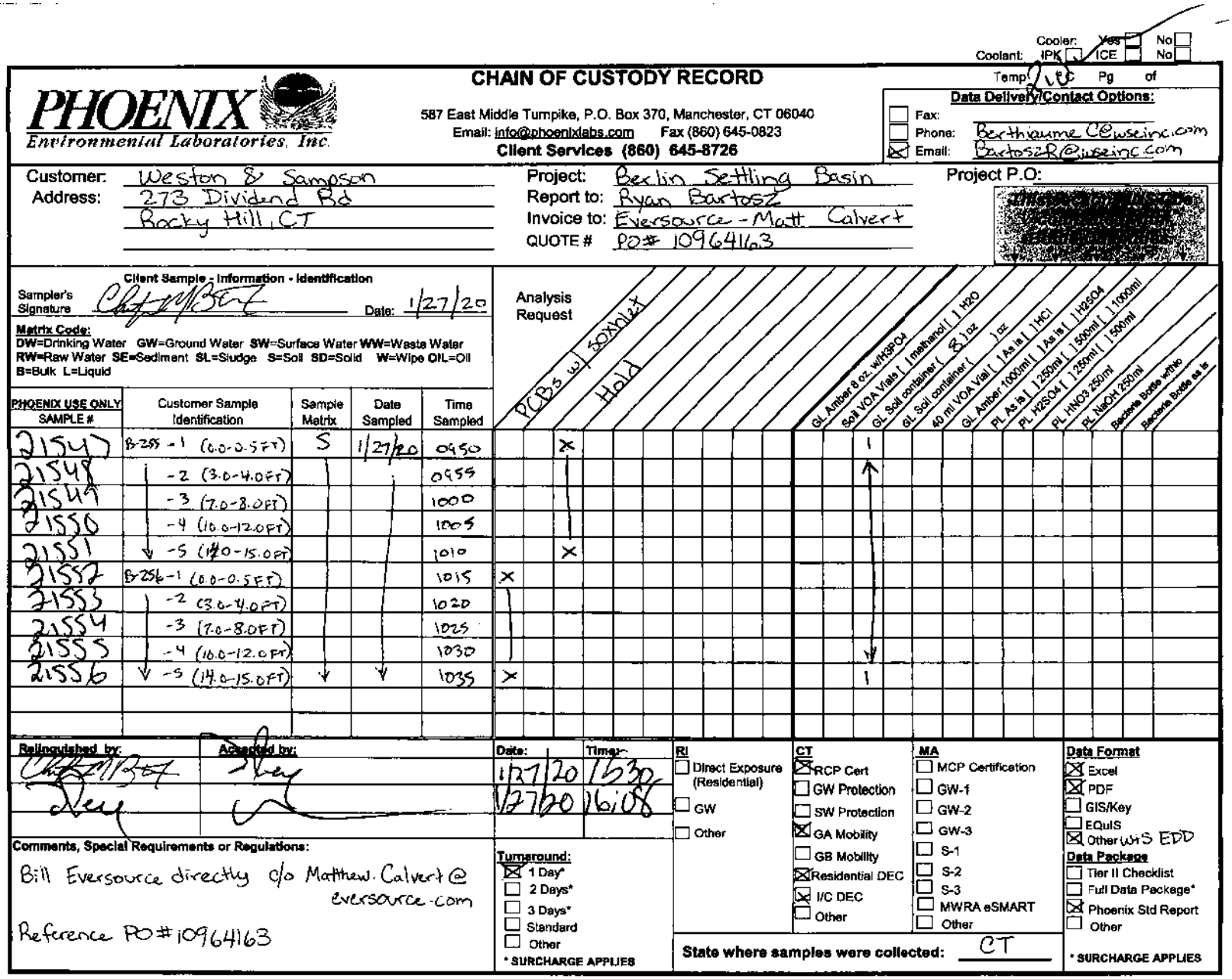
Batch 516079 (CF21555)

CF21552, CF21553, CF21554, CF21555, CF21556, CF21557, CF21558, CF21559, CF21560, CF21561, CF21572, CF21573, CF21574, CF21575, CF21576, CF21587, CF21588, CF21589, CF21590

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: % TCMX (Surrogate Rec)(35.6%), % TCMX (Surrogate Rec) (Confirmation)(37.2%)
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: % DCBP (Surrogate Rec)(40.0%), % DCBP (Surrogate Rec) (Confirmation)(39.3%), % TCMX (Surrogate Rec)(40.5%), % TCMX (Surrogate Rec) (Confirmation)(38.1%), PCB-1016(31.8%), PCB-1260(33.1%)

Temperature Narration

The samples were received at 2.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp: 2.1°C Pg of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: Berthiaume C@wseinc.com
☒ Email: BartoszR@wseinc.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO# 10964163

Project P.O:

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/27/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs w/ soxhlet	Hold	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
21547	B-255-1 (0.0-0.5FT)	S	1/27/20	0950		X					1							
21548	-2 (3.0-4.0FT)			0955														
21549	-3 (7.0-8.0FT)			1000														
21550	-4 (10.0-12.0FT)			1005														
21551	-5 (14.0-15.0FT)			1010		X												
21552	B-256-1 (0.0-0.5FT)			1015	X													
21553	-2 (3.0-4.0FT)			1020														
21554	-3 (7.0-8.0FT)			1025														
21555	-4 (10.0-12.0FT)			1030														
21556	-5 (14.0-15.0FT)			1035	X						1							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/27/20	1530
[signature]	[signature]	1/27/20	1608

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
Reference PO# 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

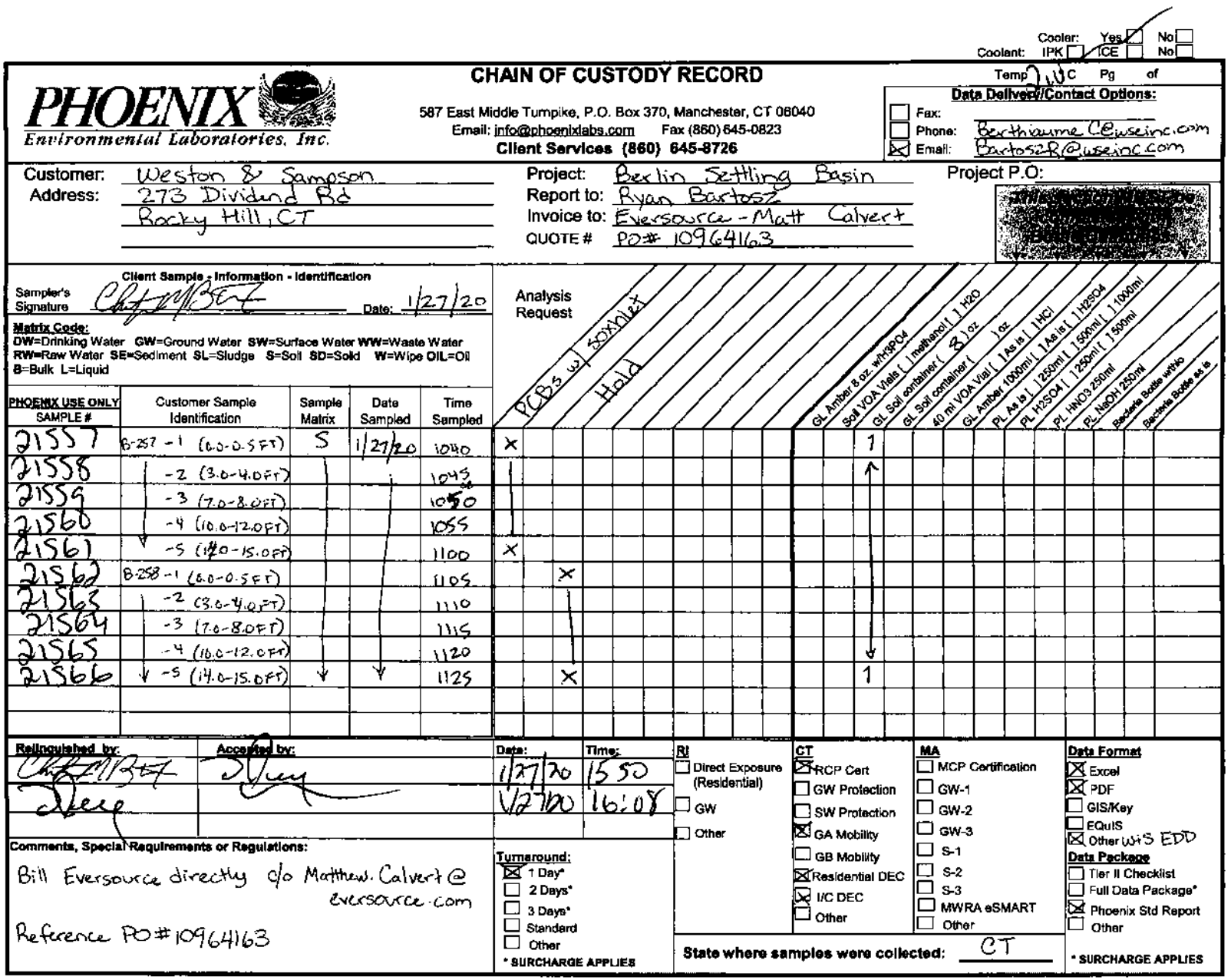
CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☒ Residential DEC
☒ I/C DEC
☐ Other

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

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WHS EDD

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

State where samples were collected: CT



CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp 2.1 °C Pg of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: Berthiaume_C@wseinc.com
☒ Email: Bartosz_R@wseinc.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO# 10964163

Project P.O:

Sampler's Signature: [signature] Date: 1/27/20

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

PHOENIX USE ONLY SAMPLE #	Client Sample - Information - Identification: Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: PCBs w/ soxhlet	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
21557	B-257 -1 (6.0-0.5FT)	S	1/27/20	1040	X				1									
21558	-2 (3.0-4.0FT)			1045					↑									
21559	-3 (7.0-8.0FT)			1050														
21560	-4 (10.0-12.0FT)			1055														
21561	-5 (14.0-15.0FT)			1100	X													
21562	B-258 -1 (6.0-0.5FT)			1105		X												
21563	-2 (3.0-4.0FT)			1110														
21564	-3 (7.0-8.0FT)			1115														
21565	-4 (10.0-12.0FT)			1120														
21566	-5 (14.0-15.0FT)	↓	↓	1125		X			↓									
									1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/27/20	1550
[signature]		1/27/20	16:08

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
Reference PO# 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WHS EDD

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

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☑ No ☐
Temp 2.1°C Pg of

CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
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Data Delivery/Contact Options:
☐ Fax:
☐ Phone: Berthiaume CE@wseinc.com
☒ Email: BartoszR@wseinc.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO# 10964163

Project P.O: [redacted]

Sampler's Signature: [signature] Date: 1/27/20

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: PCBs w/ Soxhlet	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz.	GL Soil container ( ) oz.	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
21567	B-259 -1 (0.0-0.5FT)	S	1/27/20	1130	X				1									
21568	-2 (3.0-4.0FT)			1135					↑									
21569	-3 (7.0-8.0FT)			1140														
21570	-4 (10.0-12.0FT)			1145														
21571	-5 (14.0-15.0FT)			1150														
21572	B-260-1 (0.0-0.5FT)			1155	X	CB												
21573	-2 (3.0-4.0FT)			1200		CB												
21574	-3 (7.0-8.0FT)			1205		CB												
21575	-4 (10.0-12.0FT)			1210		CB												
21576	-5 (14.0-15.0FT)	↓	↓	1215	X	CB			1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/27/20	1530
[signature]	[signature]	1/27/20	16/08

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
Reference PO# 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

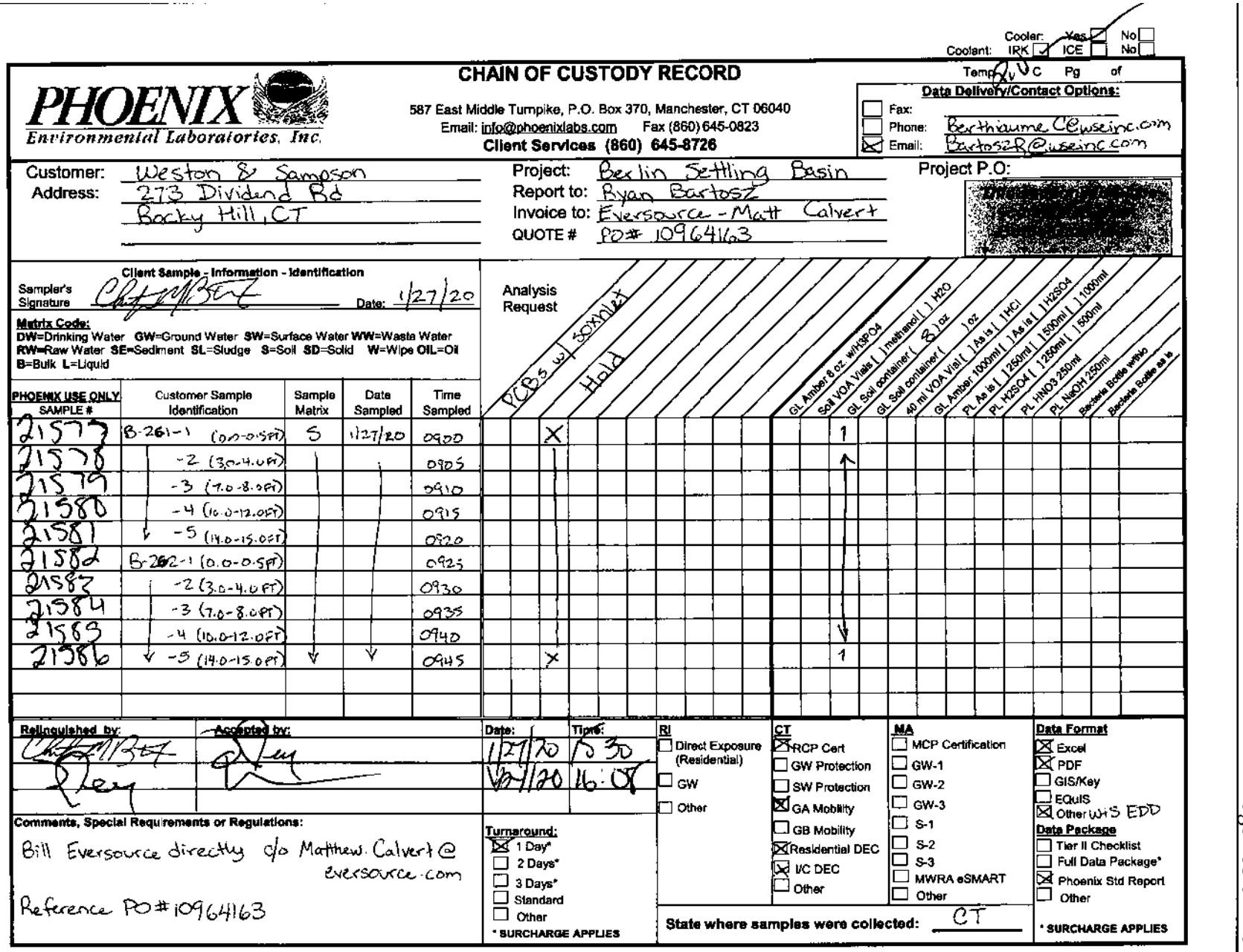
CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☒ Residential DEC
☒ I/C DEC
☐ Other

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

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WTS EDD

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



CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Cooler: Yes ☑ No ☐
Coolant: IRK ☑ ICE ☐ No ☐
Temp 2.1 °C Pg of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: berthiaume.c@wseinc.com
☒ Email: bartoszr@wseinc.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO# 10964163

Project P.O: [redacted]

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/27/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCB's w/ soxhlet	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
21577	B-261-1 (0.0-0.5ft)	S	1/27/20	0900	X				1									
21578	-2 (3.0-4.0ft)			0905					↑									
21579	-3 (7.0-8.0ft)			0910														
21580	-4 (10.0-12.0ft)			0915														
21581	-5 (14.0-15.0ft)			0920														
21582	B-262-1 (0.0-0.5ft)			0925														
21583	-2 (3.0-4.0ft)			0930														
21584	-3 (7.0-8.0ft)			0935														
21585	-4 (10.0-12.0ft)			0940														
21586	-5 (14.0-15.0ft)	↓	↓	0945	X				↓ 1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/27/20	15:30
[signature]		1/27/20	16:08

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
Reference PO# 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WHS EDD

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

State where samples were collected: CT

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 783 of 2201

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp 2.1°C Pg of

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

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: Berthiaume.C@wseinc.com
☒ Email: BartoszR@wseinc.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO# 10964163

Project P.O: [redacted]

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/27/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs w/ soxhlet	Hold	Gl. Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/tabs	Bacteria Bottle as is
21587	B-263-1 (0.0-0.5FT)	S	1/27/20	1220	X				1									
21588	-2 (3.0-4.0FT)			1225					↑									
21589	-3 (7.0-8.0FT)			1230														
21590	-4 (10.0-12.0FT)			1235														
21591	-5 (14.0-15.0FT)			1240	X													
21592	B-264-1 (0.0-0.5FT)			1245	X													
21593	-2 (3.0-4.0FT)			1250														
21594	-3 (7.0-8.0FT)			1255														
21595	-4 (10.0-12.0FT)			1300														
21596	-5 (14.0-15.0FT)	↓	↓	1305	X				↓									
									1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/27/20	1530
[signature]	[signature]	1/27/20	16:07

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
Reference PO# 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WHS EDD

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

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp 2.1°C Pg of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: Berthiaume_C@wseinc.com
☒ Email: BartoszR@wseinc.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO# 10964163

Project P.O: [redacted]

Sampler's Signature: [signature] Date: 1/27/20

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

PHOENIX USE ONLY SAMPLE #	Client Sample - Information - Identification: Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: PCBs w/ soxhlet	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 50ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
21597	B-25-1 (6.0-6.5FT)	S	1/27/20	1330	X			1										
21598	-2 (3.0-4.0FT)			1315				↑										
21599	-3 (7.0-8.0FT)			1320														
21600	-4 (10.0-12.0FT)			1325														
21601	-5 (14.0-15.0FT)			1335	X													
21602	B-26-1 (6.0-6.5FT)			1340	X													
21603	-2 (3.0-4.0FT)			1345														
21604	-3 (7.0-8.0FT)			1350														
21605	-4 (10.0-12.0FT)			1355				↓										
21606	-5 (14.0-15.0FT)	↓	↓	1400	X			1										

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/27/20	1630
[signature]		1/27/20	16:08

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com
Reference PO# 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WHS EDD

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

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ TCE ☐ No ☐
Temp 2.1 °C Pg of

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

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: Berthiaume_C@wseinc.com
☒ Email: BartoszR@wseinc.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz
Invoice to: Eversource - Matt Calvert
QUOTE # PO# 10964163

Project P.O: [redacted]

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/27/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs w/ soxhlet	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/hyo	Bacteria Bottle as is
21607	B-251-2 (3.0-4.0Ft)	S	1/27/20	1405	X				1									
21608	Dup-0127-1	↓	↓	—	X				↑									
21609	Dup-0127-2			—	X				↓									
21610	Dup-0127-3			—		X			1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/27/20	1530
[signature]	[signature]	1/27/20	16:10

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com

Reference PO# 10964163

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WHS EDD

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

State where samples were collected: CT

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 786 of 2201

Sarah Bell

From: Sarah Bell
Sent: Tuesday, January 28, 2020 10:20 AM
To: Shannon Wilhelm
Cc: Sarah Bell
Subject: FW: BSB - Sample Activation Request

From: Berthiaume, Christopher [mailto:BerthiaumeC@wseinc.com]
Sent: Tuesday, January 28, 2020 9:50 AM
To: Sarah Bell
Cc: Bartosz, Ryan
Subject: BSB - Sample Activation Request

Sarah,

Could you please activate the following samples for PCB analysis by Soxhlet on the quickest possible TAT?

CF18531	B-254-1 (0-0.5')
CF18532	B-254-2 (3-4')
CF18533	B-254-3 (7-8')
CF18534	B-254-4 (10-12')
CF18535	B-254-5 (14-15')
CF21562	B-258-1 (0-0.5')
CF21563	B-258-2 (3-4')
CF21564	B-258-3 (7-8')
CF21565	B-258-4 (10-12')
CF21566	B-258-5 (14-15')

Unfortunately I do not know the lab ID's for the last 5 samples as they were submitted only last night (on hold) and I haven't yet received a work order. The details regarding reporting limits, billing instructions, etc., will apply from the respective COCs that these samples were submitted under.

I have a second request as well. Could you please give me access to all of the Berlin Settling Basin work orders from last week? I only have access to about half of the work orders through the online portal.

Thank you,
Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

Facebook | Twitter | LinkedIn

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Bobbi Aloisa

From: Berthiaume, Christopher <BerthiaumeC@wseinc.com>
Sent: Wednesday, January 29, 2020 2:15 PM
To: Bobbi Aloisa
Cc: Bartosz, Ryan
Subject: BSB - Sample Activation Request

Bobbi,

Please activate the following samples for PCBs analysis by Soxhlet:

B-255-1 (0.0-0.5 ft)	CF21547
B-255-2 (3.0-4.0 ft)	CF21548
B-255-3 (7.0-8.0 ft)	CF21549
B-255-4 (10.0-12.0 ft)	CF21550
B-255-5 (14.0-15.0 ft)	CF21551
B-259-1 (0.0-0.5 ft)	CF21567
B-259-2 (3.0-4.0 ft)	CF21568
B-259-3 (7.0-8.0 ft)	CF21569
B-259-4 (10.0-12.0 ft)	CF21570
B-259-5 (14.0-15.0 ft)	CF21571

All samples are from SDG# GCF21547. We are requesting the fastest possible TAT and the conditions from the original COCs (like billing info and reporting limit requirements) will apply.

Please also see if I can be added as a contact for the report on this SDG# and any other SDG# for this project (Berlin Settling Basin) in the past month. It will help expedite W&S's work if both myself and Ryan are receiving these reports and if I can access them online.

Thank you,
Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

Facebook | Twitter | LinkedIn

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	7:30
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27244

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	430	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	92		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	02/06/20	SC	30 - 150 %
% TCMX	83		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	95		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-1 (0.0-0.5 FT)
Phoenix I.D.: CF27244

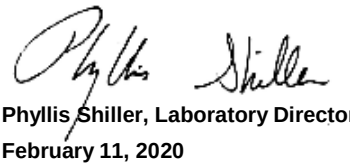
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	7:32
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27245

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	112		%	10	02/06/20	SC	30 - 150 %
% TCMX	94		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	108		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-2 (3.0-4.0 FT)
Phoenix I.D.: CF27245

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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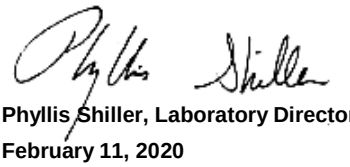

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	7:34
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27246

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	530	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	73		%	10	02/06/20	SC	30 - 150 %
% TCMX	89		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	104		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-3 (7.0-8.0 FT)
Phoenix I.D.: CF27246

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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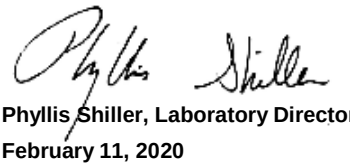

Phyllis Shiller, Laboratory Director
February 11, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	7:36
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27247

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	78		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	64		%	10	02/06/20	SC	30 - 150 %
% TCMX	82		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-4 (10.0-12.0 FT)
Phoenix I.D.: CF27247

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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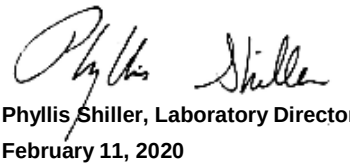

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	7:38
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27248

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	92		%	10	02/06/20	SC	30 - 150 %
% TCMX	84		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-236-5 (14.0-15.0 FT)
Phoenix I.D.: CF27248

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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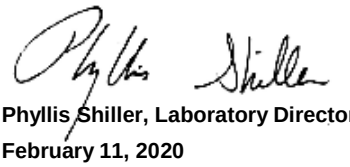

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	8:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27254

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	71		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	71		%	10	02/11/20	SC	30 - 150 %
% TCMX	70		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	68		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-1 (0.0-0.5 FT)
Phoenix I.D.: CF27254

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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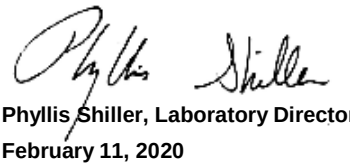

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	8:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27255

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	02/11/20	SC	30 - 150 %
% TCMX	74		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	78		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-2 (3.0-4.0 FT)
Phoenix I.D.: CF27255

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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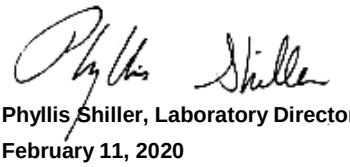

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	8:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27256

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	95		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	89		%	10	02/11/20	SC	30 - 150 %
% TCMX	72		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-3 (7.0-8.0 FT)
Phoenix I.D.: CF27256

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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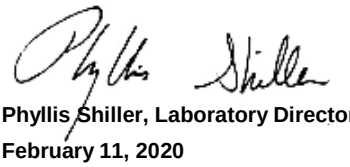

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	8:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27257

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	82		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	02/11/20	SC	30 - 150 %
% TCMX	78		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	83		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-4 (10.0-12.0 FT)
Phoenix I.D.: CF27257

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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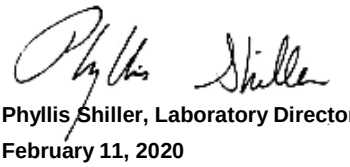

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	8:18
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27258

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	98		%	10	02/11/20	SC	30 - 150 %
% TCMX	75		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	74		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-267-5 (14.0-15.0 FT)
Phoenix I.D.: CF27258

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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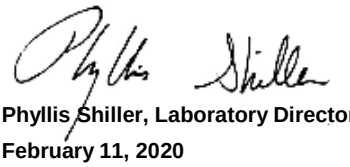

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27269

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	69		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	63		%	10	02/06/20	SC	30 - 150 %
% TCMX	60		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	62		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-1 (0.0-0.5 FT)
Phoenix I.D.: CF27269

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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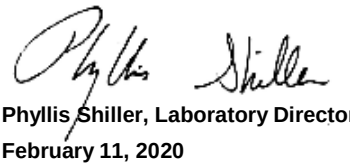

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27270

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	99		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	91		%	10	02/06/20	SC	30 - 150 %
% TCMX	91		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-2 (3.0-4.0 FT)
Phoenix I.D.: CF27270

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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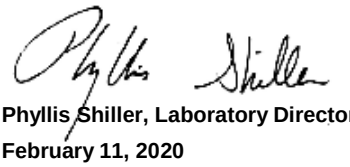

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27271

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	86		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	71		%	10	02/06/20	SC	30 - 150 %
% TCMX	69		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-3 (7.0-8.0 FT)
Phoenix I.D.: CF27271

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Comments:

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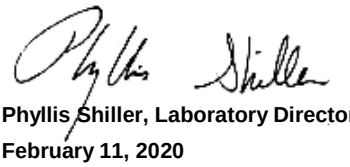

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27272

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	95		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	88		%	10	02/06/20	SC	30 - 150 %
% TCMX	90		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-4 (10.0-12.0 FT)
Phoenix I.D.: CF27272

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Comments:

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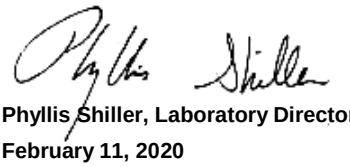

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:18
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27273

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	118		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	115		%	10	02/06/20	SC	30 - 150 %
% TCMX	100		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	106		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-270-5 (14.0-15.0 FT)
Phoenix I.D.: CF27273

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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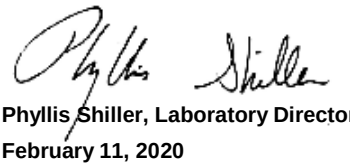

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27274

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	86		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	91		%	10	02/06/20	SC	30 - 150 %
% TCMX	94		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-1 (0.0-0.5 FT)
Phoenix I.D.: CF27274

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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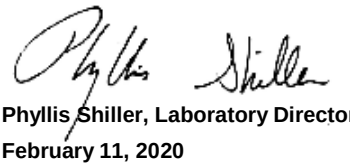

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:42
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27275

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1221	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1232	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1242	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1248	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1254	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1260	36000	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1262	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
PCB-1268	ND	3900	ug/Kg	100	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	100	02/06/20	SC	30 - 150 %
% TCMX	Diluted Out		%	100	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	100	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-2 (3.0-4.0 FT)
Phoenix I.D.: CF27275

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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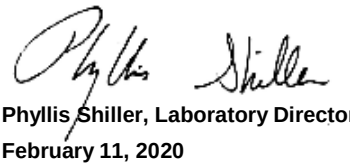

Phyllis Shiller, Laboratory Director
February 11, 2020
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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:44
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27276

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	88		%	10	02/06/20	SC	30 - 150 %
% TCMX	81		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-3 (7.0-8.0 FT)
Phoenix I.D.: CF27276

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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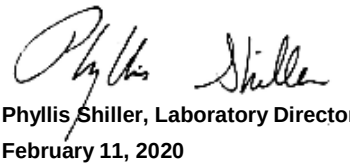

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:46
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27277

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	112		%	10	02/06/20	SC	30 - 150 %
% TCMX	119		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	115		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-4 (10.0-12.0 FT)
Phoenix I.D.: CF27277

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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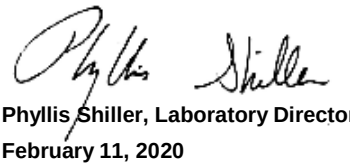

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	9:48
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27278

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	112		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	112		%	10	02/06/20	SC	30 - 150 %
% TCMX	98		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-271-5 (14.0-15.0 FT)
Phoenix I.D.: CF27278

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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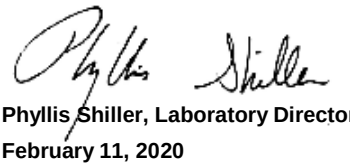

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:00
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27279

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	82		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	02/11/20	SC	30 - 150 %
% TCMX	79		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-1 (0.0-0.5 FT)
Phoenix I.D.: CF27279

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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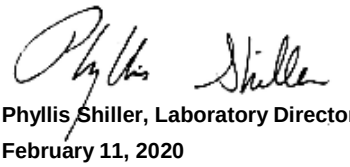

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:02
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27280

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	78		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	02/11/20	SC	30 - 150 %
% TCMX	60		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	57		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-2 (3.0-4.0 FT)
Phoenix I.D.: CF27280

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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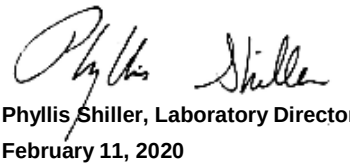

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:04
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27281

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	112		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	107		%	10	02/11/20	SC	30 - 150 %
% TCMX	95		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-3 (7.0-8.0 FT)
Phoenix I.D.: CF27281

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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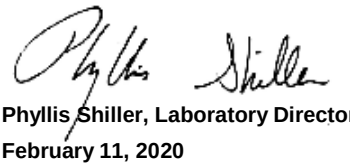

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273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:06
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27282

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	02/11/20	SC	30 - 150 %
% TCMX	93		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-4 (10.0-12.0 FT)
Phoenix I.D.: CF27282

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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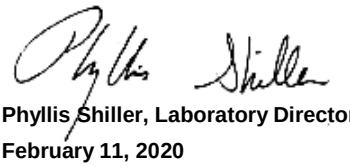

Phyllis Shiller, Laboratory Director
February 11, 2020
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:08
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27283

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	84		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	02/11/20	SC	30 - 150 %
% TCMX	67		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	62		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-272-5 (14.0-15.0 FT)
Phoenix I.D.: CF27283

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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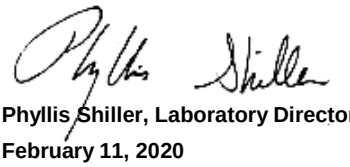

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February 11, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27289

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	115		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	129		%	10	02/06/20	SC	30 - 150 %
% TCMX	104		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	96		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-1 (0.0-0.5 FT)
Phoenix I.D.: CF27289

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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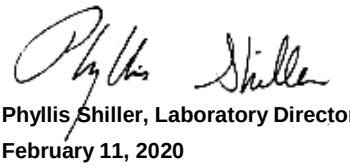

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:42
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27290

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	114		%	10	02/06/20	SC	30 - 150 %
% TCMX	115		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	122		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-2 (3.0-4.0 FT)
Phoenix I.D.: CF27290

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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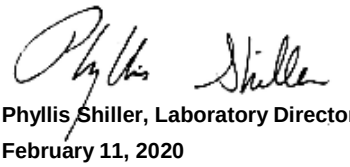

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:44
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27291

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	02/06/20	SC	30 - 150 %
% TCMX	74		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-3 (7.0-8.0 FT)
Phoenix I.D.: CF27291

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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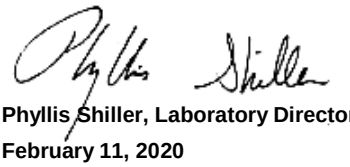

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:46
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27292

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	700	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	109		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	121		%	10	02/06/20	SC	30 - 150 %
% TCMX	120		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	121		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-4 (10.0-12.0 FT)
Phoenix I.D.: CF27292

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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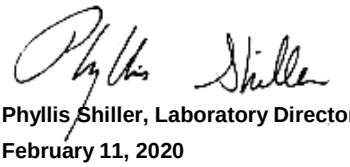

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	10:48
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27293

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	82		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	76		%	10	02/06/20	SC	30 - 150 %
% TCMX	75		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-274-5 (14.0-15.0 FT)
Phoenix I.D.: CF27293

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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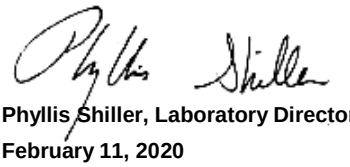

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27294

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	111		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	115		%	10	02/06/20	SC	30 - 150 %
% TCMX	96		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	113		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-1 (0.0-0.5 FT)
Phoenix I.D.: CF27294

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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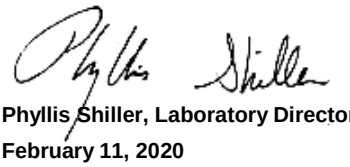

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27295

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	143		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	139		%	10	02/06/20	SC	30 - 150 %
% TCMX	108		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	116		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-2 (3.0-4.0 FT)
Phoenix I.D.: CF27295

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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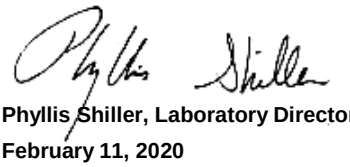

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27296

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	BH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	112		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	118		%	10	02/06/20	SC	30 - 150 %
% TCMX	98		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	115		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-3 (7.0-8.0 FT)
Phoenix I.D.: CF27296

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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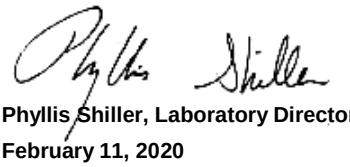

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27297

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/06/20	HH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	93		%	10	02/07/20	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	02/07/20	SC	30 - 150 %
% TCMX	89		%	10	02/07/20	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	02/07/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-4 (10.0-12.0 FT)
Phoenix I.D.: CF27297

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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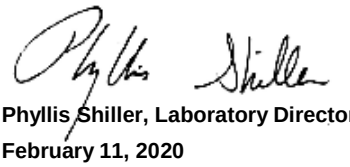

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:18
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27298

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	112		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	115		%	10	02/06/20	SC	30 - 150 %
% TCMX	95		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-275-5 (14.0-15.0 FT)
Phoenix I.D.: CF27298

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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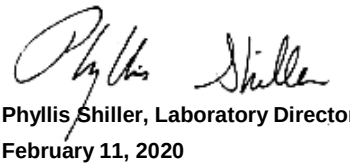

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:40
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27299

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	124		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	122		%	10	02/06/20	SC	30 - 150 %
% TCMX	96		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	103		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-1 (0.0-0.5 FT)
Phoenix I.D.: CF27299

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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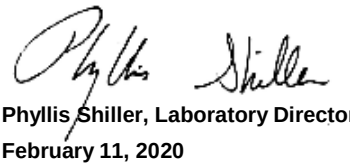

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:42
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27300

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	1600	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	52		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	59		%	10	02/06/20	SC	30 - 150 %
% TCMX	54		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	53		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-2 (3.0-4.0 FT)
Phoenix I.D.: CF27300

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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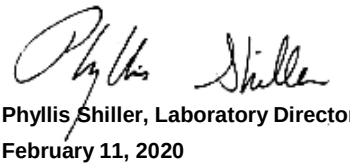

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:46
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27301

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	109		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	105		%	10	02/06/20	SC	30 - 150 %
% TCMX	79		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	75		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-3 (7.0-8.0 FT)
Phoenix I.D.: CF27301

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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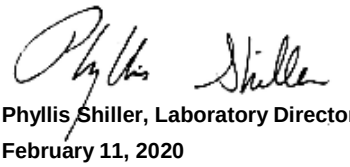

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:48
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27302

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	63		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	02/06/20	SC	30 - 150 %
% TCMX	74		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-4 (10.0-12.0 FT)
Phoenix I.D.: CF27302

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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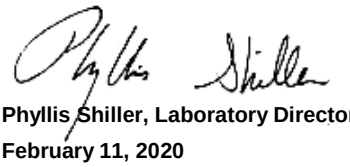

Phyllis Shiller, Laboratory Director
February 11, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	11:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27303

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	73		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	81		%	10	02/06/20	SC	30 - 150 %
% TCMX	68		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	67		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-276-5 (14.0-15.0 FT)
Phoenix I.D.: CF27303

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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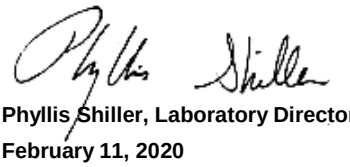

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:10
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27304

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	77		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	84		%	10	02/06/20	SC	30 - 150 %
% TCMX	61		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	69		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-1 (0.0-0.5 FT)
Phoenix I.D.: CF27304

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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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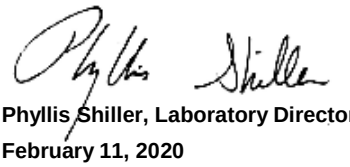

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:12
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27305

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	1300	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	78		%	10	02/06/20	SC	30 - 150 %
% TCMX	74		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	66		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-2 (3.0-4.0 FT)
Phoenix I.D.: CF27305

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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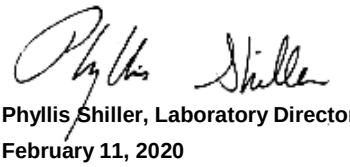

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:14
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27306

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	120		%	10	02/06/20	SC	30 - 150 %
% TCMX	95		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	95		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-3 (7.0-8.0 FT)
Phoenix I.D.: CF27306

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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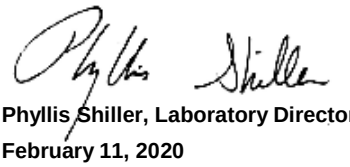

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:16
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27307

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/06/20	HH/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	02/07/20	SC	30 - 150 %
% DCBP (Confirmation)	84		%	10	02/07/20	SC	30 - 150 %
% TCMX	88		%	10	02/07/20	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	02/07/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-4 (10.0-12.0 FT)
Phoenix I.D.: CF27307

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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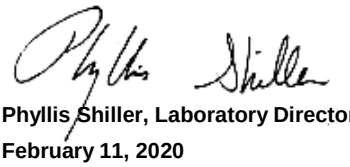

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:18
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27308

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	74		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	81		%	10	02/06/20	SC	30 - 150 %
% TCMX	64		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	68		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-277-5 (14.0-15.0 FT)
Phoenix I.D.: CF27308

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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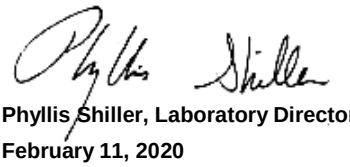

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:30
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27309

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	114		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	133		%	10	02/06/20	SC	30 - 150 %
% TCMX	91		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	118		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-1 (0.0-0.5 FT)
Phoenix I.D.: CF27309

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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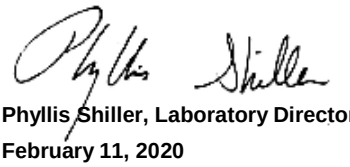

Phyllis Shiller, Laboratory Director
February 11, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:32
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27310

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	103		%	10	02/06/20	SC	30 - 150 %
% TCMX	58		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-2 (3.0-4.0 FT)
Phoenix I.D.: CF27310

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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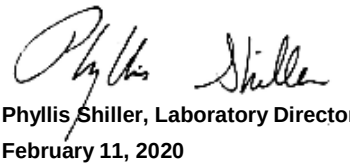

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February 11, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:34
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27311

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	84		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	73		%	10	02/06/20	SC	30 - 150 %
% TCMX	72		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-3 (7.0-8.0 FT)
Phoenix I.D.: CF27311

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:36
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27312

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	91		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	02/06/20	SC	30 - 150 %
% TCMX	85		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	78		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-4 (10.0-12.0 FT)
Phoenix I.D.: CF27312

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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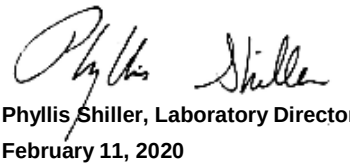

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:38
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27313

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	120		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	128		%	10	02/06/20	SC	30 - 150 %
% TCMX	105		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	109		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-278-5 (14.0-15.0 FT)
Phoenix I.D.: CF27313

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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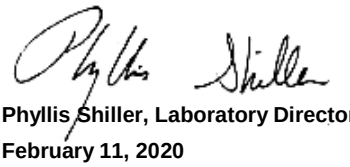

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27314

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	93		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	02/11/20	SC	30 - 150 %
% TCMX	87		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-1 (0.0-0.5 FT)
Phoenix I.D.: CF27314

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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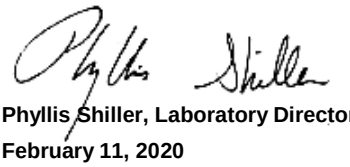

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:52
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27315

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	58		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	59		%	10	02/11/20	SC	30 - 150 %
% TCMX	57		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	56		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-2 (3.0-4.0 FT)
Phoenix I.D.: CF27315

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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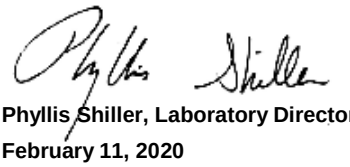

Phyllis Shiller, Laboratory Director
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:54
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27316

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	78		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	02/11/20	SC	30 - 150 %
% TCMX	49		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	50		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-3 (7.0-8.0 FT)
Phoenix I.D.: CF27316

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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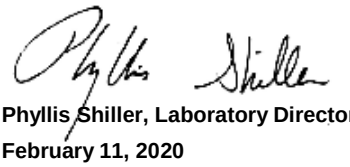

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:56
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27317

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	68		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	65		%	10	02/11/20	SC	30 - 150 %
% TCMX	69		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	68		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-4 (10.0-12.0 FT)
Phoenix I.D.: CF27317

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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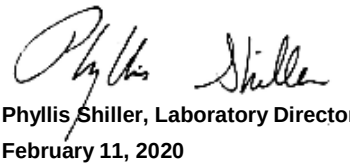

Phyllis Shiller, Laboratory Director
February 11, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	12:58
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27318

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	02/11/20	SC	30 - 150 %
% TCMX	66		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	65		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-279-5 (14.0-15.0 FT)
Phoenix I.D.: CF27318

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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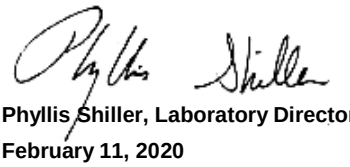

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	13:50
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27329

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	460	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	84		%	10	02/11/20	SC	30 - 150 %
% TCMX	76		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-1 (0.0-0.5 FT)
Phoenix I.D.: CF27329

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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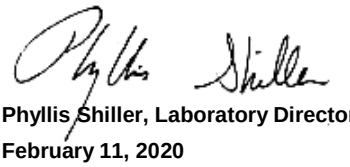

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	13:52
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27330

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	100		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	02/11/20	SC	30 - 150 %
% TCMX	77		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-2 (3.0-4.0 FT)
Phoenix I.D.: CF27330

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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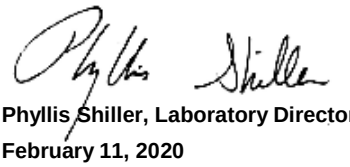

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	13:54
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27331

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	64		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	62		%	10	02/11/20	SC	30 - 150 %
% TCMX	46		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	45		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-3 (7.0-8.0 FT)
Phoenix I.D.: CF27331

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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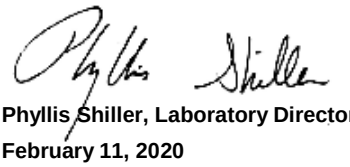

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	13:56
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27332

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	HH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	60		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	59		%	10	02/11/20	SC	30 - 150 %
% TCMX	68		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	67		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-4 (10.0-12.0 FT)
Phoenix I.D.: CF27332

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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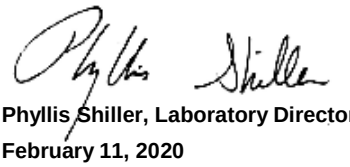

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	13:58
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27333

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	BH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	02/11/20	SC	30 - 150 %
% TCMX	67		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-282-5 (14.0-15.0 FT)
Phoenix I.D.: CF27333

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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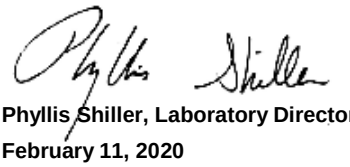

Phyllis Shiller, Laboratory Director
February 11, 2020
Official Report Release To Follow

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

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27334

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-1 (0.0-0.5 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	BH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	91		%	10	02/11/20	SC	30 - 150 %
% TCMX	103		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	102		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-1 (0.0-0.5 FT)
Phoenix I.D.: CF27334

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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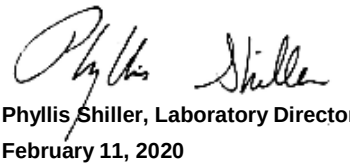

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February 11, 2020
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27335

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-2 (3.0-4.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	BH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	02/11/20	SC	30 - 150 %
% TCMX	79		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-2 (3.0-4.0 FT)
Phoenix I.D.: CF27335

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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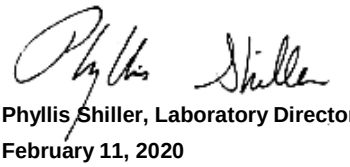

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27336

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-3 (7.0-8.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	BH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	59		%	10	02/11/20	SC	30 - 150 %
% TCMX	60		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	60		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-3 (7.0-8.0 FT)
Phoenix I.D.: CF27336

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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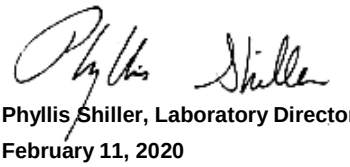

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27337

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-4 (10.0-12.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	BH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	119		%	10	02/11/20	SC	30 - 150 %
% TCMX	96		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	113		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-4 (10.0-12.0 FT)
Phoenix I.D.: CF27337

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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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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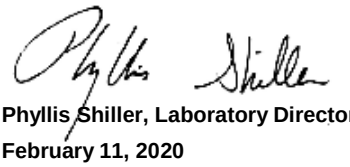

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27338

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-5 (14.0-15.0 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		02/10/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/10/20	BH/VT/SB	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/11/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	02/11/20	SC	30 - 150 %
% DCBP (Confirmation)	98		%	10	02/11/20	SC	30 - 150 %
% TCMX	77		%	10	02/11/20	SC	30 - 150 %
% TCMX (Confirmation)	75		%	10	02/11/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: B-283-5 (14.0-15.0 FT)
Phoenix I.D.: CF27338

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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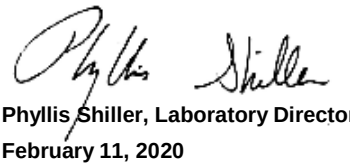

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27344

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0205-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	100		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	02/06/20	SC	30 - 150 %
% TCMX	102		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	110		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0205-1

Phoenix I.D.: CF27344

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

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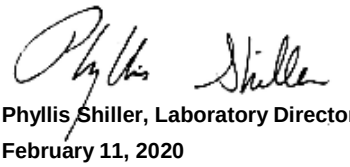

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Analysis Report

February 11, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
273 Dividend Rd
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CB	02/05/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	CP	02/05/20	17:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCF27244
Phoenix ID: CF27345

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0205-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		02/05/20	VT	SW846-%Solid
Extraction for PCB	Completed				02/05/20	ZH/KL/VT	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	02/06/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	78		%	10	02/06/20	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	02/06/20	SC	30 - 150 %
% TCMX	76		%	10	02/06/20	SC	30 - 150 %
% TCMX (Confirmation)	75		%	10	02/06/20	SC	30 - 150 %

Project ID: BERLIN SETTLING BASIN
Client ID: DUP-0205-2
Phoenix I.D.: CF27345

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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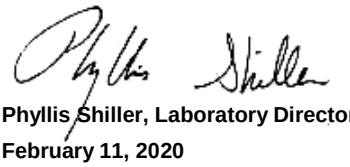
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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
February 11, 2020
Official Report Release To Follow

Tuesday, February 11, 2020

Sample Criteria Exceedances Report

GCF27244 - WESTSAM-EVERBERLIN

Criteria: CT: RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF27275	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	36000	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1016	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1221	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1232	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1242	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1254	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	36000	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1262	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1268	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27275	$PCB_SOXR	PCB-1248	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	ND	3900	1000	1000	ug/Kg
CF27300	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	1600	370	1000	1000	ug/Kg
CF27300	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1600	370	1000	1000	ug/Kg
CF27305	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	1300	370	1000	1000	ug/Kg
CF27305	$PCB_SOXR	PCB-1260	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1300	370	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.

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐
Temp 1.2°C Pg 1 of 11

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

Data Delivery/Contact Options:
☐ Fax: BartoszR@wseinc.com
☐ Phone: BerthiaumeC@wseinc.com
☒ Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2/5/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials ( ) methanol ( ) H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial ( ) As is ( ) HCl	GL Amber 1000ml ( ) As is ( ) H2SO4	PL As is ( ) 250ml ( ) 500ml ( ) 1000ml	PL H2SO4 ( ) 250ml ( ) 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
27244	B-236-1 (0.0-0.5 FT)	S	2/5/20	0730	X			1										
27245	B-236-2 (3.0-4.0 FT)	S		0732														
27246	B-236-3 (7.0-8.0 FT)	S		0734														
27247	B-236-4 (10.0-12.0 FT)	S		0736														
27248	B-236-5 (14.0-15.0 FT)	S		0738	X									2	7	2	4	8
27249	B-237-1 (0.0-0.5 FT)	S		0750		X								2	7	2	4	9
27248	B-237-2 (3.0-4.0 FT)	S		0752										2	7	2	5	0
27249	B-237-3 (7.0-8.0 FT)	S		0754										2	7	2	5	1
27250	B-237-4 (10.0-12.0 FT)	S		0756										2	7	2	5	2
27251	B-237-5 (14.0-15.0 FT)	S		0758		X		1						2	7	2	5	3

Relinquished by: [signature] Date: 2/5/20 Time: 1600

Accepted by: [signature] Date: 2/5/20 Time: 1714

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

Hold ~~the~~ samples until W+S asks for disposal.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
■ Other: W+S EDD

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

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

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Client Services (860) 645-8726

Temp 2.1°C Pg 2 of 4

Data Delivery/Contact Options:
☐ Fax: BartoszR@wseinc.com
☐ Phone: BerthiaumeC@wseinc.com
■ Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2/5/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container [ ] oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
27254	B-267-1 (0.0-0.5 FT)	S	2/5/20	0810		X		1										
27255	B-267-2 (3.0-4.0 FT)	S	↑	0812		↑		↑										
27256	B-267-3 (7.0-8.0 FT)	S		0814														
27257	B-267-4 (10.0-12.0 FT)	S		0816														
27258	B-267-5 (14.0-15.0 FT)	S		0818														
27259	B-268-1 (0.0-0.5 FT)	S		0830														
27260	B-268-2 (3.0-4.0 FT)	S		0832														
27261	B-268-3 (7.0-8.0 FT)	S		0834														
27262	B-268-4 (10.0-12.0 FT)	S		0836														
27263	B-268-5 (14.0-15.0 FT)	S	2/5/20	0838		X		1										

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/5/20	1624
[signature]	[signature]	2.5.20	1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
■ Other: W+S EDD

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

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 2 °C Pg 3 of 11

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

Data Delivery/Contact Options:
☐ Fax: BartoszR@wseinc.com
☐ Phone: BerthiaumeC@wseinc.com
■ Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 2/5/20

Client Sample - Information - Identification

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
272164	B-269-1 (0.0-0.5 FT)	S	2/5/20	0850		X	1											
272165	B-269-2 (3.0-4.0 FT)	S	↑	0852		↑	↑											
272166	B-269-3 (7.0-8.0 FT)	S		0854		↓												
272167	B-269-4 (10.0-12.0 FT)	S		0856		↓												
272168	B-269-5 (14.0-15.0 FT)	S		0858		X												
272169	B-270-1 (0.0-0.5 FT)	S		0910	X													
272170	B-270-2 (3.0-4.0 FT)	S		0912	↑													
272171	B-270-3 (7.0-8.0 FT)	S		0914														
272172	B-270-4 (10.0-12.0 FT)	S	↓	0916	↓		↓											
272173	B-270-5 (14.0-15.0 FT)	S	2/5/20	0918	X		1											

Relinquished by: [signature] **Accepted by:** [signature] **Date:** 2/5/20 **Time:** 1600

[signature] [signature] 2/5/20 1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
■ Other: W+S EDD

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

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

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Temp 2.2°C Pg 1 of 1

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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Client Services (860) 645-8726

Data Delivery/Contact Options:
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[ ] Phone: BerthiaumeC@wseinc.com
[■] Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2/5/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/hypo	Bacteria Bottle as is
27274	B-271-1 (0.0-0.5 FT)	S	2/5/20	0940	X						1							
27275	B-271-2 (3.0-4.0 FT)	S		0942														
27276	B-271-3 (7.0-8.0 FT)	S		0944														
27277	B-271-4 (10.0-12.0 FT)	S		0946														
27278	B-271-5 (14.0-15.0 FT)	S		0948	X													
27279	B-272-1 (0.0-0.5 FT)	S		1000		X												
27280	B-272-2 (3.0-4.0 FT)	S		1002														
27281	B-272-3 (7.0-8.0 FT)	S		1004														
27282	B-272-4 (10.0-12.0 FT)	S		1006														
27283	B-272-5 (14.0-15.0 FT)	S	2/5/20	1008		X					1							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/5/20	1621
[signature]	[signature]	2.5.20	1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

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

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

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

State where samples were collected: CT

Data Format
[■] Excel
[■] PDF
[ ] GIS/Key
[ ] EQuIS
[■] Other: W+S EDD

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

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 928 of 2201

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

Temp 2.0 2.2 Pg 5 of 11

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CHAIN OF CUSTODY RECORD

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QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 2/5/20

Client Sample - Information - Identification

Matrix Code:
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PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container [8] oz	GL Soil container [ ] oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
27284	B-273-1 (0.0-0.5 FT)	S	2/5/20	1020		X	1											
27285	B-273-2 (3.0-4.0 FT)	S		1022														
27286	B-273-3 (7.0-8.0 FT)	S		1024														
27287	B-273-4 (10.0-12.0 FT)	S		1026														
27288	B-273-5 (14.0-15.0 FT)	S		1028		X												
27289	B-274-1 (0.0-0.5 FT)	S		1040	X													
27290	B-274-2 (3.0-4.0 FT)	S		1042														
27291	B-274-3 (7.0-8.0 FT)	S		1044														
27292	B-274-4 (10.0-12.0 FT)	S		1046														
27293	B-274-5 (14.0-15.0 FT)	S	2/5/20	1048	X		1											

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/5/20	1626
[signature]	[signature]	2/5/20	1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

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☐ GIS/Key
☐ EQuIS
☒ Other: W+S EDD

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

* SURCHARGE APPLIES

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 2.8 Pg 6 of 11

PHOENIX
Environmental Laboratories, Inc.

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RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
27294	B-275-1 (0.0-0.5 FT)	S	2/5/20	1110	X					1								
27295	B-275-2 (3.0-4.0 FT)	S		1112	1					1								
27296	B-275-3 (7.0-8.0 FT)	S		1114														
27297	B-275-4 (10.0-12.0 FT)	S		1116														
27298	B-275-5 (14.0-15.0 FT)	S		1118														
27299	B-276-1 (0.0-0.5 FT)	S		1140														
27300	B-276-2 (3.0-4.0 FT)	S		1142														
27301	B-276-3 (7.0-8.0 FT)	S		1146														
27302	B-276-4 (10.0-12.0 FT)	S		1148	1					1								
27303	B-276-5 (14.0-15.0 FT)	S	2/5/20	1150	X					1								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/5/20	1625
[signature]	[signature]	2.5.20	1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
■ Other: W+S EDD

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

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 2.0 °C Pg 7 of 11

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

Data Delivery/Contact Options:
☐ Fax: BartoszR@wseinc.com
☐ Phone: BerthiaumeC@wseinc.com
■ Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2/5/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container [8] oz	GL Soil container [ ] oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
27304	B-277-1 (0.0-0.5 FT)	S	2/5/20	1210	X						1							
27305	B-277-2 (3.0-4.0 FT)	S		1212	↑						↑							
27306	B-277-3 (7.0-8.0 FT)	S		1214														
27307	B-277-4 (10.0-12.0 FT)	S		1216														
27308	B-277-5 (14.0-15.0 FT)	S		1218														
27309	B-278-1 (0.0-0.5 FT)	S		1230														
27310	B-278-2 (3.0-4.0 FT)	S		1232														
27311	B-278-3 (7.0-8.0 FT)	S		1234														
27312	B-278-4 (10.0-12.0 FT)	S		1236	↓						↓							
27313	B-278-5 (14.0-15.0 FT)	S	2/5/20	1238	X						1							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/5/20	1620
[signature]	[signature]	2.5.20	1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
■ Other: W+S EDD

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

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

CHAIN OF CUSTODY RECORD

Temp 2.1 & 2.3 Pg 8 of 11

PHOENIX
Environmental Laboratories, Inc.

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

Data Delivery/Contact Options:
☐ Fax: BartoszR@wseinc.com
☐ Phone: BerthiaumeC@wseinc.com
■ Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2/5/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
27314	B-279-1 (0.0-0.5 FT)	S	2/5/20	1250		8			1									
27315	B-279-2 (3.0-4.0 FT)	S	↑	1252		↑			↑									
27316	B-279-3 (7.0-8.0 FT)	S		1254														
27317	B-279-4 (10.0-12.0 FT)	S		1256														
27318	B-279-5 (14.0-15.0 FT)	S		1258														
27319	B-280-1 (0.0-0.5 FT)	S		1310														
27320	B-280-2 (3.0-4.0 FT)	S		1312														
27321	B-280-3 (7.0-8.0 FT)	S		1314														
27322	B-280-4 (10.0-12.0 FT)	S		1316														
27323	B-280-5 (14.0-15.0 FT)	S	2/5/20	1318		↓			↓									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/5/20	1625
[signature]	[signature]	2/5/20	1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
■ Other: W+S EDD

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

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

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Temp 2°C Pg 1 of 4

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

Data Delivery/Contact Options:
- [ ] Fax: BartoszR@wseinc.com
- [ ] Phone: BerthiaumeC@wseinc.com
- [ ] Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2/5/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
27324	B-281-1 (0.0-0.5 FT)	S	2/5/20	1330		X					1							
27325	B-281-2 (3.0-4.0 FT)	S	↑	1332		↑					↑							
27326	B-281-3 (7.0-8.0 FT)	S		1334														
27327	B-281-4 (10.0-12.0 FT)	S		1336														
27328	B-281-5 (14.0-15.0 FT)	S		1338														
27329	B-282-1 (0.0-0.5 FT)	S		1350														
27330	B-282-2 (3.0-4.0 FT)	S		1352														
27331	B-282-3 (7.0-8.0 FT)	S		1354														
27332	B-282-4 (10.0-12.0 FT)	S	↓	1356							↓							
27333	B-282-5 (14.0-15.0 FT)	S	2/5/20	1358		X					1							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/5/20	1716
[signature]	[signature]	2/5/20	1716

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

* SURCHARGE APPLIES

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

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

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

State where samples were collected: CT

Data Format
- [X] Excel
- [X] PDF
- [ ] GIS/Key
- [ ] EQuIS
- [X] Other: W+S EDD

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

* SURCHARGE APPLIES

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 2.6°C Pg 10 of 11

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

Data Delivery/Contact Options:
☐ Fax: BartoszR@wseinc.com
☐ Phone: BerthiaumeC@wseinc.com
■ Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO#10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2/5/20

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
27334	B-283-1 (0.0-0.5 FT)	S	2/5/20	
27335	B-283-2 (3.0-4.0 FT)	S		
27336	B-283-3 (7.0-8.0 FT)	S		
27337	B-283-4 (10.0-12.0 FT)	S		
27338	B-283-5 (14.0-15.0 FT)	S		
27339	B-284-1 (0.0-0.5 FT)	S		
27340	B-284-2 (3.0-4.0 FT)	S		
27341	B-284-3 (7.0-8.0 FT)	S		
27342	B-284-4 (10.0-12.0 FT)	S		
27343	B-284-5 (14.0-15.0 FT)	S	2/5/20	

Analysis Request

PCBs by Soxhlet Extraction (3540 / 8082)	Hold	GL Amber 8 oz w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/hio	Bacteria Bottle as is
X		1											
X		1											

Relinquished by: [signature] **Accepted by:** [signature]
Date: 2/5/20 2/5/20 **Time:** 16 17:16

Comments, Special Requirements or Regulations:

Bill Eversource directly c/o Matthew.Calvert@eversource.com.

Reference PO#10964163.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
■ Other: W+S EDD

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

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 2.6 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax: BartoszR@wseinc.com
☐ Phone: BerthiaumeC@wseinc.com
☒ Email: Matthew.Calvert@eversource.com

Customer: Weston & Sampson
Address: 273 Dividend Rd
Rocky Hill, CT

Project: Berlin Settling Basin
Report to: Ryan Bartosz / Chris Berthiaume / Matt Calvert
Invoice to: Eversource - Matt Calvert
QUOTE # PO # 10964163

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: CBM Date: 2/5/20

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs w/ Soxhlet (SW846)	HOLD	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
A23644	DUP-0205-1	S	2/5/20	—	X				1									
A23645	DUP-0205-2	↑	↑	—	X				↑									
A23646	DUP-0205-3	↕	↕	—		X			↕									
A23647	DUP-0205-4	↓	↓	—		X			↓									
A23648	DUP-0205-5	S	2/5/20	—		X			1									

Relinquished by:	Accepted by:	Date:	Time:
CBM		2-5-20	1625
		2/5/20	17:16

Comments, Special Requirements or Regulations:
Bill Eversource directly c/o Matthew.Calvert@eversource.com.
Reference PO# 10964163.
Hold samples until WES asks for disposal.

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

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

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

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

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other WES EDD

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

Bobbi Aloisa

From: Berthiaume, Christopher <BerthiaumeC@wseinc.com>
Sent: Monday, February 10, 2020 10:18 AM
To: Bobbi Aloisa
Cc: Bartosz, Ryan
Subject: RE: Berlin PCB rushes

Bobbi,

Please activate the following samples for PCBs by Soxhlet on 1 day TAT or quickest available TAT:

B-267-1 (CF27254)
B-267-2 (CF27255)
B-267-3 (CF27256)
B-267-4 (CF27257)
B-267-5 (CF27258)

B-272-1 (CF27279)
B-272-2 (CF27280)
B-272-3 (CF27281)
B-272-4 (CF27282)
B-272-5 (CF27283)

B-279-1 (CF27314)
B-279-2 (CF27315)
B-279-3 (CF27316)
B-279-4 (CF27317)
B-279-5 (CF27318)

B-282-1 (CF27329)
B-282-2 (CF27330)
B-282-3 (CF27331)
B-282-4 (CF27332)
B-282-5 (CF27333)

B-283-1 (CF27334)
B-283-2 (CF27335)
B-283-3 (CF27336)
B-283-4 (CF27337)
B-283-5 (CF27338)

All information from the COCs will apply to these samples (i.e., reporting limits, reporting and billing details, etc.).

Christopher Berthiaume, EIT
ENGINEER II
direct: 860-956-6914
mobile: 860-966-0173

Weston & Sampson
273 Dividend Road

Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

Facebook | Twitter | LinkedIn

From: Bobbi Aloisa <bobbi@phoenixlabs.com>
Sent: Friday, February 7, 2020 2:02 PM
To: Bartosz, Ryan <BartoszR@wseinc.com>; Berthiaume, Christopher <BerthiaumeC@wseinc.com>; Calvert, Matthew (matthew.calvert@eversource.com) <matthew.calvert@eversource.com>
Subject: Berlin PCB rushes

Bobbi Aloisa
Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com



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From: Bartosz, Ryan
Sent: Tuesday, March 10, 2020 1:13 PM
To: Tisa, Kimberly; Calvert, Matthew
Cc: Trombly, Gary; Trahan, Amber (Amber.Trahan@ct.gov)
Subject: RE: PCB Cleanup at Berlin Campus Settling Basin - proposed modification

Kim,

Our response below in red.

Ryan

From: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Sent: Wednesday, February 19, 2020 2:29 PM
To: Calvert, Matthew <matthew.calvert@eversource.com>
Cc: Trombly, Gary <Gary.Trombly@ct.gov>; Bartosz, Ryan <BartoszR@wseinc.com>; Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>
Subject: RE: PCB Cleanup at Berlin Campus Settling Basin - proposed modification

My apologies. I just spoke with CTDEEP and realized that I had directions incorrect in my comments.

I referred to the new location as being north of the current access road. I was thinking that there was an additional road in that area, not just the other access road.

In speaking with CTDEEP there is only a parking area in the "new" location and the direction would be to the NW of the settling basin in the location of the parking lot.

Just wanted to clarify this for the record. Apologies for any confusion on this.

Kimberly N. Tisa | PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1 | 5 Post Office Square, Suite 100 | Boston, MA 02109-3912
☎: 617.918.1527 | 🖷: 617.918.0527 | 🖂: tisa.kimberly@epa.gov

From: Tisa, Kimberly
Sent: Wednesday, February 19, 2020 12:51 PM
To: Calvert, Matthew <matthew.calvert@eversource.com>
Cc: Trombly, Gary <Gary.Trombly@ct.gov>; Bartosz, Ryan <BartoszR@wseinc.com>; Tisa, Kimberly <Tisa.Kimberly@epa.gov>; Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>
Subject: RE: PCB Cleanup at Berlin Campus Settling Basin - proposed modification

Matt:

This is in response to a letter dated February 12, 2020 and received by EPA on February 18, 2020 pertaining to the Berlin Settling Basin in Berlin, CT.

In this letter, the results of pre-verification sampling for the sheet pile wall and the additional sampling for the catch basin and piping were provided. All PCB concentrations were < 1 ppm.

The letter also proposed a modification to the plan approved by EPA, based on the design of the replacement stormwater system. According to the letter, the final location of this replacement system was shifted to the north of the proposed location due to the topography for the installation, to minimize limits of disturbance, and to allow construction of the system in non-PCB impacted soil. This new location appears to be the north of the current access road.

To support this new location, additional samples were collected for PCBs. This sampling identified PCBs > 1 ppm and in one location PCBs > 50 ppm were identified. Eversource is proposing to manage PCB-contaminated soil in this area in the manner consistent with the current Approval conditions.

Based on its review, **EPA has determined that the modification request cannot be approved** as written for the following reasons:

- There is no discussion in the proposed modification as to why PCBs would be located in the new location;
- The CSM for the site indicates that PCB-impacted soils were already in place prior to the construction of the settling basin and associated stormwater drainage structures (i.e., catch basins and piping). Consistent with the overall CSM for the Site, the "new location" of PCB impacts are likely from handling of cut materials during the installation of this piping and catch basin at the new location. It is suspected that the cut from the settling basin construction was used at the pipe and catch basin location as fill. Horizontally, PCB concentrations in this area are limited to the location of the new area based on our recent delineation. Vertically, extents of PCB impacts are consistent with the limits of excavation of construction of the existing stormwater drainage structures within the new area.

- insufficient information was provided to support the nature/extent of PCB contamination in this area. PCB were not delineated to < 1 ppm, which would be the requirement for unrestricted use under 40 CFR § 761.61(a); and,
- Vertical impacts of PCBs have been delineated to less than 1 ppm with the exception of B-190. However, a clean bottom sample (PCBs detected less than 1 ppm) was obtained at location B-240, which is co-located with location B-190. Based on the data presented in the Notification, the horizontal extent of PCB impacts greater than 1 ppm are also defined in the new location.

- The distribution of PCBs requires discussion given the interval where PCBs were identified in adjacent grids. In co-located grids, PCB > 1 ppm were identified in widely different intervals (e.g., 3-4 ftbgs vs 10-12 ftbgs).
- Due to the heterogenous nature of PCB impacts in the source material (relocated fill from the settling basin construction) and soil mixing that took place during relocation of soil to this area, the variations in PCB distribution are to be expected.

Should you have any questions, please feel free to contact me to discuss.

Kimberly N. Tisa | PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1 | 5 Post Office Square, Suite 100 | Boston, MA 02109-3912
☎: 617.918.1527 | 🖷: 617.918.0527 | ✉: tisa.kimberly@epa.gov

From: Calvert, Matthew <matthew.calvert@eversource.com>
Sent: Friday, December 06, 2019 4:04 PM
To: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Cc: Trombly, Gary <Gary.Trombly@ct.gov>; Bartosz, Ryan <BartoszR@wseinc.com>
Subject: PCB Cleanup at Berlin Campus Settling Basin

Hi Kim
In accordance with the PCB Cleanup and Risk Based Disposal Approval Conditions at Eversource Berlin Campus Settling Basin, dated June 27, 2019; attached are the certifications signed by the oversight contractor, remediation contractor, and the analytical laboratory (Conditions 11 b and 11 c.) Tree and brush clearing will be starting December 16th and the pre-excavation samples for sheet pile will be collected after the brush clearing.

If you have any additional questions please feel free to contact me.

Thanks,
Matt

Matthew P. Calvert, LEP, LSP, PG, CHMM
Senior Environmental Specialist
EVERSOURCE ENERGY
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Berlin, CT 06037
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712 Brook Street, Suite 103, Rocky Hill, CT 06067
Tel: 860.513.1473

September 15, 2020

Ms. Kimberly N. Tisa, PCB Coordinator
U.S. Environmental Protection Agency, Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100 (LCRD7-2)
Boston, MA 02109-3912

Re: **Notification and Modification Request**
Berlin Settling Basin Remedial Action
Eversource Energy Services Company
107 Selden Street, Berlin, CT

Dear Ms. Tisa:

On behalf of Eversource Energy Services Company (Eversource}, Weston & Sampson has prepared this notification and modification request for the remediation of poly chlorinated biphenyls (PCB)-impacted soil at the Berlin Settling Basin at the above referenced address. The remedial plan was approved in a letter from the United States Environmental Protection Agency (EPA) dated June 27, 2019 (the Approval).

General Condition 1a of the Approval requires that Eversource notify EPA in the event that PCB-impacted soil or other media not described in the remedial plan are encountered. In addition, General Condition 16 of the Approval requires that any proposed modifications to the approved remedial plan be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change.

As described below, Eversource is notifying EPA that PCB-impacted debris (e.g., brick, metal, concrete masonry units, wood, charred materials) has been encountered and that soil with PCB concentrations greater than or equal to fifty milligrams per kilogram (≥50 mg/kg) have been found at locations not identified during the site characterization as described in the remedial plan. Also described below, Eversource is requesting a modification to the remedial plan regarding remedial goals. As described in the remedial plan, soil with >10 mg/kg total PCBs will be removed and no modification to this remedial standard is requested. However, Eversource is requesting that they be allowed to expand the area with soil containing ≤10 mg/kg and capped following the completion of remediation.

Notification

Eversource is providing this written notification to EPA to describe two newly identified conditions at the Berlin Settling Basin. These are:

1) Identification of debris within the excavations performed beneath the Campus Access Drive with some of the debris impacted by PCBs. The locations of debris identified are shown on the attached modification of Figure 3 from the remedial plan submitted for the site.
2) Identification of soil impacted with PCBs at concentrations ≥50 mg/kg in soil beneath the Campus Access Drive. Previous site characterization was not performed within the road and borings performed on either side of the road were used to design remedial actions. Characterization soil samples collected from borings on both sides of the road did not have total PCB concentrations >10 mg/kg in soil samples.

Remedial excavations in other areas of the site are nearly complete and the following are findings from the remediation:

1) Debris has only been encountered in the excavations performed beneath the Campus Access Drive. In addition, the remedial goal as stated in the remedial plan of removing soil with total PCB concentrations >1 mg/kg has been achieved at the northwest and southeast end of the excavations and debris was not encountered at these limits of proposed excavations within the road.
2) Boring logs for soil borings performed on either side of the road in the section where debris was identified are attached and debris was not encountered except for pieces or creosote treated wood from B-206 which was believed to be from a former pole as the location formerly served as a pole-training area.
3) In the remedial plan, it was estimated that 1,100 tons of soil and concrete with total PCB concentrations ≥50 mg/kg would be removed from the site for disposal. Remedial excavations for soil with PCBs ≥50 mg/kg have been completed at the site except for the location below the Campus Access Drive and a total of 1,337 tons have been transported from the site. This total includes the 275 tons of debris and soil removed from beneath the Campus Access Drive. Thus, the initial site characterization did a good job of delineating the extent of soil with total PCB concentrations ≥50 mg/kg except for beneath the Campus Access Drive where no soil borings were performed.

Thus, given that (1) extensive excavations have been performed at the site without debris and (2) the extent of debris beneath the road has been delineated; it is not believed that there are other locations within the remedial area where debris might be encountered. In addition, the site characterization performed accurately delineated the extent of soil with total PCBs ≥50 mg/kg as indicated by the estimated and actual totals for disposal. Thus, it is not believed that additional areas of soil with total PCBs ≥50 mg/kg will be encountered.

As discussed in our phone call on Monday, August 24th, debris was encountered within an excavation beneath the Campus Access Drive at the Berlin Settling Basin. Samples of the debris indicated that some of the materials contained PCBs at concentrations ≥50 mg/kg. Excavations were performed to remove debris with disposal at a Chemical Waste Landfill and verification sampling was performed along the excavation sidewalls and base following the debris removal. Attached is a modified Figure 3 from the remedial plan that shows the location of the "Debris Area" excavation at the site and Figure 1 which shows a plan view of the excavation with confirmatory sample locations and total PCB results.

As shown on Figure 1, the excavation is separated into two adjoining sections. The area designated as Road Excavation 1 has been excavated to a depth of approximately ten feet below grade while the area designated as Road Excavation 2 has been excavated to a depth of approximately six feet below grade. PCB concentrations at the base of Road Excavation 1 range from 57 mg/kg to 11,000 mg/kg. Figure 2 provides a cross-section of the excavation at the location shown on Figure 1. This figure shows the difference in base elevations and indicates the area where PCB concentrations are ≥50 mg/kg.

Given the PCB concentrations determined at the base of Road Excavation 1, the following actions were performed:

1) An excavator was used to handle soil within the area of >50 mg/kg total PCBs so that soil samples could collected from two and five feet below the base of Road Excavation 1 (approximately 12 and 15 feet below grade) and the samples were determined to have total PCB concentrations of 12 mg/kg and 29 mg/kg, respectively. The samples were also tested for extractable total petroleum hydrocarbons (ETPH) and both samples were non-detect. All soil was handled within the area of high PCB impacts and will be disposed of as PCB remediation waste with total PCB concentrations ≥50 mg/kg. A photograph showing the area sampled is attached.
2) Groundwater was encountered at five feet below the base of Road Excavation 1. Given that significant additional excavation may be required to address the approximately 30-foot by 30-foot area with elevated PCB concentrations and that the excavation will extend into the groundwater table, ten soil borings were performed around the perimeter of the excavation as shown on the attached Figure 3. Samples were collected for total PCBs at five-foot intervals within the borings and results are pending.

3) Excavation to achieve remedial goals may require installation of sheet piling and this will be evaluated after the sample results are received. An additional plan for remedial actions in this area will be submitted to both EPA and the Connecticut Department of Energy and Environmental Protection (CT DEEP) describing the planned remedial actions to achieve remedial goals once they have been developed.

As also discussed during our phone call on Monday, August 24th, the presence of debris was suspected within an area to the southwest of the "Debris Area" excavation. Two test pits were performed within this area and debris was encountered and sampled. Analytical results from the two test pits are summarized in the attached Table 1 and the test pit locations are shown on the attached modified Figure 3. All samples collected were analyzed for total PCBs by EPA Methods 3540/8082 and the results are summarized as follows:

- Three separate debris types were identified in Test Pit 1 that included a black, viscous, and non-flowing tar material, gray ash, and black (possibly charred) debris. PCBs were not detected in any of the samples with reporting limits less than 1 mg/kg. A photograph of the sidewall where these materials where identified is attached.
- A sample of soil was collected from the base of the excavation after debris had been removed and PCBs were not detected in the base soil sample with a reporting limit less than 1 mg/kg.
- Three separate debris types were identified in Test Pit 2 that included ceramic tile, felt material, and stained wood. PCBs were not detected in the debris except for the felt material which had a total PCB concentration of 31 mg/kg. A photograph of the sidewall where these materials where identified is attached.
- Two samples of soil were collected from the sidewalls within the layer of debris in Test Pit 2 PCBs were not detected in the soil samples with reporting limits less than 1 mg/kg.
- A sample of soil from the base was collected after the debris had been cleared in Test Pit 2 and PCBs were not detected in the soil samples with a reporting limit less than 1 mg/kg.

Except for the felt material, PCBs were not identified in any of the debris samples collected from the test pits. In addition, soil collected from within the layer of debris were also non-detect for PCBs. Thus, the debris material in this area appears to be different than that identified in Debris Area excavation.

The propose remedial actions for this area are as follows:

- The area of Test Pit 2 will be excavated, and the soil disposed of at a Chemical Waste Landfill. The excavation will extend to a depth until all debris has been removed. The extent of the excavation will be determined by examining the sidewalls to determine that all of the felt material found in this location has been removed.
- Any tar-like material or obviously oil-stained materials will also be excavated and disposed at a Chemical Waste Landfill.
- Verification sampling will be performed as per Subpart O. In addition, the sidewalls will be inspected, and a sample of each unique debris material identified will be collected and submitted for analysis of total PCBs.
- The excavation will be complete when all verification and debris sample results from the debris area excavations are ≤10 mg/kg. Additional verification samples will be collected for polyaromatic hydrocarbons (PAHs) and ETPH once the extent of PCB excavations have been reached. Additional excavation may be performed based upon these results if PAHs and ETPH are identified at concentrations that leach at a concentration that may pose a risk to groundwater. But, because the soil with total PCB concentrations <10 mg/kg will be rendered inaccessible in accordance with the requirements of the Remediation Standard Regulation, the PAH and ETPH impacts would also be inaccessible.

Modification

The remedial goal stated in the remedial plan for the soil beneath the Campus Access Drive and to the north and east was to remove all soil with total PCB concentrations >1 mg/kg. Eversource requests that the remedial goal for this area be modified as follows:

- Soil with total PCB concentrations >10 mg/kg will be removed at all depths;
- Soil with total PCB concentrations ≤10 mg/kg will be rendered inaccessible in accordance with the requirements of the Remediation Standard Regulation; and
- The Environmental Land Use Restriction (ELUR) planned for the Site will be expanded to include all areas of the site where soil with total PCB concentrations >1 mg/kg but ≤10 mg/kg remain in place.

Eversource plans to clearly delineate the area covered by the ELUR by installing fencing around the perimeter. This fencing will be extended around the entire area to be covered under the ELUR except for within the road.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.



Ryan S. Bartosz
Senior Project Manager, LEP

Attachments

cc: Gary Trombly, CT DEEP
Amber Trahan, CT DEEP



VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- PROPOSED TEMPORARY CONSTRUCTION FENCE
- TP–1 — NUSCO SOIL SAMPLE LOCATION (JULY 2010)
- WSE–1 — SOIL BORING SAMPLE LOCATION (2010)
- MW–1 (10.00') — MONITORING WELL LOCATION – JULY 2015 – HIGHEST OBSERVED WATER TABLE. MEASURED FROM EXISTING GROUND SURFACE

- < 1.0 MG/KG PCBs
- < 10.0 MG/KG PCBs
- < 25.0 MG/KG PCBs
- < 50.0 MG/KG PCBs
- > 50.0 MG/KG PCBs

NOTES:

1. SUBPART O CONFIRMATORY SAMPLING TO BE CONDUCTED FOLLOWING EXCAVATION. ADDITIONAL EXCAVATION MAY BE REQUIRED BASED ON CONFIRMATORY RESULTS.
2. DEPTH OF EXCAVATION (CUT) IN FEET FROM EXISTING GROUND SURFACE.

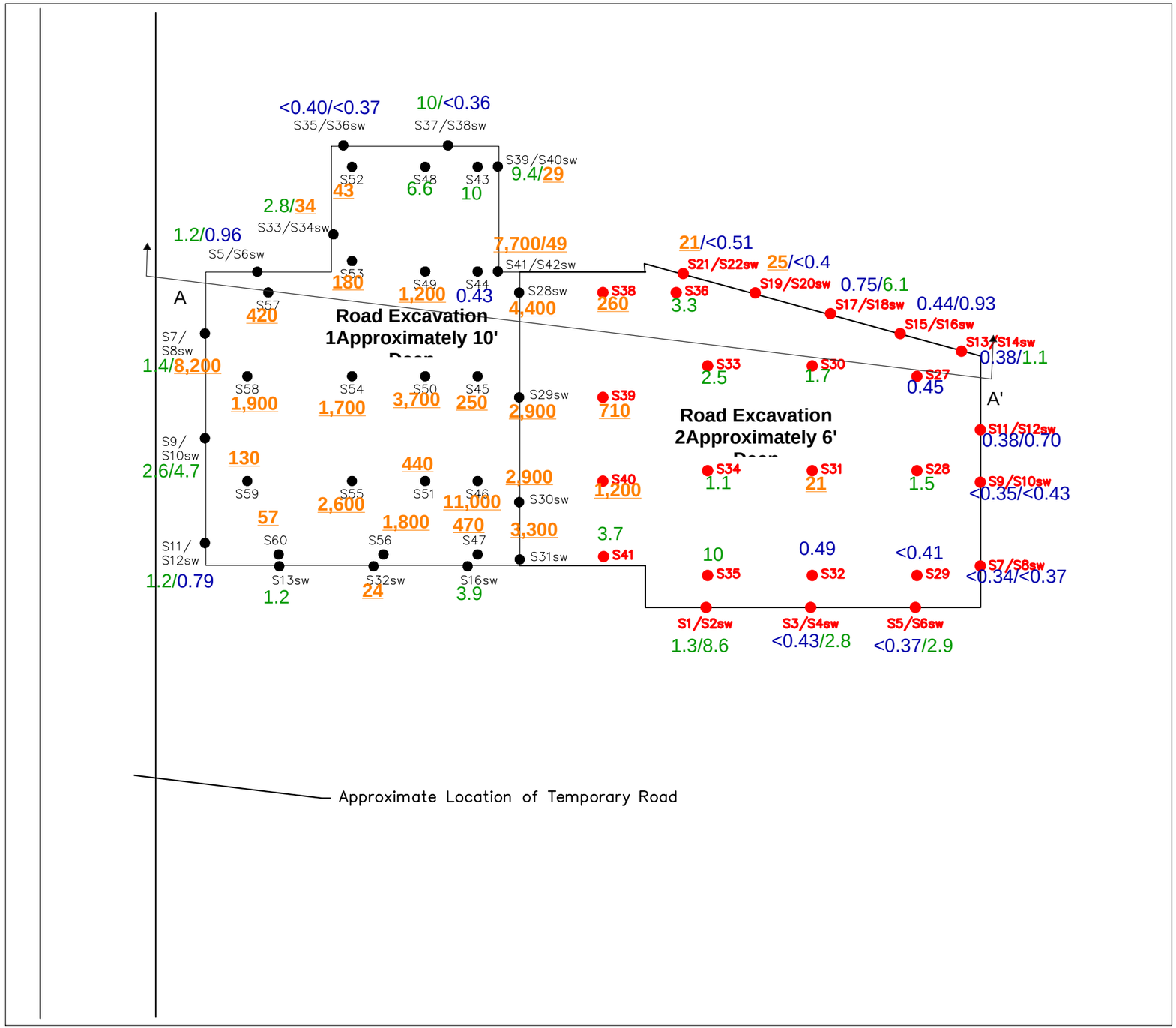
Modified September 15, 2026

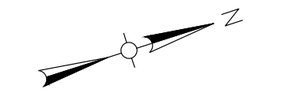
FIGURE 3
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN
SITE INVESTIGATION PCB RESULTS

OCTOBER 2018 SCALE: 1" = 15'

Weston & Sampson

\\wes13.local\WES\Projects\CT\NUSCH-Eversource\Berlin_Settling Pond\CAD October 2018\BSB Figure 3.dwg





SCALE: 1"=5'

LEGEND

ROAD EXCAVATION 1 (RE1)

ROAD EXCAVATION 2 (RE2)

ROAD EXCAVATION 1 SAMPLE LOCATION (RE1–XXXX)

ROAD EXCAVATION 2 SAMPLE LOCATION (RE2–XXXX)

NOTE:

SAMPLE LOCATION PLAN DERIVED FROM EXISTING SITE FEATURES TAKEN IN THE FIELD BY WESTON & SAMPSON. THE LOCATIONS AND DIMENSIONS OF ALL FEATURES ARE APPROXIMATE.

"sw" IN A SAMPLE ID INDICATES A SIDEWALL SAMPLE. FOR SIDEWALLS WHERE MORE THAN ONE SAMPLE WAS COLLECTED, THE FIRST SAMPLE RESULT LISTED IS FOR THE UPPER SAMPLE AND THE SECOND RESULT LISTED IS FOR THE LOWER SAMPLE

FIGURE 1

EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CT

CONFIRMATORY SAMPLE LOCATIONS
(DEBRIS REMOVAL AREA EXCAVATIONS)

SEPTEMBER 2020 SCALE: NTS

Weston & Sampson℠

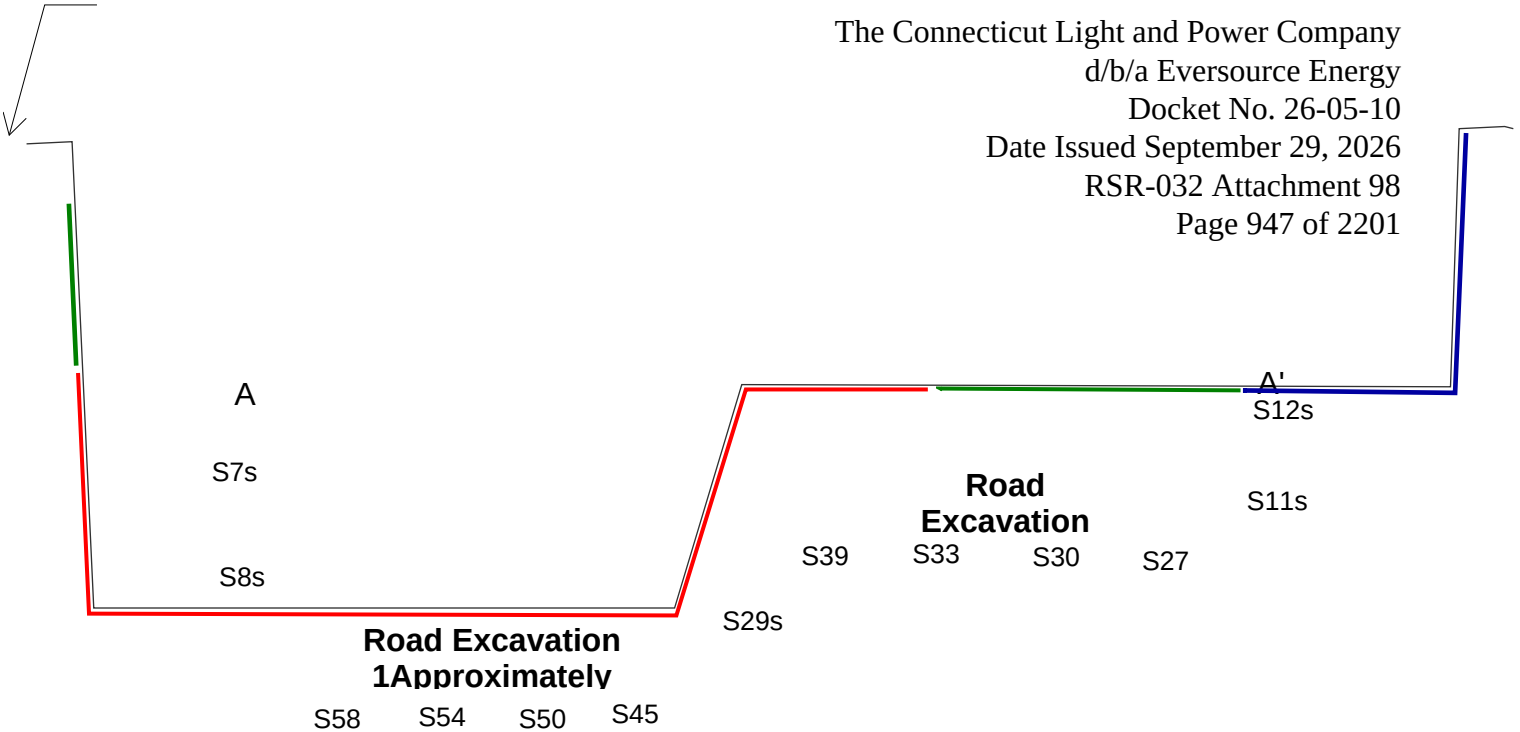
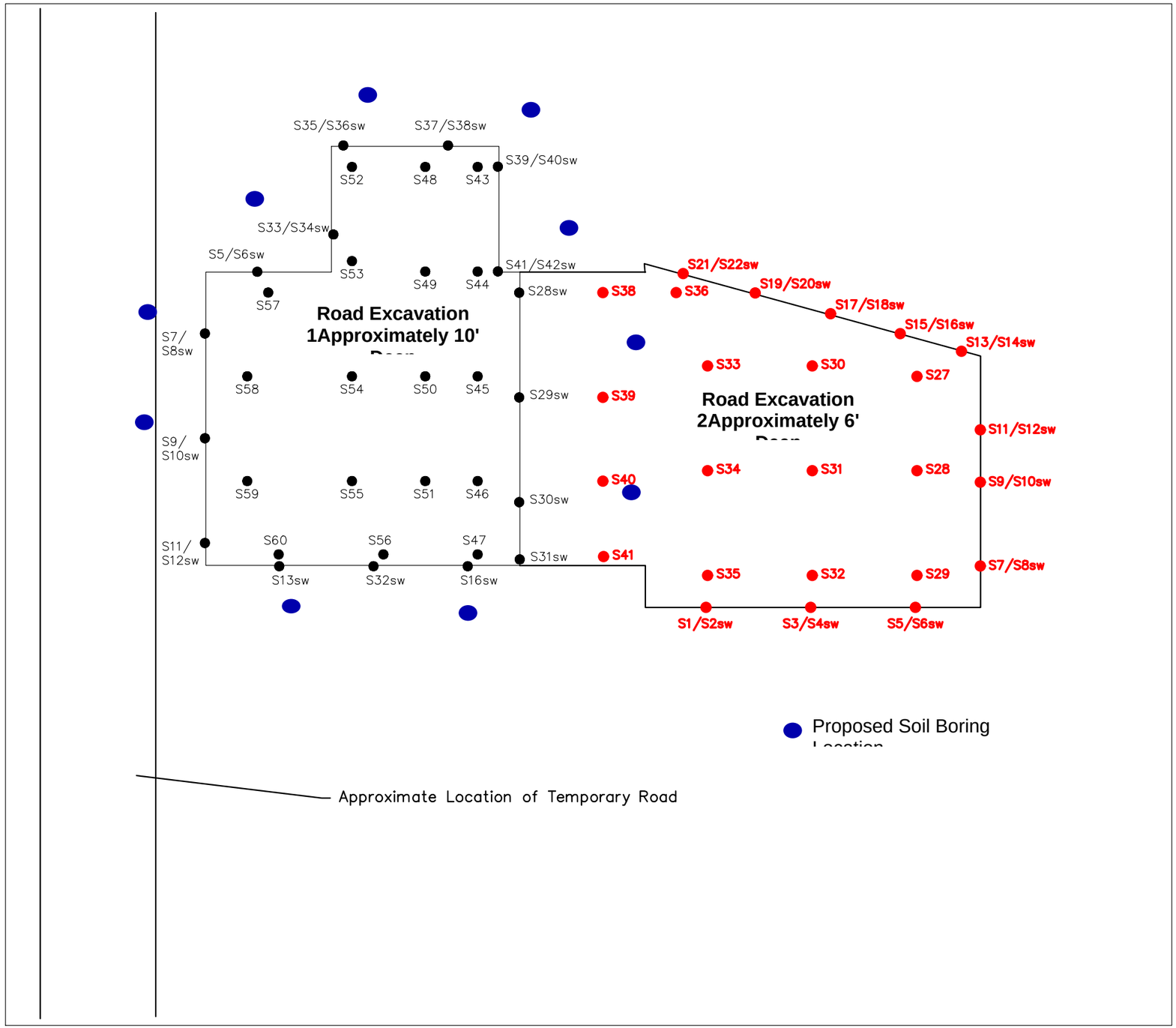


FIGURE 2EVERSOURCE ENERGYBERLIN SETTLING BASINBERLIN, CTDEBRIS REMOVAL AREA EXCAVATION CROSS-SECTION(DEBRIS REMOVAL AREA EXCAVATIONS)SEPTEMBER 2020
SCALE: NTS

Weston & Sampson



N

0 5' 10'

SCALE: 1"=5'

LEGEND

ROAD EXCAVATION 1 (RE1)

ROAD EXCAVATION 2 (RE2)

ROAD EXCAVATION 1 SAMPLE LOCATION (RE1–XXXX)

ROAD EXCAVATION 2 SAMPLE LOCATION (RE2–XXXX)

NOTE:

SAMPLE LOCATION PLAN DERIVED FROM EXISTING SITE FEATURES TAKEN IN THE FIELD BY WESTON & SAMPSON. THE LOCATIONS AND DIMENSIONS OF ALL FEATURES ARE APPROXIMATE.

FIGURE 3

EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CT

ADDITIONAL SOIL BORING LOCATIONS
(DEBRIS REMOVAL AREA EXCAVATIONS)

SEPTEMBER 2020 SCALE: NTS

Weston & Sampson℠

Table 1
Test Pit Debris and Soil PCB Concentrations
Berlin Settling Basin Remediation
Berlin, Connecticut

Sample ID	Sample Location	Sample Date	Total PCBs (mg/kg)	Material Description
TP-1 Black Tar	Test Pit 1 NW Sidewall	8/25/2020	<0.86	Black Gummy Tar Material
TP-1 Black Debris	Test Pit 1 East Sidewall	8/25/2020	<0.70	Mixed Black Debris
TP-1 Gray Ash	Test Pit 1 East Sidewall	8/25/2020	<0.54	Gray Ash Layer
TP-1 Bottom	Test Pit 1 Base	8/25/2020	<0.44	Bottom Soil
TP-2 Ceramic	Test Pit 2 NW Sidewall	8/25/2020	<0.98	Stained Ceramic Material
TP-2 Felt	Test Pit 2 NW Sidewall	8/25/2020	**31**	Black Felt Material
TP-2 Wood	Test Pit 2 West Sidewall	8/25/2020	<0.83	Dark Stained Wood
TP-2 Soil South	Test Pit 2 South Sidewall	8/25/2020	<0.39	Sand/Debris South Sidewall
TP-2 Soil NW	Test Pit 2 NW Sidewall	8/25/2020	<0.34	Soil Northwest Sidewall
TP-2 Soil Base	Test Pit 2 Base	8/25/2020	<0.38	Soil/Debris Base



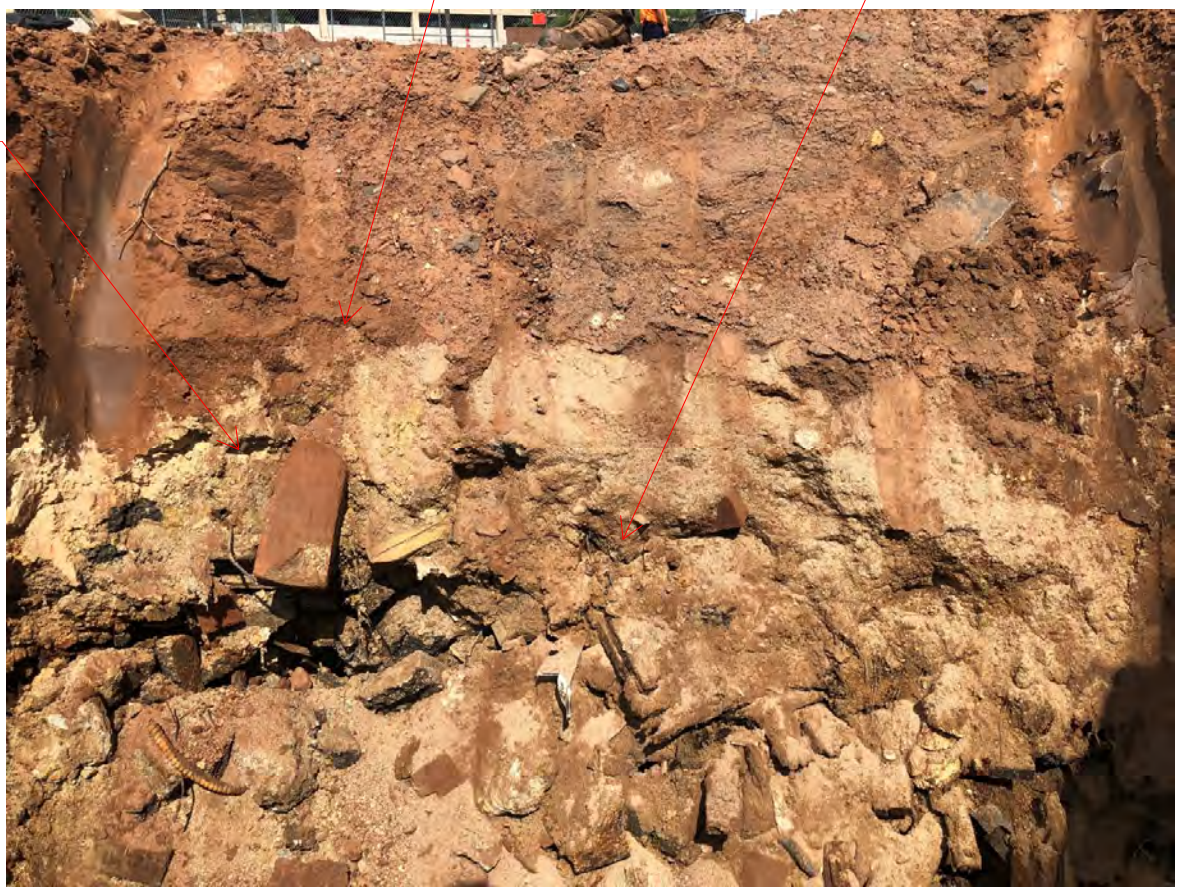
Test Pit 1 Northeast Sidewall

Sample	Total PCBs
Black Tar	<0.86
Gray Ash	<0.54
Mixed Black Debris	<0.70
Bottom Soil	<0.44

Ceramic

Stained

Black
Felt



Test Pit 2 Northwest Sidewall

Sample	Total PCBs
Ceramic	<0.98
Felt	31
Wood	<0.83



Deep Excavation to Groundwater

712 Brook Street, Suite 103, Rocky Hill, CT 06067
Tel: 860.513.1473

October 21, 2020

Ms. Kimberly N. Tisa, PCB Coordinator
U.S. Environmental Protection Agency, Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100 (LCRD7-2)
Boston, MA 02109-3912

Re: **Notification and Modification Request – Supplemental Information**
Berlin Settling Basin Remedial Action
Eversource Energy Services Company
107 Selden Street, Berlin, CT

Dear Ms. Tisa:

On behalf of Eversource Energy Services Company (Eversource), Weston & Sampson has prepared this supplemental submittal for the Notification and Modification Request (Request) for the remediation of polychlorinated biphenyl (PCB)-impacted soil at the Berlin Settling Basin at the above referenced address. The remedial plan was approved in a letter from the United States Environmental Protection Agency (EPA) dated June 27, 2019 (the Approval). The Request was provided to EPA and the Connecticut Department of Energy and Environmental Protection (CT DEEP) on September 15, 2020.

The Request was provided to EPA and CT DEEP to notify them of conditions not previously identified at the Site within excavations performed beneath the Campus Access Drive as part of the Berlin Settling Basin remediation. The conditions included (1) soil impacted with PCBs at concentrations ≥50 milligram per kilogram (mg/kg) and (2) debris within the excavations with some of the debris impacted by PCBs. These areas were not previously identified during site characterization because soil borings were not performed within the roadway. The modification requested was to extend the area to be covered by an Environmental Land Use Restriction (ELUR). Specifically, the area with PCBs in soil at concentrations >1 mg/kg but <10 mg/kg and rendered inaccessible would extend beneath the Campus Access Drive. This submittal provides additional information requested by EPA and CT DEEP following their review of the Request and discussion of the information provided.

Supplemental Information for the Request

The area with total PCBs ≥50 mg/kg is shown on the attached Modified Figure 6 from the approved remedial plan for the Site as is the remaining area of debris.

Excavation at ≥50 mg/kg PCBs Area

Discovery of debris and actions taken in the area with total PCBs ≥50 mg/kg were described in the original Request and included (1) discovery of debris, (2) testing debris with results ≥50 mg/kg PCBs obtained, (3) removal of debris and disposal at a chemical waste landfill, and (4) verification sampling of the area following the removal of debris. Soil with total PCBs ≥50 mg/kg were identified in the verification samples collected following debris removal and additional characterization was deemed necessary to design additional remedial actions. The following activities have been performed to complete this additional characterization:

1) Geotechnical borings were advanced to collect data needed to design a sheet pile enclosure for the remediation which will extend beneath the groundwater table. In addition, analytical data for samples collected from the geotechnical borings P2-1 and P2-2 are included with this submittal.
2) An additional 62 soil borings (2B1 through 2B62) were performed on a five-foot by five-foot grid. Samples were collected at five-foot intervals within each boring and the soil analyzed for total PCBs using EPA

Methods 3540 and 8082. Because the sidewalls of the excavation were steep and the base could not be accessed by Geoprobe without modification, poly sheeting was spread across the base of the excavation and soil removed from a sidewall to create an access ramp into the excavation and to level the base. As discussed below, all soil to be removed as part of the remedial actions described will be transported for disposal as PCB Remediation Waste ≥50 mg/kg at a chemical waste landfill and that includes all soil moved into the excavation to level the base.

3) A pre-constructed well point with sand pack was installed within boring 2B50 and a groundwater sample was collected and analyzed for Volatile Organic Chemicals (VOCs), metals, PCBs, polyaromatic hydrocarbons (PAHs), extractable total petroleum hydrocarbons (ETPH), as well as other parameters (e.g., nitrogen, phosphorus, pH) required under the permit to discharge water to a Water Pollution Control Facility (WPCF).

Geotechnical and other soil boring locations are shown on the attached Figure 1, soil data are presented in Table 1, and data from the groundwater sample collected are provided in Table 2. Two depths are listed for each sample location on Table 1. The "Depth Below Existing Grade" represents the depth of the soil sample from the ground surface at that location. The "Relative Depth Below Grade" represents the depth of the soil sample measured from the ground surface at soil boring SB62 which has been assigned an elevation of zero.

As shown on Figure 1, the horizontal extent of PCBs <10 mg/kg was delineated around the perimeter of the characterization area except at soil borings 2B25 and 2B33 which are located on the west side of the characterization area and 2B58 and 2B59 which are located on the north side. In the original Request, there was one sidewall sample (S8sw) that had a total PCB concentration of 8,200 mg/kg. This sidewall location has been delineated in the horizontal by the samples collected at P2-1 and P2-2 which were all <10 mg/kg total PCBs.

Figure 2 shows the proposed location of sheet pile installation and the locations for two excavations to be performed prior to driving sheet pile. The excavation on the north side of the sheet pile area will be performed to a depth of 14.5 feet and the excavation on the west side of the sheet pile will be performed to a depth of 16.5 feet. These depths are that for the first sample with PCB concentrations <10 mg/kg beneath the soil to be excavated.

These excavations outside of the proposed sheet pile locations will be completed because (1) performing these excavations will limit the area to be surrounded by sheet pile and simplify the installation and (2) the proposed depths of the excavations will only reach and not penetrate the groundwater table. The sidewalls and base of the excavations will be sampled as per Subpart O to determine that soil with total PCB concentrations >10 mg/kg has been removed. Excavated soil will be transported for disposal as PCB Remediation Waste ≥50 mg/kg at a chemical waste landfill. Sheet pile will then be driven around the perimeter as shown on Figure 2 in soil with PCB concentrations <10 mg/kg.

Cross-sections shown on Figure 2 are provided on Figures 3 and 4. The depth to the observed groundwater table is 16.5 feet below the ground surface at SB62 and is shown on the cross-sections. The plan for excavating soil within the sheet pile is as follows:

1) Soil will be excavated down to the water table which is anticipated to be approximately 16.5 feet below the ground surface at SB62.
2) Additional excavation will be performed with dewatering to a minimum depth of 26.5 feet below grade.
3) Final excavation will be performed as shown on Figure 2 and the cross-sections on Figures 3 and 4 to remove soil down to a depth of 30 feet below grade. It is anticipated that the sidewalls will need to be sloped to reach this depth.

All of the soil removed during these excavations will be transported for disposal as PCB Remediation Waste ≥50 mg/kg at a chemical waste landfill. Vertical delineation of PCB impacts >10 mg/kg was completed at all boring locations except at 2B27 and 2B36. The proposed depths of the excavations to be performed are well into soil

already characterized to be <10 mg/kg based upon a Subpart O sampling grid except at those two locations. No verification sampling of the base is proposed except for three samples to be collected within the 30-foot deep excavation area. The sheet pile area will be backfilled if those three verification samples are <10 mg/kg. If verification sample results are >10 mg/kg, additional excavation will be required.

Following completion of the excavations and backfilling, the sheet pile will be pulled and placed on a preconstructed decontamination area. No sidewall verification samples will be performed because the sheet pile will be installed in soil with predetermined PCB concentrations <10 mg/kg.

Sheet pile will be decontaminated by:

1) Washing the sheet pile with a detergent solution to remove dirt and grime;
2) Rinsing the sheet pile with water;
3) Washing the sheet pile with a solution containing d-limonene at concentrations >75%; and
4) Rinsing the sheet pile with water.

Aqueous wastes from the decontamination of sheet pile will be containerized and characterized for decontamination. Dewatering effluent from the excavation area will be run through sand filters to remove solids and carbon and discharged to a Water Pollution Control Facility under a permit. The sand and carbon will be removed from the filter housings and transported for disposal as PCB Remediation Waste ≥50 mg/kg at a chemical waste landfill.

Remaining Debris Area Beneath Campus Access Drive

The northern extent of remaining debris beneath the Campus Access Drive has been determined by the deep excavations performed to date within the area of soil with PCB concentrations ≥50 mg/kg. Verification samples results in the two-foot excavation performed beyond the northern extent of this area (as shown on the attached modified Figure 6) were all <1 mg/kg total PCBs. As shown on Figure 1 provided with the original Notification and Modification Request, verification sample results at the eastern extent the excavation area were all <1 mg/kg.

The southern extent of remaining debris has been determined by the 6' deep excavation performed at the site and verification results within this area are <1 mg/kg total PCBs. No additional excavation or verification is proposed for this area.

A temporary access road was constructed to the west of the Campus Access Drive so that excavations could be performed within the roadway without interrupting traffic flow and this area has not yet been excavated as shown on the attached modified Figure 6 from the remedial plan. Excavations have been completed to the west of this access road and no debris was identified within these excavations and the remedial goal of PCBs <10 mg/kg have been achieved. Those excavations are now being backfilled and another temporary access road will be constructed over those backfilled excavations so that the current temporary access road can be excavated to the depths shown on the attached modified Figure 6. Excavated soil and remaining base and sidewalls will be visually checked to determine if debris is present. If debris is found, samples will be collected of the debris to determine PCB concentrations and disposal of the soil and debris removed from these areas will be disposed of based upon the PCB concentrations determined in the debris. Remediation beneath the currently existing temporary access road will be complete when the remedial goal of PCBs <10 mg/kg has been achieved.

Within the debris area shown on the attached modified Figure 6, debris will be removed and disposed of as PCB Remediation Waste ≥50 mg/kg at a chemical waste landfill as described in the original Notification and Modification Request which is as follows:

- The area of Test Pit 2 will be excavated, and the soil disposed of at a Chemical Waste Landfill. The excavation will extend to a depth until all debris has been removed. The extent of the excavation will be

determined by examining the sidewalls to determine that all of the felt material found in this location has been removed.

- Any tar-like material or obviously oil-stained materials will also be excavated and disposed at a Chemical Waste Landfill.
- Verification sampling will be performed as per Subpart O. In addition, the sidewalls will be inspected, and a sample of each unique debris material identified will be collected and submitted for analysis of total PCBs.
- The excavation will be complete when all verification and debris sample results from the debris area excavations are ≤10 mg/kg. Additional verification samples will be collected for polyaromatic hydrocarbons (PAHs) and ETPH once the extent of PCB excavations have been reached. Additional excavation may be performed based upon these results if PAHs and ETPH are identified at concentrations that leach at a concentration that may pose a risk to groundwater. But, because the soil with total PCB concentrations <10 mg/kg will be rendered inaccessible in accordance with the requirements of the Remediation Standard Regulation, the PAH and ETPH impacts would also be inaccessible.

Verification sampling as per Subpart O will be performed over this entire area following debris removal and excavation of soil will be performed until all verification sample results are <10 mg/kg except for along the eastern extent of the remediation area. To provide a delineation of the area requiring an ELUR, verification samples along the eastern extent will be <1 mg/kg.

Supplemental Information for the Request

The remedial goal stated in the remedial plan for the soil beneath the Campus Access Drive and to the north and east was to remove all soil with total PCB concentrations >1 mg/kg. Eversource requested that the remedial goal for this area be modified as follows:

- Soil with total PCB concentrations >10 mg/kg will be removed at all depths;
- Soil with total PCB concentrations ≤10 mg/kg will be rendered inaccessible in accordance with the requirements of the Remediation Standard Regulation; and
- The ELUR planned for the Site will be expanded to include all areas of the site where soil with total PCB concentrations >1 mg/kg but ≤10 mg/kg remain in place.

EPA and CT DEEP indicated that this was acceptable but requested that a site plan be provided showing the new area for the ELUR and how this will be delineated before formally agreeing to the modification. Attached is Drawing C-7 from the Bid Documents prepared for the project showing:

1) Fencing to be installed to delineate the ELUR area with additional fencing now planned for the west side of the Campus Access Drive.
2) A highlighted area to be covered under the ELUR which will be delineated by the fence line.

If you have any questions or comments on the materials provided in this submittal, please feel free to contact me via email at bartoszr@wseinc.com or phone at 860-956-6948.

Sincerely,

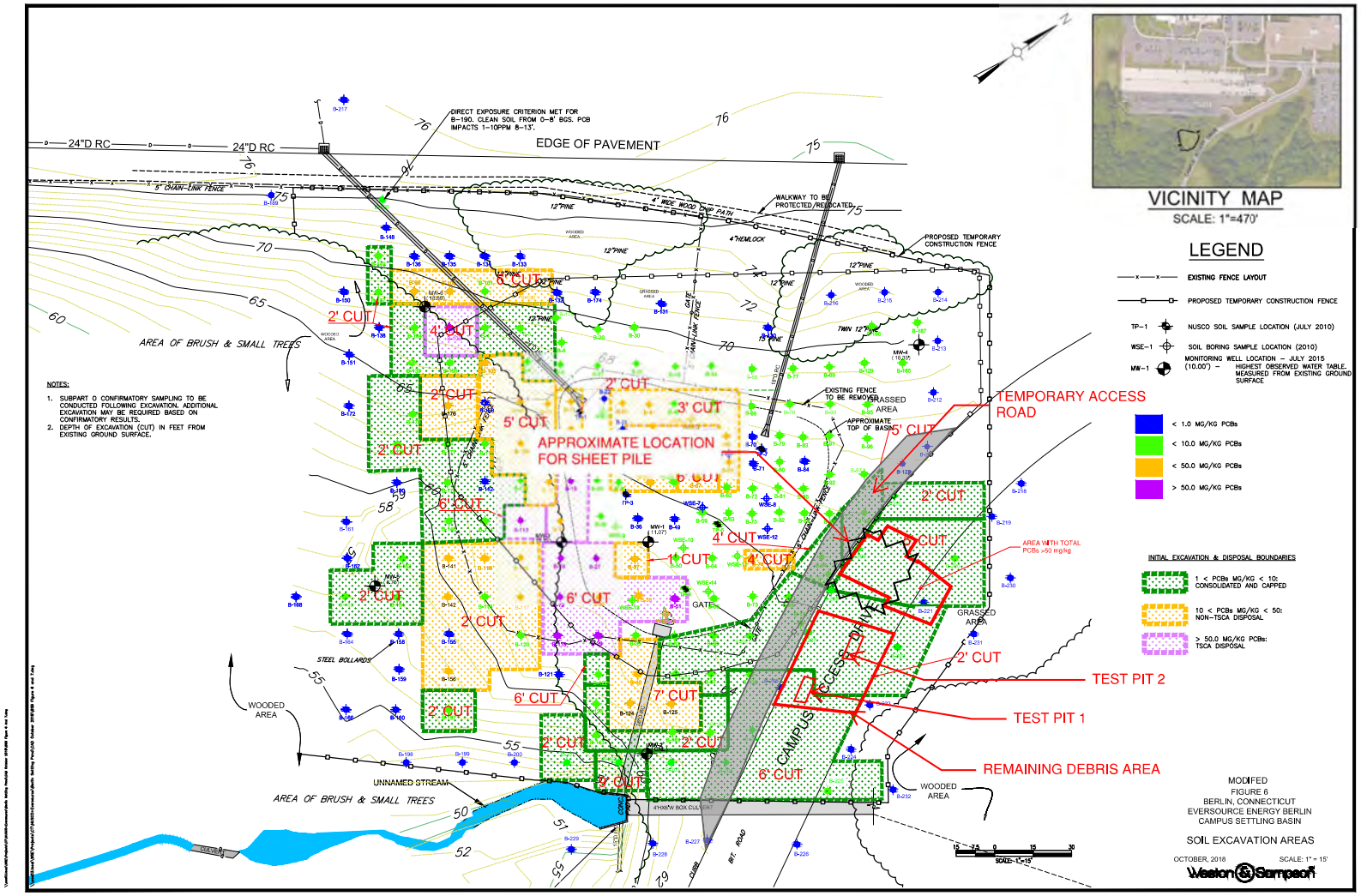
WESTON & SAMPSON ENGINEERS, INC.

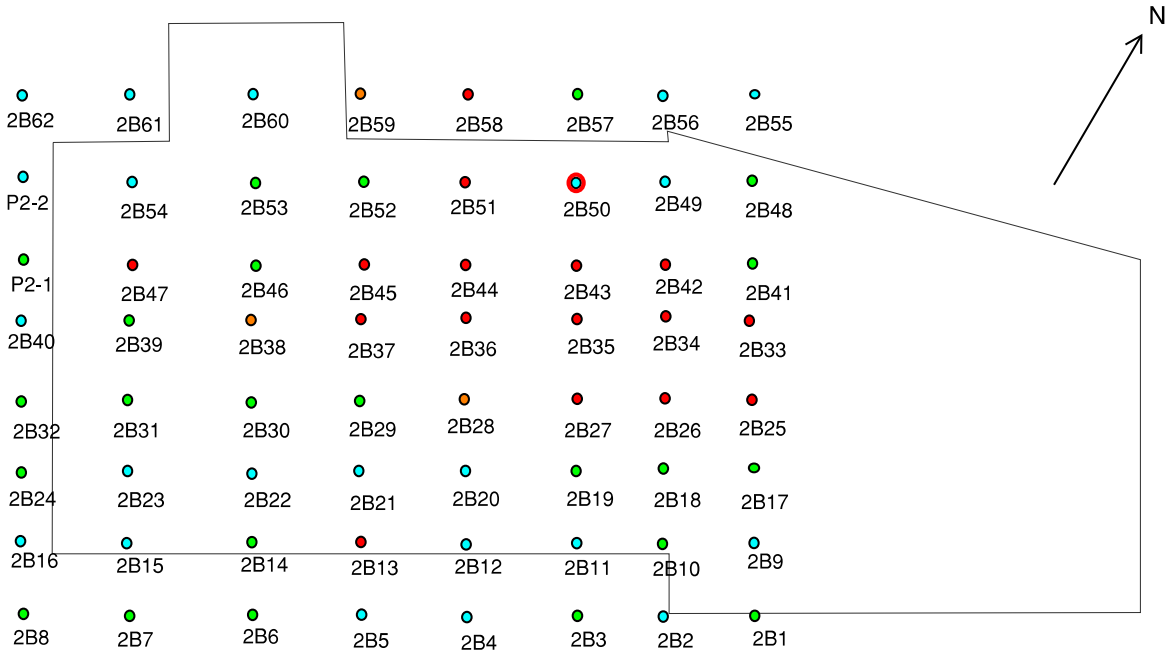


Ryan S. Bartosz
Senior Project Manager, LEP

Attachments

cc: Gary Trombly, CT DEEP
Amber Trahan, CT DEEP


VICINITY MAP
SCALE: 1"=470'
LEGEND
EXISTING FENCE LAYOUT
PROPOSED TEMPORARY CONSTRUCTION FENCE
NUSCO SOIL SAMPLE LOCATION (JULY 2010)
SOIL BORING SAMPLE LOCATION (2010)
MONITORING WELL LOCATION – JULY 2015
HIGHEST OBSERVED WATER TABLE. MEASURED FROM EXISTING GROUND SURFACE
< 1.0 MG/KG PCBs
< 10.0 MG/KG PCBs
< 50.0 MG/KG PCBs
> 50.0 MG/KG PCBs
INITIAL EXCAVATION & DISPOSAL BOUNDARIES
1 < PCBs MG/KG < 10: CONSOLIDATED AND CAPPED
10 < PCBs MG/KG < 50: NON-TSCA DISPOSAL
> 50.0 MG/KG PCBs: TSCA DISPOSAL
NOTES:
1. SUBPART O CONFIRMATORY SAMPLING TO BE CONDUCTED FOLLOWING EXCAVATION. ADDITIONAL EXCAVATION MAY BE REQUIRED BASED ON CONFIRMATORY RESULTS.
2. DEPTH OF EXCAVATION (CUT) IN FEET FROM EXISTING GROUND SURFACE.
DIRECT EXPOSURE CRITERION MET FOR B-190. CLEAN SOIL FROM 0-8' BGS. PCB IMPACTS 1-10PPM 8-13'.
EDGE OF PAVEMENT
24"D RC
6' CHAIN-LINK FENCE
WALKWAY TO BE PROTECTED/RELOCATED
PROPOSED TEMPORARY CONSTRUCTION FENCE
AREA OF BRUSH & SMALL TREES
APPROXIMATE LOCATION FOR SHEET PILE
TEMPORARY ACCESS ROAD
EXISTING FENCE TO BE REMOVED
GRASSED AREA
APPROXIMATE TOP OF BASIN
AREA WITH TOTAL PCBs >50 mg/kg
ACCESS ROAD
CAMPUS
TEST PIT 1
TEST PIT 2
REMAINING DEBRIS AREA
STEEL BOLLARDS
WOODED AREA
UNNAMED STREAM
81' ROAD
MODIFIED
FIGURE 6
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN
SOIL EXCAVATION AREAS
OCTOBER, 2018
SCALE: 1" = 15'
Weston & Sampson



Total PCB Concentrations <1 mg/kg

Total PCB Concentrations >1 mg/kg and <10 mg/kg

Total PCB Concentrations >10 mg/kg and <50 mg/kg

Total PCB Concentrations >50 mg/kg

Prepack Monitoring Well Location

Note: PCB Concentration represented is maximum concentration determined for any sample from the soil boring.

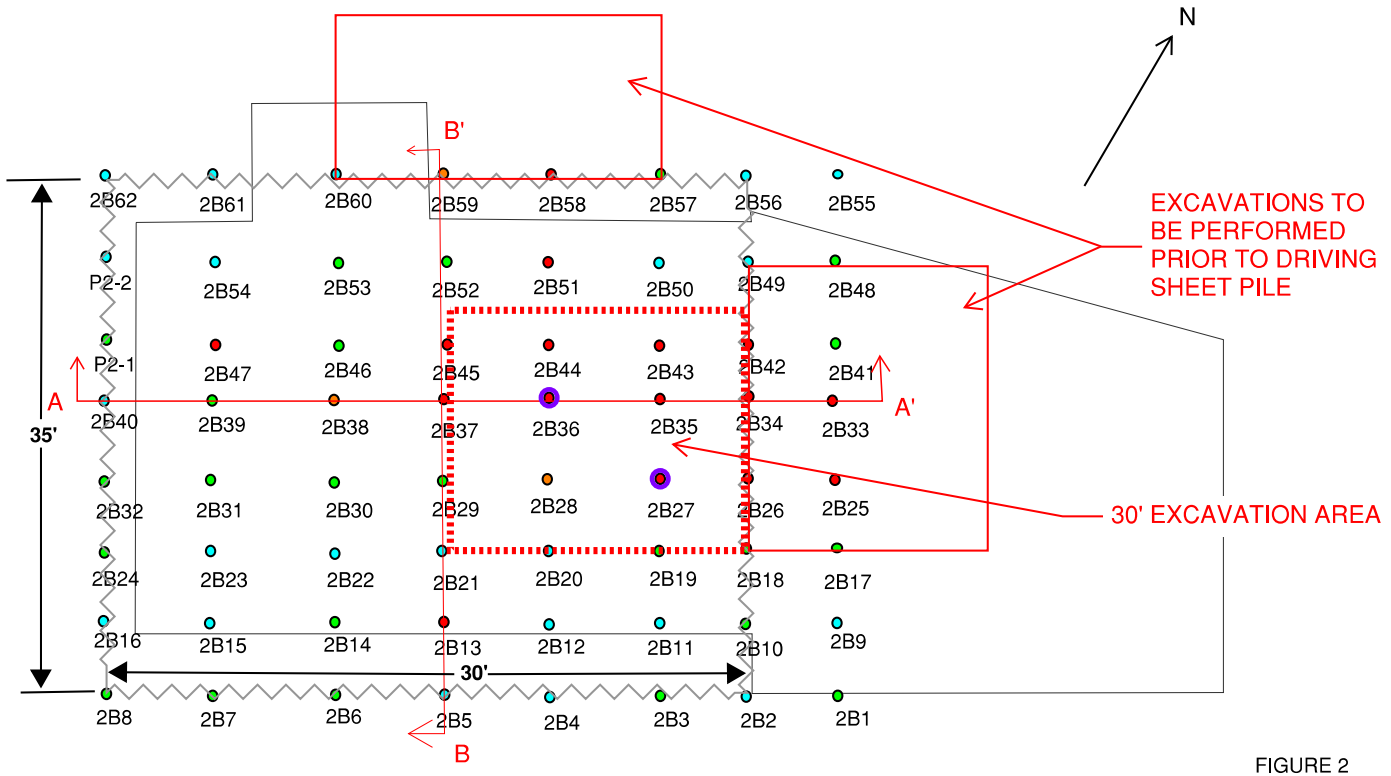
FIGURE 1

EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CONNECTICUT

SOIL BORING LOCATIONS

OCTOBER 2020 SCALE: NTS

Weston & Sampson



Total PCB Concentrations <1 mg/kg
Total PCB Concentrations >1 mg/kg and <10 mg/kg
Total PCB Concentrations >10 mg/kg and <50 mg/kg
Total PCB Concentrations >50 mg/kg
Boring Location where Deepest Sample >10 mg/kg
Proposed Sheet Pile Location
Cross-Section Location

Note: PCB Concentration represented is maximum concentration determined for any sample from the soil boring

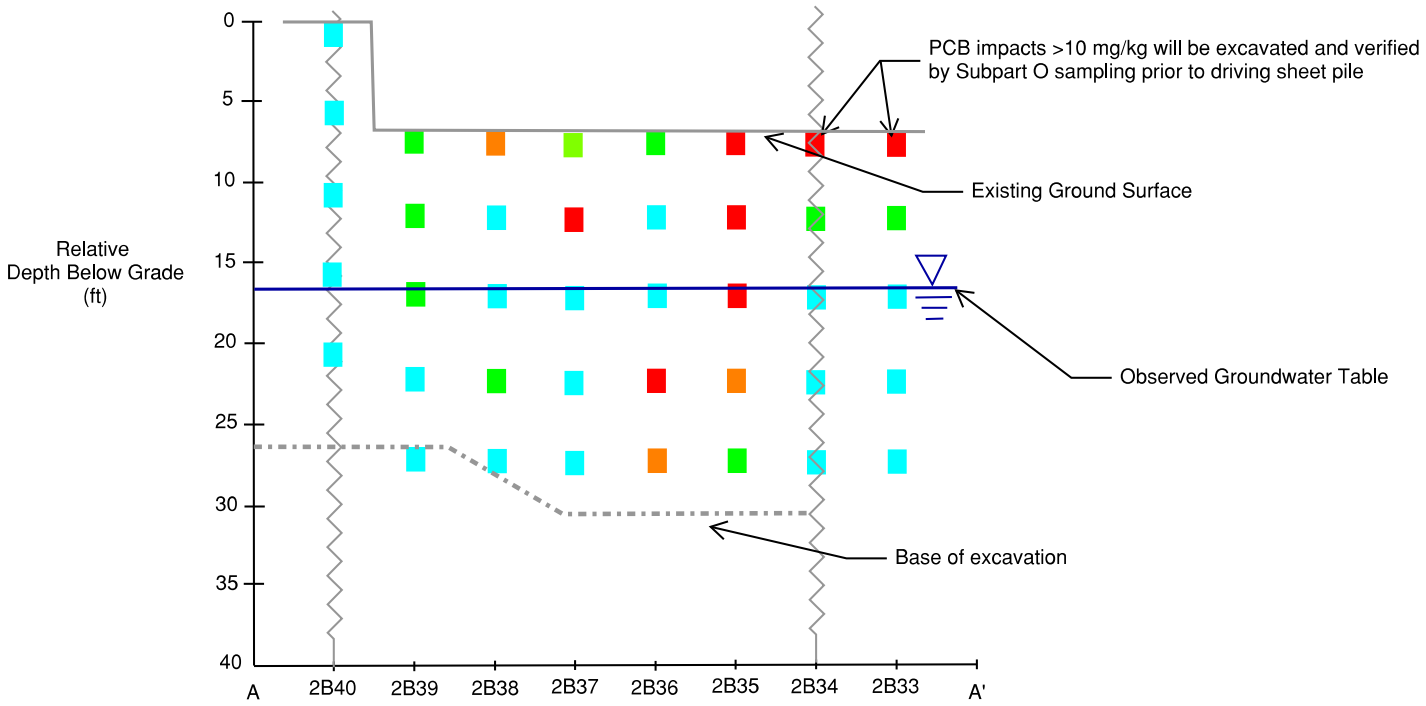
FIGURE 2

EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CONNECTICUT

PROPOSED SHEET PILE AND CROSS-SECTION LOCATIONS

OCTOBER 2020 SCALE: NTS

Weston & Sampson



Total PCB Concentrations <1 mg/kg

Total PCB Concentrations >1 mg/kg and <10 mg/kg

Total PCB Concentrations >10 mg/kg and <50 mg/kg

Total PCB Concentrations >50 mg/kg

Proposed Sheet Pile Location

Note: Ground surface at boring 2B62 assigned an elevation of 0 feet. Relative depth below ground surface is depth below this elevation.

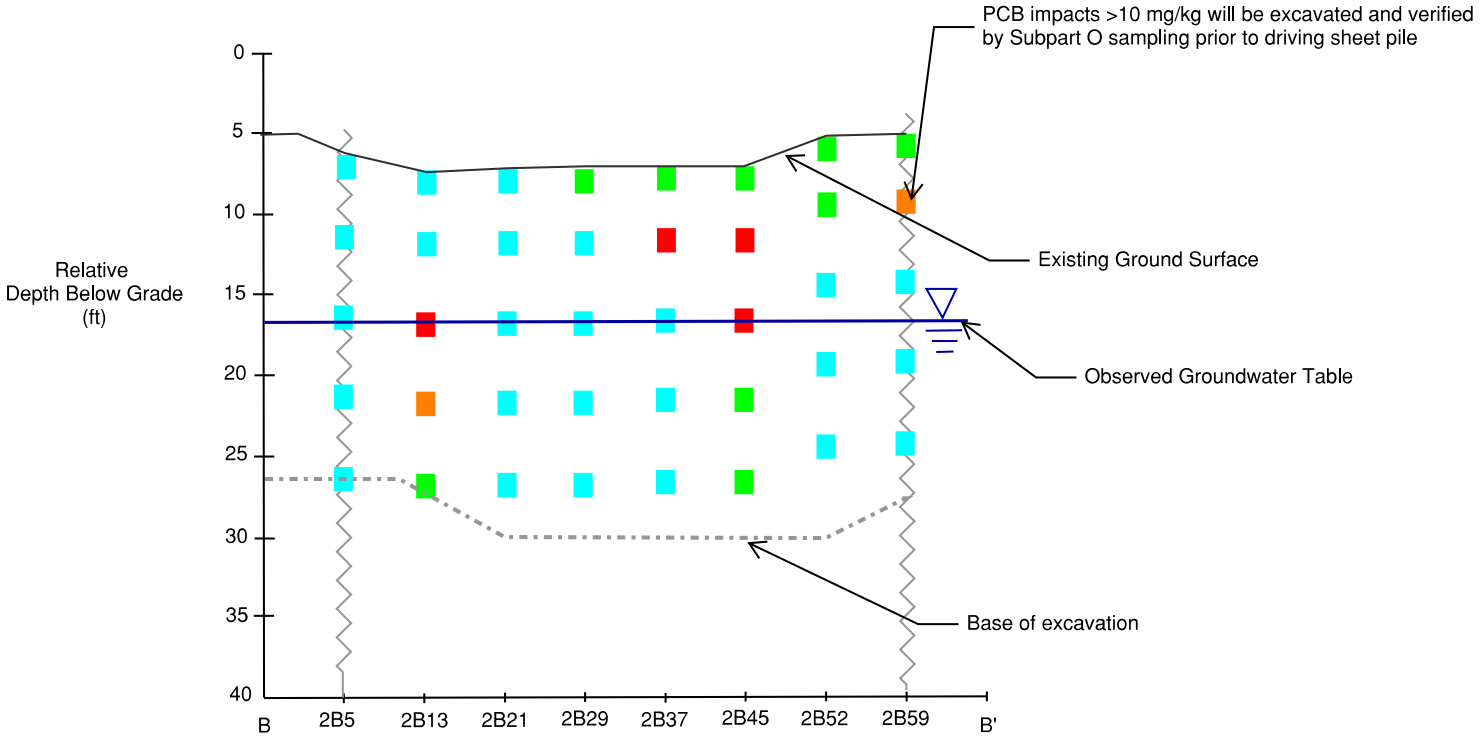
FIGURE 3

EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CONNECTICUT

CROSS-SECTION A-A'

OCTOBER 2020 SCALE: NTS

Weston & Sampson



Total PCB Concentrations <1 mg/kg

Total PCB Concentrations >1 mg/kg and <10 mg/kg

Total PCB Concentrations >10 mg/kg and <50 mg/kg

Total PCB Concentrations >50 mg/kg

Proposed Sheet Pile Location

Note: Ground surface at boring 2B62 assigned an elevation of 0 feet. Relative depth below ground surface is depth below this elevation.

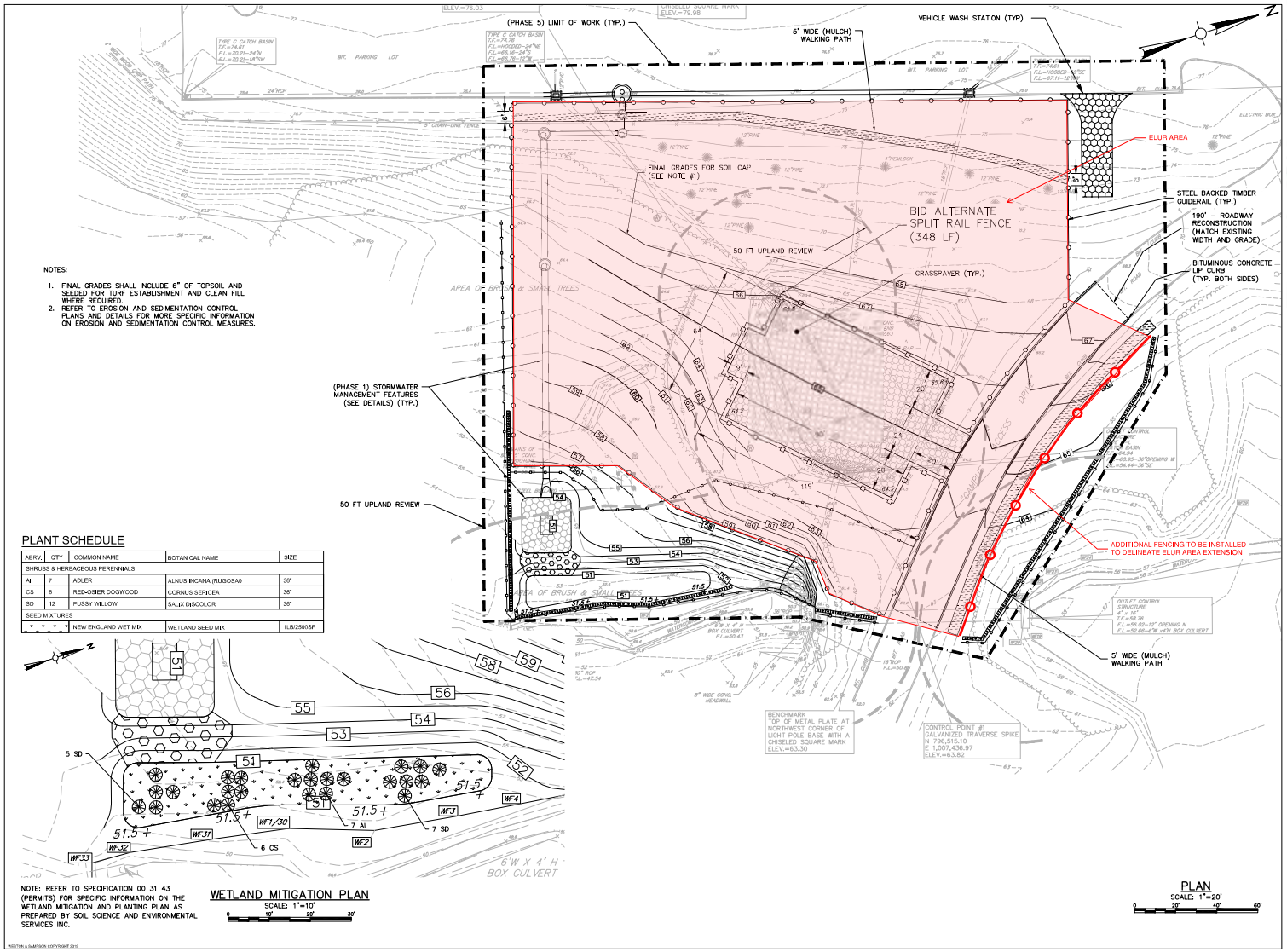
FIGURE 4

EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CONNECTICUT

CROSS-SECTION B-B'

OCTOBER 2020 SCALE: NTS

Weston & Sampson



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BERLIN CAMPUS
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Consultants:

Seal:

Revisions:

Rev	Date	Description

Issued For: BIDDING

NORTH

Date: SEPTEMBER 11, 2019
Drawn By: BMH
Reviewed By: JSP
Approved By: DCH
W&S Project No: 2160758

Drawing Title:
PHASE V - CAPPING & WETLANDS MITIGATION PLAN

Sheet Number:
C-7

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B1					2B2					2B3					2B4				
Sample ID	2B1 (0-0.5)	2B1 (4.5-5)	2B1 (9.5-10)	2B1 (14.5-15)	2B1 (19.5-20)	2B2 (0-0.5)	2B2 (4.5-5)	2B2 (9.5-10)	2B2 (14.5-15)	2B2 (19.5-20)	2B3 (0-0.5)	2B3 (4.5-5)	2B3 (9.5-10)	2B3 (14.5-15)	2B3 (19.5-20)	2B4 (0-0.5)	2B4 (4.5-5)	2B4 (9.5-10)	2B4 (14.5-15)	2B4 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	4-4.5	8.5-9	13.4-14	18.5-19	23-5-24	4-4.5	8.5-9	13.4-14	18.5-19	23-5-24	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26
Aroclor 1248	ND <0.370	ND <0.370	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	ND <0.400	ND <0.420	ND <0.410	ND <0.380	ND <0.400	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430
Aroclor 1254	ND <0.370	ND <0.370	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	ND <0.400	ND <0.420	ND <0.410	ND <0.380	ND <0.400	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430
Aroclor 1260	ND <0.370	**2.4**	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	**1.1**	ND <0.420	ND <0.410	ND <0.380	**1.0**	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430
Total PCBs (mg/kg)	ND <0.370	**2.4**	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	**1.1**	ND <0.420	ND <0.410	ND <0.380	**1.0**	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430

Soil Boring Location	2B5					2B6					2B7					2B8						
Sample ID	2B5 (0-0.5)	2B5 (4.5-5)	2B5 (9.5-10)	2B5 (14.5-15)	2B5 (19.5-20)	2B6 (0-0.5)	2B6 (4.5-5)	2B6 (9.5-10)	2B6 (14.5-15)	2B6 (19.5-20)	2B7 (0-0.5)	2B7 (4.5-5)	2B7 (9.5-10)	2B7 (14.5-15)	2B7 (19.5-20)	2B8 (0-0.5)	2B8 (4.5-5)	2B8 (9.5-10)	2B8 (14.5-15)	2B8 (19.5-20)	2B8 (24.5-25)	2B8 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <0.400	ND <0.430	ND <0.400	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	ND <2.2	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	ND <0.380	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380
Aroclor 1254	ND <0.400	ND <0.430	ND <0.400	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	ND <2.2	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	ND <0.380	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380
Aroclor 1260	ND <0.400	ND <0.430	**0.48**	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	**9.1**	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	**0.89**	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380
Total PCBs (mg/kg)	ND <0.400	ND <0.430	**0.48**	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	**9.1**	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	**0.89**	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380

Soil Boring Location	2B9					2B10					2B11					2B12				
Sample ID	2B9 (0-0.5)	2B9 (4.5-5)	2B9 (9.5-10)	2B9 (14.5-15)	2B9 (19.5-20)	2B10 (0-0.5)	2B10 (4.5-5)	2B10 (9.5-10)	2B10 (14.5-15)	2B10 (19.5-20)	2B11 (0-0.5)	2B11 (4.5-5)	2B11 (9.5-10)	2B11 (14.5-15)	2B11 (19.5-20)	2B12 (0-0.5)	2B12 (4.5-5)	2B12 (9.5-10)	2B12 (14.5-15)	2B12 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.400	ND <0.410	ND <0.400	ND <0.400	ND <0.380	ND <0.360	ND <0.430	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	ND <0.370	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390
Aroclor 1254	ND <0.400	ND <0.410	ND <0.400	ND <0.400	ND <0.380	ND <0.360	ND <0.430	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	ND <0.370	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390
Aroclor 1260	ND <0.400	ND <0.410	**0.66**	ND <0.400	ND <0.380	ND <0.360	**1.1**	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	**0.44**	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390
Total PCBs (mg/kg)	ND <0.400	ND <0.410	**0.66**	ND <0.400	ND <0.380	ND <0.360	**1.1**	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	**0.44**	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B13					2B14					2B15					2B16					
Sample ID	2B13 (0-0.5)	2B13(4.5-5)	2B13 (9.5-10)	2B13 (14.5-15)	2B13 (19.5-20)	2B14 (0-0.5)	2B14 (4.5-5)	2B14 (9.5-10)	2B14 (14.5-15)	2B14 (19.5-20)	2B15 (0-0.5)	2B15 (4.5-5)	2B15 (9.5-10)	2B15 (14.5-15)	2B15 (19.5-20)	2B16 (0-0.5)	2B16 (4.5-5)	2B16 (9.5-10)	2B16 (14.5-15)	2B16 (19.5-20)	2B16 (22.5-23)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	22.5-23
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	22.5-23
Aroclor 1248	ND <0.400	ND <0.440	ND <38	ND <3.9	ND <0.370	ND <0.390	ND <0.420	ND <0.370	ND <0.390	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	ND <0.360	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380
Aroclor 1254	ND <0.400	ND <0.440	ND <38	ND <3.9	ND <0.370	ND <0.390	ND <0.420	ND <0.370	ND <0.390	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	ND <0.360	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380
Aroclor 1260	ND <0.400	0.59	270	28	1.1	1.2	ND <0.420	0.96	0.66	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	0.76	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380
Total PCBs (mg/kg)	ND <0.400	0.59	270	28	1.1	1.2	ND <0.420	0.96	0.66	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	0.76	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380

Soil Boring Location	2B17					2B18					2B19					2B20				
Sample ID	2B17 (0-0.5)	2B17 (4.5-5)	2B17 (9.5-10)	2B17 (14.5-15)	2B17 (19.5-20)	2B18 (0-0.5)	2B18 (4.5-5)	2B18 (9.5-10)	2B18 (14.5-15)	2B18 (19.5-20)	2B19 (0-0.5)	2B19 (4.5-5)	2B19 (9.5-10)	2B19 (14.5-15)	2B19 (19.5-20)	2B20 (0-0.5)	2B20 (4.5-5)	2B20 (9.5-10)	2B20 (14.5-15)	2B20 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.380	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <0.360	ND <0.370	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.470	ND <0.390	ND <0.400	ND <0.410	ND <0.370	ND <0.420	ND <0.380	ND <0.390
Aroclor 1254	ND <0.380	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <0.360	ND <0.370	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.470	ND <0.390	ND <0.400	ND <0.410	ND <0.370	ND <0.420	ND <0.380	ND <0.390
Aroclor 1260	1.1	ND <0.400	ND <0.410	ND <0.430	ND <0.390	0.82	ND <0.370	ND <0.400	3.0	ND <0.380	3.7	ND <0.380	ND <0.470	0.5	1.9	0.57	ND <0.370	ND <0.420	ND <0.380	ND <0.390
Total PCBs (mg/kg)	1.1	ND <0.400	ND <0.410	ND <0.430	ND <0.390	0.82	ND <0.370	ND <0.400	3.0	ND <0.380	3.7	ND <0.380	ND <0.470	0.5	1.9	0.57	ND <0.370	ND <0.420	ND <0.380	ND <0.390

Soil Boring Location	2B21					2B22					2B23					2B24					
Sample ID	2B21 (0-0.5)	2B21 (4.5-5)	2B21 (9.5-10)	2B21 (14.5-15)	2B21 (19.5-20)	2B22 (0-0.5)	2B22 (4.5-5)	2B22 (9.5-10)	2B22 (14.5-15)	2B22 (19.5-20)	2B23 (0-0.5)	2B23 (4.5-5)	2B23 (9.5-10)	2B23 (14.5-15)	2B23 (19.5-20)	2B24 (0-0.5)	2B24 (4.5-5)	2B24 (9.5-10)	2B24 (14.5-15)	2B24 (19.5-20)	2B24 (24.5-25)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-5
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-5
Aroclor 1248	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.410	ND <0.390	ND <0.380	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.350
Aroclor 1254	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.410	ND <0.390	0.64	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.350
Aroclor 1260	ND <0.400	ND <0.380	ND <0.370	ND <0.390	0.75	ND <0.390	ND <0.380	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	0.53	ND <0.400	ND <0.390	ND <0.380	ND <0.380	4.4	ND <0.380	ND <0.380	ND <0.350
Total PCBs (mg/kg)	ND <0.400	ND <0.380	ND <0.370	ND <0.390	0.75	ND <0.390	0.64	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	0.53	ND <0.400	ND <0.390	ND <0.380	ND <0.380	4.4	ND <0.380	ND <0.380	ND <0.350

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B25					2B26					2B27					2B28				
Sample ID	2B25 (0-0.5)	2B25 (4.5-5)	2B25 (9.5-10)	2B25 (14.5-15)		2B26 (0-0.5)	2B26 (4.5-5)	2B26 (9.5-10)	2B26 (14.5-15)	2B26 (19.5-20)	2B27 (0-0.5)	2B27 (4.5-5)	2B27 (9.5-10)	2B27 (14.5-15)	2B27 (19.5-20)	2B28 (0-0.5)	2B28 (4.5-5)	2B28 (9.5-10)	2B28 (14.5-15)	2B28 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15		0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22		7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.380	ND <37	ND <0.410	ND <0.360		ND <0.390	ND <19	ND <0.430	ND <0.430	ND <0.400	ND <3.8	ND <40	ND <0.410	ND <0.390	ND <9.50	ND <0.390	ND <3.8	ND <0.400	ND <0.500	ND <0.400
Aroclor 1254	ND <0.380	ND <37	ND <0.410	ND <0.360		ND <0.390	ND <19	ND <0.430	ND <0.430	ND <0.400	ND <3.8	ND <40	ND <0.410	ND <0.390	ND <9.50	ND <0.390	ND <3.8	ND <0.400	ND <0.500	ND <0.400
Aroclor 1260	2.0	280	ND <0.410	0.47		3.0	75	0.92	ND <0.430	2.2	1.5	430	ND <0.410	ND <0.390	42	0.69	38	ND <0.400	ND <0.500	ND <0.400
Total PCBs (mg/kg)	2.0	280	ND <0.410	0.47		3.0	75	0.92	ND <0.430	2.2	1.5	430	ND <0.410	ND <0.390	42	0.69	38	ND <0.400	ND <0.500	ND <0.400

Soil Boring Location	2B29					2B30					2B31					2B32						
Sample ID	2B29 (0-0.5)	2B29 (4.5-5)	2B29 (9.5-10)	2B29 (14.5-15)	2B29 (19.5-20)	2B30 (0-0.5)	2B30 (4.5-5)	2B30 (9.5-10)	2B30 (14.5-15)	2B30 (19.5-20)	2B31 (0-0.5)	2B31 (4.5-5)	2B31	2B31 (14.5-15)	2B31 (19.5-20)	2B32 (0-0.5)	2B32 (4.5-5)	2B32 (9.5-10)	2B32 (14.5-15)	2B32 (19.5-20)	2B32 (24.5-25)	2B32 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <1.90	ND <0.360	ND <0.460	ND <0.380	ND <0.390	ND <1.8	ND <0.380	ND <0.400	ND <0.400	ND <0.210	ND <0.380	ND <0.390	ND <0.380	ND <0.390	ND <0.380	ND <0.360	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430
Aroclor 1254	*	ND <0.360	ND <0.460	ND <0.380	ND <0.390	*	ND <0.380	ND <0.400	ND <0.400	ND <0.210	*	ND <0.390	ND <0.380	ND <0.390	ND <0.380	ND <0.360	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430
Aroclor 1260	7.0	ND <0.360	ND <0.460	ND <0.380	ND <0.390	9.7	0.88	ND <0.400	ND <0.400	0.44	1.1	ND <0.390	ND <0.380	ND <0.390	ND <0.380	2.7	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430
Total PCBs (mg/kg)	7.0	ND <0.360	ND <0.460	ND <0.380	ND <0.390	9.7	0.88	ND <0.400	ND <0.400	0.44	1.1	ND <0.390	ND <0.380	ND <0.390	ND <0.380	2.7	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430

Soil Boring Location	2B33					2B34					2B35					2B36				
Sample ID	2B33 (0-0.5)	2B33 (4.5-5)	2B33 (9.5-10)	2B33 (14.5-15)	2B33 (19.5-20)	2B34 (0-0.5)	2B34 (4.5-5)	2B34 (9.5-10)	2B34 (14.5-15)	2B34 (19.5-20)	2B35 (0-0.5)	2B35 (4.5-5)	2B35 (9.5-10)	2B35 (14.5-15)	2B35 (19.5-20)	2B3 (0-0.5)	2B36 (4.5-5)	2B36 (9.5-10)	2B36 (14.5-15)	2B36 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <18	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <190	ND <0.420	ND <0.410	ND <0.410	ND <0.370	ND <3,900	ND <43	ND <380	ND <2	ND <1.9	ND <1.8	ND <0.420	ND <0.450	ND <380	ND <4.2
Aroclor 1254	ND <18	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <190	ND <0.420	ND <0.410	ND <0.410	ND <0.370	ND <3,900	ND <43	ND <380	ND <2	ND <1.9	ND <1.8	ND <0.420	ND <0.450	ND <380	ND <4.2
Aroclor 1260	80	3.2	0.94	ND <0.430	0.81	1,600	1.4	0.74	0.47	0.56	6,700	500	2,700	11	3.7	3.0	ND <0.420	ND <0.450	1,600	29
Total PCBs (mg/kg)	80	3.2	0.94	ND <0.430	0.81	1,600	1.4	0.74	0.47	0.56	6,700	500	2,700	11	3.7	3.0	ND <0.420	ND <0.450	1,600	29

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B37					2B38					2B39					2B40						
Sample ID	2B37 (0-0.5)	2B37 (4.5-5)	2B37 (9.5-10)	2B37 (14.5-15)	2B37 (19.5-20)	2B38 (0-0.5)	2B38 (4.5-5)	2B38 (9.5-10)	2B38 (14.5-15)	2B38 (19.5-20)	2B39 (0-0.5)	2B39 (4.5-5)	2B39 (9.5-10)	2B39 (14.5-15)	2B39 (19.5-20)	2B40 (0-0.5)	2B40 (4.5-5)	2B40 (9.5-10)	2B40 (14.5-15)	2B40 (19.5-20)	2B40 (24.5-25)	2B40 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <1.8	ND<38	ND <0.410	ND <0.390	ND <0.380	ND <1.8	ND <0.350	ND <0.420	ND <0.450	ND <400	ND <1.8	ND <0.370	ND <0.400	ND <0.370	ND <0.380	ND <0.370	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.390	ND <0.370
Aroclor 1254	ND <1.8	ND<38	ND <0.410	ND <0.390	ND <0.380	ND <1.8	ND <0.350	ND <0.420	ND <0.450	ND <400	ND <1.8	*	ND <0.400	ND <0.370	ND <0.380	ND <0.370	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.390	ND <0.370
Aroclor 1260	**4.9**	**420**	**0.85**	**0.91**	**0.91**	**19**	ND <0.350	**0.77**	**1.7**	ND <400	**5.4**	**2.5**	**1.7**	ND <0.370	ND <0.380	**0.51**	ND <0.400	ND <0.380	**0.37**	ND <0.390	ND <0.390	ND <0.370
Total PCBs (mg/kg)	**4.9**	**420**	**0.85**	**0.91**	**0.91**	**19**	ND <0.350	**0.77**	**1.7**	ND<400	**5.4**	**2.5**	**1.7**	ND <0.370	ND <0.380	**0.51**	ND <0.400	ND <0.380	**0.37**	ND <0.390	ND <0.390	ND <0.370

Soil Boring Location	2B41					2B42					2B43					2B44				
Sample ID	2B41 (0-0.5)	2B41 (4.5-5)	2B41 (9.5-10)	2B41 (14.5-15)	2B41 (19.5-20)	2B42 (0-0.5)	2B42 (4.5-5)	2B42 (9.5-10)	2B42 (14.5-15)	2B42 (17.5-18)	2B43 (0-0.5)	2B43 (4.5-5)	2B43 (9.5-10)	2B43 (14.5-15)	2B43 (19.5-20)	2B44 (0-0.5)	2B44 (4.5-5)	2B44 (9.5-10)	2B44 (14.5-15)	2B44 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	17.5-18	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.370	ND <0.410	ND <0.380	ND <0.380	ND <0.380	ND <39	ND <1.8	ND <0.370	ND <0.400	ND <0.370	ND <1,900	ND <1,800	ND <0.380	ND <0.390	ND <0.370	ND <1,800	ND < 1,900	ND <0.380	ND <0.380	ND <1.9
Aroclor 1254	ND <0.370	ND < .410	ND <0.380	ND <0.380	ND <0.380	ND <39	ND <1.8	ND <0.370	ND <0.400	ND <0.370	ND <1,900	ND <1,800	ND <0.380	ND <0.390	ND <0.370	ND <1,800	ND <1,900	ND <0.380	ND <0.380	ND <1.9
Aroclor 1260	**2.4**	ND <0.410	ND <0.380	ND <0.380	ND <0.380	**140**	**6.7**	ND <0.370	**1.0**	ND <0.370	**4,900**	**5,600**	ND <0.380	0.96	**1.8**	**4.0**	**6,800**	**0.55**	**0.67**	**4.5**
Total PCBs (mg/kg)	**2.4**	ND <0.410	ND <0.380	ND <0.380	ND <0.380	**140**	**6.7**	ND <0.370	**1.0**	ND <0.370	**4,900**	**5,600**	ND <0.380	0.96	**1.8**	**4.0**	**6,800**	**0.55**	**0.67**	**4.5**

Soil Boring Location	2B45					2B46					2B47					P2-1				
Sample ID	2B45 (0-0.5)	2B45 (4.5-5)	2B45 (9.5-10)	2B45 (14.5-15)	2B45 (19.5-20)	2B46 (0-0.5)	2B46 (4.5-5)	2B46 (9.5-10)	2B46 (14.5-15)	2B46 (19.5-20)	2B47 (0-0.5)	2B47 (4.5-5)	2B47 (9.5-10)	2B47 (14.5-15)	2B47 (19.5-20)	P2-1 (4.5-5)	P2-1 (9.5-10)	P2-1 (14.5-15)	P2-1 (4.5-5)	P2-1 (4.5-5)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Aroclor 1248	ND <0.350	ND <37	ND <20	ND <0.400	ND <0.390	ND <1.8	ND <1.8	ND <0.380	ND <0.380	ND <0.390	ND <0.360	ND <0.400	ND <0.380	ND <380	ND <0.410	ND <0.370	ND <0.390	ND <0.360	ND <0.390	ND <0.390
Aroclor 1254	*	ND <37	ND <20	ND <0.400	ND <0.390	ND <1.8	ND <1.8	ND <0.380	ND <0.380	ND <0.390	ND <0.360	ND <0.400	ND <0.380	ND <380	ND <0.410	ND <0.370	ND <0.390	ND <0.360	ND <0.390	ND <0.390
Aroclor 1260	**3.9**	**84**	**61**	**3.2**	**1.1**	**4.9**	**5.3**	**0.69**	ND <0.380	**1.3**	ND <0.360	ND <0.400	**3.5**	**510**	ND <0.410	**1.2**	ND <0.390	ND <0.360	ND <0.390	ND <0.390
Total PCBs (mg/kg)	**3.9**	**84**	**61**	**3.2**	**1.1**	**4.9**	**5.3**	**0.69**	ND <0.380	**1.3**	ND <0.360	ND <0.400	**3.5**	**510**	ND <0.410	**1.2**	ND <0.390	ND <0.360	ND <0.390	ND <0.390

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B48					2B49					2B50					2B51				
Sample ID	2B48 (0-0.5)	2B48 (4.5-5)	2B48 (9.5-10)	2B48 (14.5-15)	2B48 (19.5-20)	2B49 (0-0.5)	2B49 (4.5-5)	2B49 (9.5-10)	2B49 (14.5-15)	2B49 (19.5-20)	2B50 (0-0.5)	2B50 (4.5-5)	2B50 (9.5-10)	2B50 (14.5-15)	2B50 (19.5-20)	2B51 (0-0.5)	2B51 (4.5-5)	2B1 (9.5-10)	2B51 (14.5-15)	2B51 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25
Aroclor 1248	ND <0.390	ND <1.9	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	ND <2.0	ND <190	ND <0.400	ND <0.410	ND <0.370
Aroclor 1254	ND <0.390	ND <1.9	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	ND <2.0	ND <190	ND <0.400	ND <0.410	ND <0.370
Aroclor 1260	ND <0.390	**8.0**	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	**8.9**	**530**	ND <0.400	ND <0.410	**1.0**
Total PCBs (mg/kg)	ND <0.390	**8.0**	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	**8.9**	**530**	ND <0.400	ND <0.410	**1.0**

Soil Boring Location	2B52					2B53					2B54					P2-2				
Sample ID	2B52 (0-0.5)	2B52 (4.5-5)	2B52 (9.5-10)	2B52 (14.5-15)	2B52 (19.5-20)	2B53 (0-0.5)	2B53 (4.5-5)	2B53 (9.5-10)	2B53 (14.5-15)	2B53 (19.5-20)	2B54 (0-0.5)	2B54 (4.5-5)	2B54 (9.5-10)	2B54 (14.5-15)	2B54 (19.5-20)	P2-2 (4.5-5.0)	P2-2 (9.5-10.0)	P2-2 (14.5-15)	P2-2 (19.5-20)	P2-2 (23.5-24)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Aroclor 1248	ND <0.360	ND <0.360	ND <0.380	ND <0.390	ND <0.380	ND <1.9	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	ND <0.380	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390
Aroclor 1254	ND <0.360	ND <0.360	ND <0.380	ND <0.390	ND <0.380	ND <1.9	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	ND <0.380	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390
Aroclor 1260	**1.0**	**1.9**	ND <0.380	ND <0.390	**0.57**	**4.9**	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	**0.39**	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390
Total PCBs (mg/kg)	**1.0**	**1.9**	ND <0.380	ND <0.390	**0.57**	**4.9**	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	**0.39**	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390

Soil Boring Location	2B55					2B56					2B57					2B58				
Sample ID	2B55 (0-0.5)	2B55 (4.5-5)	2B55 (9.5-10)	2B55 (14.5-15)	2B55 (19.5-20)	2B56 (0-0.5)	2B56 (4.5-5)	2B56 (9.5-10)	2B56 (14.5-15)	2B56 (19.5-20)	2B57 (0-0.5)	2B57 (4.5-5)	2B57 (9.5-10)	2B57 (14.5-15)	2B57 (19.5-20)	2B58 (0-0.5)	2B58 (4.5-5)	2B58 (9.5-10)	2B58 (14.5-15)	2B58 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25
Aroclor 1248	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	ND <0.360	ND <0.370	ND <0.380	ND <0.390	ND <0.380	ND <40	ND <0.380	ND <0.390	ND <0.380	ND <0.400
Aroclor 1254	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	ND <0.360	ND <0.370	ND <0.380	ND <0.390	ND <0.380	ND <40	ND <0.380	ND <0.390	ND <0.380	ND <0.400
Aroclor 1260	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	**2.8**	ND <0.370	ND <0.380	ND <0.390	ND <0.380	**180**	**0.43**	ND <0.390	ND <0.380	ND <0.400
Total PCBs (mg/kg)	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	**2.8**	ND <0.370	ND <0.380	ND <0.390	ND <0.380	**180**	**0.43**	ND <0.390	ND <0.380	ND <0.400

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B59					2B60					2B61					2B62						
Sample ID	2B59 (0-0.5)	2B59 (4.5-5)	2B59 (9.5-10)	2B59 (14.5-15)	2B59 (19.5-20)	2B60 (0-0.5)	2B60 (4.5-5)	2B60 (9.5-10)	2B60 (14.5-15)	2B60 (19.5-20)	2B61 (0-0.5)	2B61 (4.5-5)	2B61 (9.5-10)	2B61 (14.5-15)	2B61 (19.5-20)	2B62 (0-0.5)	2B62 (4.5-5)	2B62 (9.5-10)	2B62 (14.5-15)	2B62 (19.5-20)	2B62 (24.5-25)	2B62 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <0.370	ND <18	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	ND <0.370	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390
Aroclor 1254	ND <0.370	ND <18	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	ND <0.370	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390
Aroclor 1260	**1.1**	**48**	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	**0.76**	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390
Total PCBs (mg/kg)	**1.1**	**48**	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	**0.76**	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390

Notes:
Only those Aroclors detected are reported. All other Aroclor results are non-detect.
Total PCBs is sum of Aroclor concentrations determined.
Depth Below Existing Grade - The measured depth below grade at the sampling point
Relative Depth Below Grade - Depth below grade relative to reference point.

- Total PCB Concentration ≥50 mg/kg
- Total PCB Concentration ≥10 mg/kg
- Total PCB Concentration ≥1 mg/kg
- PCBs Detected at Concentration <1 mg/kg

Table 2
Groundwater Sample Analytical Results Summary
Eversource Energy
Berlin Settling Basin
Berling, Connecticut

Station Name	Units	SWPC	MW-PH2
Sample Date			10/6/2020
Parent Sample			
VOAs (SW-846 8260C)			
1,2,3-Trichlorobenzene	ug/L	-	**45**
1,2,4-Trichlorbenzene	ug/L	9.6	**19**
1,2-Dichlorbenzene	ug/L	170,000	**1.6**
Benzene	ug/L	710	**1.9**
Chlorobenzene	ug/L	420,000	**35**
sec-Butylbenzene	ug/L	10,000	**1.0**
Metals (SW-846 6010D)			
Antimony	ug/L	86,000	ND <5.0
Arsenic	ug/L	4	ND <4.0
Barium	ug/L	2,200	**377**
Beryllium	ug/L	4	ND <1.0
Cadmium	ug/L	6	**2.0**
Chromium	ug/L	110	**2.0**
Copper	ug/L	48	**19**
Lead	ug/L	13	**4.0**
Nickel	ug/L	880	**17**
Selenium	ug/L	50	**12**
Silver	ug/L	12	**4.0**
Thallium	ug/L	63	ND <1.0
Vanadium	ug/L	270	**3.0**
Zinc	ug/L	123	**12**
Metals (SW-846 7471B)			
Mercury	ug/L	0.4	ND <0.20
Semi-VOAs (SW-846 8270D-E)			
2-Methylnaphthalene	ug/L	62	ND <0.51
Acenaphthene	ug/L	150	ND <0.51
Acenaphthylene	ug/L	0.3	ND <0.30
Anthracene	ug/L	1,100,000	ND <0.51
Benzo(a)anthracene	ug/L	0.3	ND <0.050
Benzo(a)pyrene	ug/L	0.3	ND <0.20
Benzo(b)fluoranthene	ug/L	0.3	ND <0.070
Benzo(g,h,i)perylene	ug/L	150	ND <0.48
Benzo(k)fluoranthene	ug/L	0.3	ND <0.20
Chrysene	ug/L	0.54	ND <0.30
Dibenz(a,h)anthracene	ug/L	0.30	ND <0.10
Fluoranthene	ug/L	3,700	ND <0.51
Fluorene	ug/L	140,000	ND <0.51
Indeno(1,2,3-cd)pyrene	ug/L	0.54	ND <0.10
Naphthalene	ug/L	210	ND <0.51
Phenanthrene	ug/L	14	ND <0.060
Pyrene	ug/L	110,000	ND <0.51
PCBs (SW-846 8082A)			
Aroclor-1016	ug/L	-	ND <0.48
Aroclor-1221	ug/L	-	ND <0.48
Aroclor-1232	ug/L	-	ND <0.48
Aroclor-1242	ug/L	-	ND <0.48
Aroclor-1248	ug/L	-	ND <0.48
Aroclor-1254	ug/L	-	**1.0**
Aroclor-1260	ug/L	-	ND <0.48
Aroclor-1262	ug/L	-	ND <0.48
Aroclor-1268	ug/L	-	ND <0.48
Total PCBs	ug/L	0.5	**1.0**
ETPH (CTDEP ETPH)			
CT ETPH	ug/L	250	**290**

Analyte concentration exceeds the standard for:
SWPC

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; rev
2. For those compounds without listed remedial criteria in the RSRs, values from "Recommended Nu
Common Additional Polluting Substances and Certain Alternative Criteria," CT DEEP, September 20,
ug/L = microgram per liter
BOLD = compound detected at that concentration.
ND < # = Below Reporting Limit (reporting limit specified)
-- = Not Applicable
SWPC = Surface Water Protection Criteria
Total PCBs = Sum of detected Aroclors

From: Bartosz, Ryan
Sent: Monday, November 9, 2020 3:30 PM
To: Tisa, Kimberly
Cc: Trahan, Amber (Amber.Trahan@ct.gov); Trombly, Gary; Calvert, Matthew; Beeler, Malcolm
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Kim,

Please see our responses below.

1. Table 2 of the supplement submitted October 22, 2020, shows groundwater exceedances of VOCs and PCBs. However, there is no discussion in the supplemental information concerning how these groundwater exceedances are to be addressed. This clearly is not covered in the EPA Approval. Please provide a discussion on Eversource's proposed plan for groundwater.

Based on the site data and PCB concentrations, it is believed that the area covered in the modification request represents a separate and distinct release area. As such, removal of the soil impacted by this separate release should remove the source for the localized groundwater impacts. Post remediation GW monitoring will be completed to confirm VOCs and PCBs have been removed to concentrations below applicable GW criteria.

2. With respect to the limits of the ELUR, the agencies are concerned that the actual proposed limits shown in the supplemental information is close to the location where > 1 ppm PCB was identified in a sidewall sample. Thus, the agencies request that all sampling locations be GPS'ed to ensure that the limits of the ELUR are accurate.

Eversource will GPS the extent of the excavations and the verification sample results that are to be <1 mg/kg. These data will be used to determine the extent of the ELUR placed on the Site.

3. In the plan approved by EPA, the clean cap to be constructed was a soil cap. Given that PCBs > 1 ppm but < 10 ppm will now remain within the access road, it appears that the clean cap will now include asphalt. This, EPA believes, is a modification from the approved plan, correct? If so, please provide a cross-section showing this change and how the clean cap within the roadway will be constructed and blended with the soil adjacent soil capped areas, and how this proposed asphalt cap will meet the requirements under 40 CFR 761.61(a) as well as the CTDEEP requirements.

Eversource will provide a cross-section showing the capped area extending through the access road that will be reconstructed after remediation has been completed. This cross-section will be provided in a supplemental submittal to EPA and include discussion on how the asphalt cap will meet the requirements under 40 CFR 761.61(a) and as well as CTDEEP requirements.

From: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Sent: Thursday, November 5, 2020 9:09 AM
To: Bartosz, Ryan <BartoszR@wseinc.com>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary

<Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>; Beeler, Malcolm <BeelerM@wseinc.com>
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Mr. Calvert:

EPA has not received a response to our last email re: the modification. As indicated below, we had no conceptual issues with the proposed modification, but did identify issues related to the modification that require a response.

Thank you.

Kim Tisa

Kimberly N. Tisa | PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1 | 5 Post Office Square, Suite 100 | Boston, MA 02109-3912
☎: 617.918.1527 | 🖷: 617.918.0527 | ✉: tisa.kimberly@epa.gov

From: Tisa, Kimberly
Sent: Saturday, October 31, 2020 6:58 AM
To: Bartosz, Ryan <BartoszR@wseinc.com>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary <Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>; Beeler, Malcolm <BeelerM@wseinc.com>
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Mr. Calvert:

This is in response to your modification request to extend the area of the ELUR at the Berlin Settling Basin due to the PCB concentrations identified at the Site. The proposed modification was submitted in according with Condition 16 of the June 27, 2019 EPA PCB Cleanup and Risk-Based Disposal Approval under 40 CFR 761.61(a) and (c).

EPA has reviewed the information provided . Based on this review and our discussion with CTDEEP, extending the ELUR based on the conditions as identified is reasonable and consistent with the approach previously approved for the project. It is also consistent with the cleanup provisions under 40 CFR 761.61(a). In accordance with Condition 16 of the EPA Approval, EPA has no future questions on the proposed modification to extend the ELUR area itself.

However, we do have several other questions/comments which follow:

1. Table 2 of the supplement submitted October 22, 2020, shows groundwater exceedances of VOCs and PCBs. However, there is no discussion in the supplemental information concerning how these groundwater exceedances are to be addressed. This clearly is not covered in the EPA Approval. Please provide a discussion on Eversource's proposed plan for groundwater.

2. With respect to the limits of the ELUR, the agencies are concerned that the actual proposed limits shown in the supplemental information is close to the location where > 1 ppm PCB was identified in a sidewall sample. Thus, the agencies request that all sampling locations be GPS'ed to ensure that the limits of the ELUR are accurate.

3. In the plan approved by EPA, the clean cap to be constructed was a soil cap. Given that PCBs > 1 ppm but < 10 ppm will now remain within the access road, it appears that the clean cap will now include asphalt. This, EPA believes, is a modification from the approved plan, correct? If so, please provide a cross-section showing this change and how the clean cap within the roadway will be constructed and blended with the soil adjacent soil capped areas, and how this proposed asphalt cap will meet the requirements under 40 CFR 761.61(a) as well as the CTDEEP requirements.

Should you have any questions, please feel free to contact me or Gary Trombly (CTDEEP) @ 860.424.3486.

Kim Tisa

Kimberly N. Tisa | PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1 | 5 Post Office Square, Suite 100 | Boston, MA 02109-3912
☎: 617.918.1527 | 🖷: 617.918.0527 | ✉: tisa.kimberly@epa.gov

From: Bartosz, Ryan <BartoszR@wseinc.com>
Sent: Thursday, October 22, 2020 5:19 PM
To: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary <Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>
Subject: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Kim,

Please see attached supplemental notification and modification request for the Berlin Settling Basin PCB remediation project.

Please let me know if you need anything further.

Thanks,

Ryan S. Bartosz, LEP
SENIOR PROJECT MANAGER
Direct: 860-956-6948
Mobile: 413-883-9691

Weston & Sampson *(We've Moved!)*
712 Brook Street, Suite 103
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

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From: Bartosz, Ryan
Sent: Monday, November 16, 2020 3:36 PM
To: Tisa, Kimberly
Cc: Trahan, Amber (Amber.Trahan@ct.gov); Trombly, Gary; Calvert, Matthew; Beeler, Malcolm
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request
Attachments: Final Conditions Figure with Cross-Section Location.pdf; Final Roadway Cross-Section 11-13-20.pdf

Kim,

The following provides (1) a response to your email from Tuesday 11/10 and (2) a revision of our response from Monday, 11/09

Response to email from Tuesday 11/10

EPA does not believe you have responded to our question on the asphalt cap modification. That is something that has to be requested now and not after the work is completed.

The asphalt cap was not part of the original plan, that I recall. In your current proposed modification, the area where < 10 ppm will remain is in the access road, so it seems that information on the asphalt cap is needed to support the current proposed modification.

If you have some justification for why the cap information is not needed for the current proposed modification (extension of the ELUR area), please so advise and explain why, since the cap is part of the expanded ELUR area.

Two figures are attached to this email. One showing final site conditions with a cross-section marked (Final Conditions Figure with Cross-Section Location) and a second showing a cross-section of the asphalt cap that was not part of the original plan (Final Roadway Cross-Section 11-13-20).

The final conditions figure shows the extended area of the ELUR which extends over the asphalt roadway. It is also noted that data collected during the remediation and construction of the improved stormwater system indicates that the new construction does not need to be included in the ELUR area. This is also noted on the final conditions figure.

The cross-section shows (1) surface completion, (2) excavations depth which will be a minimum of 4 feet and sometimes deeper, and (3) a paving detail showing types of materials to be used and depth of each material. Excavation in the area will be considered complete when:

1) All base samples are <10 mg/kg total PCBs; and
2) Sidewall samples on the northeast side of the excavation are <1 mg/kg to complete delineation of the ELUR area. The extent of the sidewall will be determined in the field using GPS.

Restoration will include:

1) Placing and compacting clean backfill;
2) Completion of final surfaces as turf or asphalt; and
3) Installation of a fence at the surface that will be placed beyond the extent of the final sidewall.

The proposed surface cap as designed complies with the requirements of the CT DEEP RSRs. However, it does not comply with all of the requirements as specified in §761.61(a)(7); however, we are requesting approval of this modification (surface cap as presented) is requested under §761.61(c).

Edits to response email from Monday 11/09

1. Table 2 of the supplement submitted October 22, 2020, shows groundwater exceedances of VOCs and PCBs. However, there is no discussion in the supplemental information concerning how these groundwater exceedances are to be addressed. This clearly is not covered in the EPA Approval. Please provide a discussion on Eversource's proposed plan for groundwater.

Based on the site data and PCB concentrations, it is believed that the area covered in the modification request represents a separate and distinct release area. As such, removal of the soil impacted by this separate release should remove the source for the localized groundwater impacts. Post remediation GW monitoring will be completed to confirm VOCs and PCBs have been removed to concentrations below applicable GW criteria.

2. With respect to the limits of the ELUR, the agencies are concerned that the actual proposed limits shown in the supplemental information is close to the location where > 1 ppm PCB was identified in a sidewall sample. Thus, the agencies request that all sampling locations be GPS'ed to ensure that the limits of the ELUR are accurate.

Eversource will GPS the extent of the excavations and the verification sample results that are to be <1 mg/kg. These data will be used to determine the extent of the ELUR placed on the Site.

3. In the plan approved by EPA, the clean cap to be constructed was a soil cap. Given that PCBs > 1 ppm but < 10 ppm will now remain within the access road, it appears that the clean cap will now include asphalt. This, EPA believes, is a modification from the approved plan, correct? If so, please provide a cross-section showing this change and how the clean cap within the roadway will be constructed and blended with the soil adjacent soil capped areas, and how this proposed asphalt cap will meet the requirements under 40 CFR 761.61(a) as well as the CTDEEP requirements.

A cross-section showing the capped area within the access road is attached.

From: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Sent: Tuesday, November 10, 2020 7:43 AM
To: Bartosz, Ryan <BartoszR@wseinc.com>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary <Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>; Beeler, Malcolm <BeelerM@wseinc.com>
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Ryan:

EPA does not believe you have responded to our question on the asphalt cap modification. That is something that has to be requested now and not after the work is completed.

The asphalt cap was not part of the original plan, that I recall. In your current proposed modification, the area where < 10 ppm will remain is in the access road, so it seems that information on the asphalt cap is needed to support the current proposed modification.

If you have some justification for why the cap information is not needed for the current proposed modification (extension of the ELUR area), please so advise and explain why, since the cap is part of the expanded ELUR area.

Kim Tisa

Kimberly N. Tisa | PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1 | 5 Post Office Square, Suite 100 | Boston, MA 02109-3912
☎: 617.918.1527 | 🖷: 617.918.0527 | ✉: tisa.kimberly@epa.gov

From: Bartosz, Ryan <BartoszR@wseinc.com>
Sent: Monday, November 09, 2020 3:30 PM
To: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary <Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>; Beeler, Malcolm <BeelerM@wseinc.com>
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Kim,

Please see our responses below.

1. Table 2 of the supplement submitted October 22, 2020, shows groundwater exceedances of VOCs and PCBs. However, there is no discussion in the supplemental information concerning how these groundwater exceedances are to be addressed. This clearly is not covered in the EPA Approval. Please provide a discussion on Eversource's proposed plan for groundwater.

Based on the site data and PCB concentrations, it is believed that the area covered in the modification request represents a separate and distinct release area. As such, removal of the soil impacted by this separate release should remove the source for the localized groundwater impacts. Post remediation GW monitoring will be completed to confirm VOCs and PCBs have been removed to concentrations below applicable GW criteria.

2. With respect to the limits of the ELUR, the agencies are concerned that the actual proposed limits shown in the supplemental information is close to the location where > 1 ppm PCB was identified in a sidewall sample. Thus, the agencies request that all sampling locations be GPS'ed to ensure that the limits of the ELUR are accurate.

Eversource will GPS the extent of the excavations and the verification sample results that are to be <1 mg/kg. These data will be used to determine the extent of the ELUR placed on the Site.

3. In the plan approved by EPA, the clean cap to be constructed was a soil cap. Given that PCBs > 1 ppm but < 10 ppm will now remain within the access road, it appears that the clean cap will now include asphalt. This, EPA believes, is a modification from the approved plan, correct? If so, please provide a cross-section showing this change and how the clean cap within the roadway will be constructed and blended with the soil adjacent soil capped areas, and how this proposed asphalt cap will meet the requirements under 40 CFR 761.61(a) as well as the CTDEEP requirements.

Eversource will provide a cross-section showing the capped area extending through the access road that will be reconstructed after remediation has been completed. This cross-section will be provided in a supplemental submittal to EPA and include discussion on how the asphalt cap will meet the requirements under 40 CFR 761.61(a) and as well as CTDEEP requirements.

From: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Sent: Thursday, November 5, 2020 9:09 AM
To: Bartosz, Ryan <BartoszR@wseinc.com>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary <Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>; Beeler, Malcolm <BeelerM@wseinc.com>
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Mr. Calvert:

EPA has not received a response to our last email re: the modification. As indicated below, we had no conceptual issues with the proposed modification, but did identify issues related to the modification that require a response.

Thank you.

Kim Tisa

Kimberly N. Tisa | PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1 | 5 Post Office Square, Suite 100 | Boston, MA 02109-3912
☎: 617.918.1527 | 🖷: 617.918.0527 | ✉: tisa.kimberly@epa.gov

From: Tisa, Kimberly
Sent: Saturday, October 31, 2020 6:58 AM
To: Bartosz, Ryan <BartoszR@wseinc.com>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary <Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>; Beeler, Malcolm <BeelerM@wseinc.com>
Subject: RE: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Mr. Calvert:

This is in response to your modification request to extend the area of the ELUR at the Berlin Settling Basin due to the PCB concentrations identified at the Site. The proposed modification was submitted in according with Condition 16 of the June 27, 2019 EPA PCB Cleanup and Risk-Based Disposal Approval under 40 CFR 761.61(a) and (c).

EPA has reviewed the information provided . Based on this review and our discussion with CTDEEP, extending the ELUR based on the conditions as identified is reasonable and consistent with the approach previously approved for the project. It is also consistent with the cleanup provisions under 40 CFR 761.61(a). In accordance with Condition 16 of the EPA Approval, EPA has no future questions on the proposed modification to extend the ELUR area itself.

However, we do have several other questions/comments which follow:

1. Table 2 of the supplement submitted October 22, 2020, shows groundwater exceedances of VOCs and PCBs. However, there is no discussion in the supplemental information concerning how these groundwater exceedances are to be addressed. This clearly is not covered in the EPA Approval. Please provide a discussion on Eversource's proposed plan for groundwater.

2. With respect to the limits of the ELUR, the agencies are concerned that the actual proposed limits shown in the supplemental information is close to the location where > 1 ppm PCB was identified in a sidewall sample. Thus, the agencies request that all sampling locations be GPS'ed to ensure that the limits of the ELUR are accurate.

3. In the plan approved by EPA, the clean cap to be constructed was a soil cap. Given that PCBs > 1 ppm but < 10 ppm will now remain within the access road, it appears that the clean cap will now include asphalt. This, EPA believes, is a modification from the approved plan, correct? If so, please provide a cross-section showing this change and how the clean cap within the roadway will be constructed and blended with the soil adjacent soil capped areas, and how this proposed asphalt cap will meet the requirements under 40 CFR 761.61(a) as well as the CTDEEP requirements.

Should you have any questions, please feel free to contact me or Gary Trombly (CTDEEP) @ 860.424.3486.

Kim Tisa

Kimberly N. Tisa | PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1 | 5 Post Office Square, Suite 100 | Boston, MA 02109-3912
☎: 617.918.1527 | 🖷: 617.918.0527 | ✉: tisa.kimberly@epa.gov

From: Bartosz, Ryan <BartoszR@wseinc.com>
Sent: Thursday, October 22, 2020 5:19 PM
To: Tisa, Kimberly <Tisa.Kimberly@epa.gov>
Cc: Trahan, Amber (Amber.Trahan@ct.gov) <Amber.Trahan@ct.gov>; Trombly, Gary <Gary.Trombly@ct.gov>; Calvert, Matthew <matthew.calvert@eversource.com>
Subject: Berlin Settling Basin PCB Remediation - Supplemental Notification and Modification Request

Kim,

Please see attached supplemental notification and modification request for the Berlin Settling Basin PCB remediation project.

Please let me know if you need anything further.

Thanks,

Ryan S. Bartosz, LEP
SENIOR PROJECT MANAGER
Direct: 860-956-6948
Mobile: 413-883-9691

Weston & Sampson *(We've Moved!)*
712 Brook Street, Suite 103
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com

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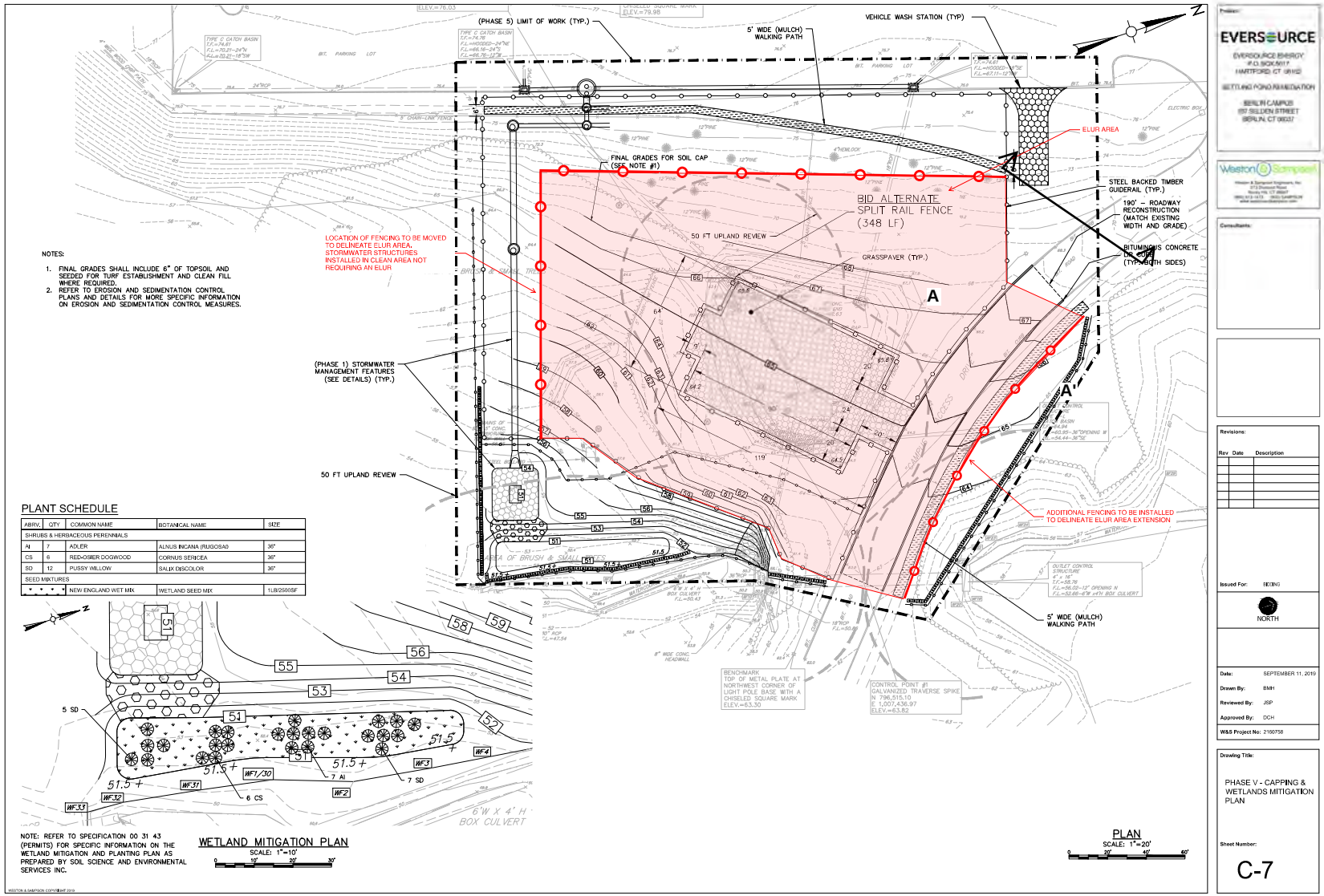
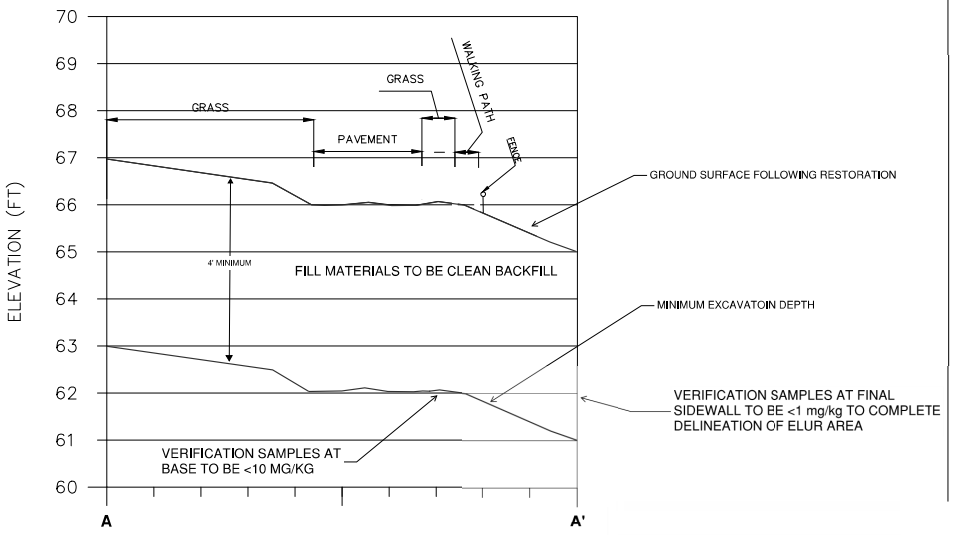

(PHASE 5) LIMIT OF WORK (TYP.)
5' WIDE (MULCH) WALKING PATH
VEHICLE WASH STATION (TYP)
ELUR AREA
FINAL GRADES FOR SOIL CAP (SEE NOTE #1)
BID ALTERNATE
SPLIT RAIL FENCE
(348 LF)
50 FT UPLAND REVIEW
GRASSPAVER (TYP.)
STEEL BACKED TIMBER GUIDERAIL (TYP.)
190' – ROADWAY RECONSTRUCTION (MATCH EXISTING WIDTH AND GRADE)
BITUMINOUS CONCRETE (TYP. BOTH SIDES)
LOCATION OF FENCING TO BE MOVED TO DELINEATE ELUR AREA. STORMWATER STRUCTURES INSTALLED IN CLEAN AREA NOT REQUIRING AN ELUR
(PHASE 1) STORMWATER MANAGEMENT FEATURES (SEE DETAILS) (TYP.)
50 FT UPLAND REVIEW
ADDITIONAL FENCING TO BE INSTALLED TO DELINEATE ELUR AREA EXTENSION
5' WIDE (MULCH) WALKING PATH
A
A'
NOTES:
1. FINAL GRADES SHALL INCLUDE 6" OF TOPSOIL AND SEEDED FOR TURF ESTABLISHMENT AND CLEAN FILL WHERE REQUIRED.
2. REFER TO EROSION AND SEDIMENTATION CONTROL PLANS AND DETAILS FOR MORE SPECIFIC INFORMATION ON EROSION AND SEDIMENTATION CONTROL MEASURES.
PLANT SCHEDULE
ABRV. | QTY | COMMON NAME | BOTANICAL NAME | SIZE
SHRUBS & HERBACEOUS PERENNIALS
AI | 7 | ALDER | ALNUS INCANA (RUGOSA0 | 36"
CS | 6 | RED-OSIER DOGWOOD | CORNUS SERICEA | 36"
SD | 12 | PUSSY WILLOW | SALIX DISCOLOR | 36"
SEED MIXTURES
NEW ENGLAND WET MIX | WETLAND SEED MIX | 1LB/2500SF
5 SD
6 CS
7 AI
7 SD
WF1,/30
WF2
WF3
WF4
WF31
WF32
WF33
6'W X 4' H BOX CULVERT
NOTE: REFER TO SPECIFICATION 00 31 43 (PERMITS) FOR SPECIFIC INFORMATION ON THE WETLAND MITIGATION AND PLANTING PLAN AS PREPARED BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES INC.
WETLAND MITIGATION PLAN
SCALE: 1"=10'
PLAN
SCALE: 1"=20'
EVERSOURCE
Revisions:
Rev Date Description
Issued For: BIDDING
NORTH
Date: SEPTEMBER 11, 2019
Drawn By: BMH
Reviewed By: JSP
Approved By: DCH
W&S Project No: 2160758
Drawing Title:
PHASE V - CAPPING & WETLANDS MITIGATION PLAN
Sheet Number:
C-7

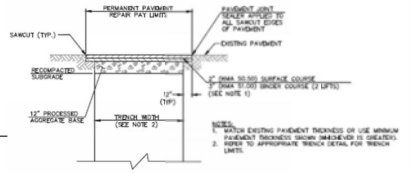
CROSS SECTION

HORIZONTAL: VERTICAL SCALE 1:10



NOTE:
MINIMUM EXCAVATION DEPTH SHOWN RENDER SOIL INACCESSIBLE UNDER THE RSRs. ACTUAL EXCAVATION DEPTHS MAY BE GREATER.

PLAN
SCALE: 1"=10'



PAVING DETAIL

Project:
EVERSOURCE
EVERSOURCE ENERGY
P O BOX 5077
HARTFORD, CT 06102
WETLAND POND REMEDIATION
BERLIN CAMPUS
110 SELDEN STREET
BERLIN, CT 06037

Weston & Sampson

Consultants:

Revisions:

Rev	Date	Description
1	10/1/19	ADDENDUM

Issued For: BIDDING

NORTH

Date: SEPTEMBER 11, 2019
Drawn By: BMH
Reviewed By: JSP
Approved By: DCH
W&S Project No: 2190758

Drawing Title:
CROSS SECTION

Sheet Number:

712 Brook Street, Suite 103, Rocky Hill, CT 06067
Tel: 860.513.1473

December 10, 2020

Ms. Kimberly N. Tisa, PCB Coordinator
U.S. Environmental Protection Agency, Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100 (LCRD7-2)
Boston, MA 02109-3912

Re: **Modification Request – Supplemental Information**
Berlin Settling Basin Remedial Action
Eversource Energy Services Company
107 Selden Street, Berlin, CT

Dear Ms. Tisa:

On behalf of Eversource Energy Services Company (Eversource), Weston & Sampson has prepared this supplemental submittal for the remediation of polychlorinated biphenyl (PCB)-impacted soil at the Berlin Settling Basin at the above referenced address. The remedial plan was approved in a letter from the United States Environmental Protection Agency (EPA) dated June 27, 2019 (the Approval). Additional submittals concerning this remediation include:

- Modification and Notification Request submitted on September 15, 2020. The request provided a Notification of the discovery of (1) a new area of soil with polychlorinated biphenyl (PCB) concentrations greater than or equal to fifty milligram per kilogram (≥50 mg/kg) and (2) PCB-containing debris at locations not previously identified. The Modification requested an expansion of the Environmental Land Use Restriction (ELUR) for the site to cover additional areas where soil with PCB concentrations ≤10 mg/kg would be left in place.
- Modification and Notification Request – Supplemental Information submitted on October 21, 2020. This supplemental submittal included data and figures describing additional sampling that was performed to delineate impacts within the previously unidentified area with soil impacts ≥50 mg/kg PCBs. It also described remedial actions that would be performed to remove soil containing >10 mg/kg using sheet pile for a deep excavation.
- Final Conditions Figure with Cross-Section Location and Final Roadway Cross-Section submitted on November 13, 2020. These figures addressed questions from EPA concerning remediation and final conditions in this area.

EPA approved the modification request in an email dated November 29, 2020. This submittal of supplemental information (1) provides additional information gathered from the Site since the October 21, 2020 letter and (2) requests that no additional verification samples be required to verify the completion of the excavation as described in this letter.

Supplemental Information for the Modification Request

The October submittal described PCB concentrations following the sampling of the proposed remediation area on a five-foot by five-foot (5' x 5') grid with samples being collected at every five feet of depth at each boring. Attached are Table 1 which shows the data from that sampling program and Figure 1 which shows the original sample locations. The following condition was identified in the original data:

- The goal for the remediation was to drive sheet pile at locations where PCB concentrations in soil were <10 mg/kg. There were five samples in two separate areas where PCB concentrations exceeded 10

mg/kg at the locations where sheet pile would be installed. That supplemental submittal indicated that the soil at these locations would be excavated and that Subpart O sampling would be performed following this removal action prior to the installation of any sheet piles.

Soil in the two areas was excavated on October 21 and 22 and transported offsite for disposal at a chemical waste landfill. Verification samples were collected from the two separate locations on October 23. Attached are:

- Table 2 which provides the data from the verification sample collected following the removal action. The verification sampling indicates that the sheet pile can be driven at locations where PCBs are <10 mg/kg. Please note that the attached Table 1 providing the original data has been modified with "grayed" out cells showing that soil representing that sample result has been excavated.
- Figure 2 which shows boring locations from the October submittal with the Subpart O verification sample locations and sample results collected following the excavation performed in November. Also shown on the figure is the proposed location for the sheet pile which will be driven into soil with PCBs <10 mg/kg.

It is noted that there are sample results >10 mg/kg in the verification samples collected on October 23, 2020 but that all of these locations will be within the sheet pile installation. In addition, with the data collected following these removal actions, the entire perimeter of the recently discovered area of PCB impacts ≥50 mg/kg has been delineated to a concentration of <10 mg/kg.

In the October 21 supplemental submittal, it was also noted that the vertical delineation of PCB impacts >10 mg/kg was completed except at two locations, 2B27 and 2B36. In that submittal, it was proposed that additional verification samples would be collected at the locations of these borings following the removal of soil within the sheet pile area. However, during the performance of geotechnical borings to aid in the design of the sheet pile, bedrock was encountered at approximately 32 feet below grade.

Two figures were attached to the October 21, 2020 supplemental submittal that provided cross-sections for the excavation and showed PCB concentrations at depths. These cross-sections show that groundwater is encountered at 16 feet below grade and that the proposed total depth of the excavation was between 26 to 30 feet below grade. However, because of the presence of bedrock at 32 feet below grade, a new plan for dewatering was required. During the redesign of the sheet pile and dewatering, it was determined that collection of any additional verification samples following excavation would be difficult and dangerous to perform because of the total depth of the excavation and the depth of groundwater.

Additional sampling was performed on November 4, 2020 to delineate vertical PCB impacts to soil at the previous sample locations 2B27, 2B35, and 2B36 and the results are provided in the attached Table 3. Sampling of bedrock was performed on November 17, 2020 at sample locations 2B35 and 2B36 and those results are also provided in Table 3. The results from these borings complete the delineation of PCB impacts in the vertical and indicate that bedrock is not impacted by PCBs. The attached Figure 3 is the cross-section from the October 21 supplemental submittal modified with the new information gathered from subsequent investigation.

Eversource requests approval for the excavation of PCB impacts in this area followed by restoration as follows:

- Sheet pile will be driven into bedrock as shown on Figure 3.
- The area will be dewatered, and the dewatering effluent treated and discharged to the sanitary sewer under the permit already submitted to CT DEEP.
- All soil and weathered bedrock (down to a depth of approximately 32.5 feet below grade) will be removed from within the area of sheet pile and disposed of at a chemical waste landfill.
- No verification samples will be collected as the data collected to date indicate that all soil with total PCB concentrations >10 mg/kg will be removed.

- Following the completion of removal actions, clean processed stone will be placed from the base of the excavation to above the observed high groundwater table.
- Soil from the site with PCB impacts <10 mg/kg will be used to backfill the excavation from above the groundwater table to a maximum depth of 4 feet below grade.
- The remainder of the excavation will be backfilled with clean materials and completed with asphalt for the roadway with limited extent on the northwestern side completed with turf as shown in the November submittal.

If you have any questions or comments on the materials provided in this submittal, please feel free to contact me via email at bartoszr@wseinc.com or phone at 860-956-6948.

Sincerely,

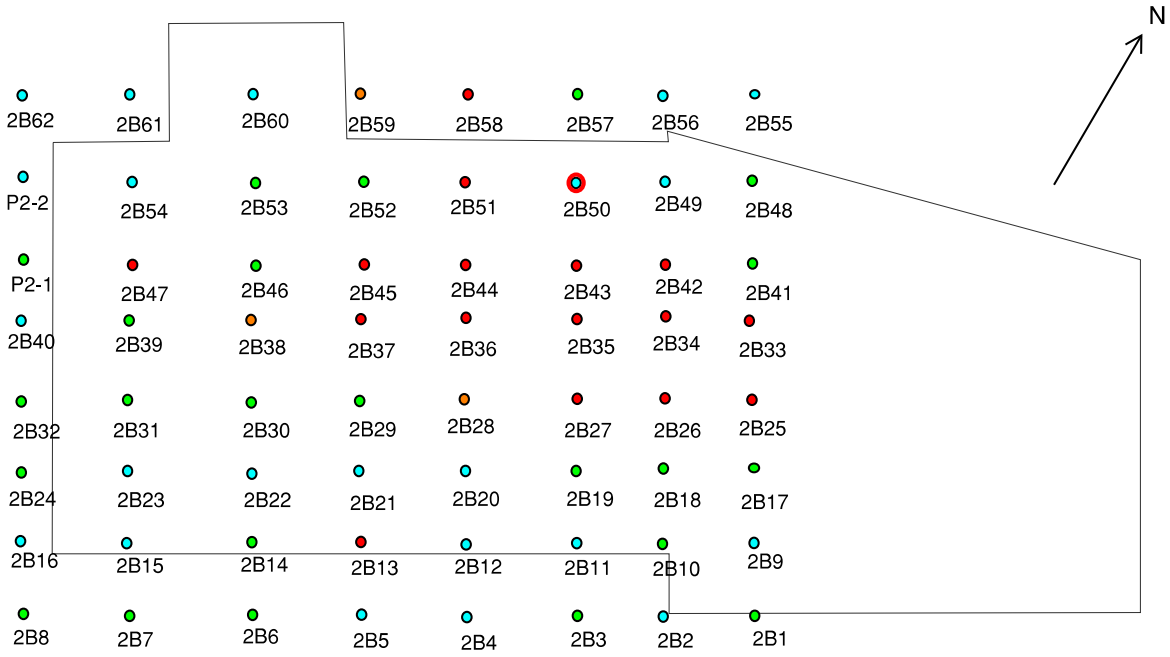
WESTON & SAMPSON ENGINEERS, INC.



Ryan S. Bartosz
Senior Project Manager, LEP

Attachments

cc: Gary Trombly, CT DEEP
Amber Trahan, CT DEEP



Total PCB Concentrations <1 mg/kg

Total PCB Concentrations >1 mg/kg and <10 mg/kg

Total PCB Concentrations >10 mg/kg and <50 mg/kg

Total PCB Concentrations >50 mg/kg

Prepack Monitoring Well Location

Note: PCB Concentration represented is maximum concentration determined for any sample from the soil boring.

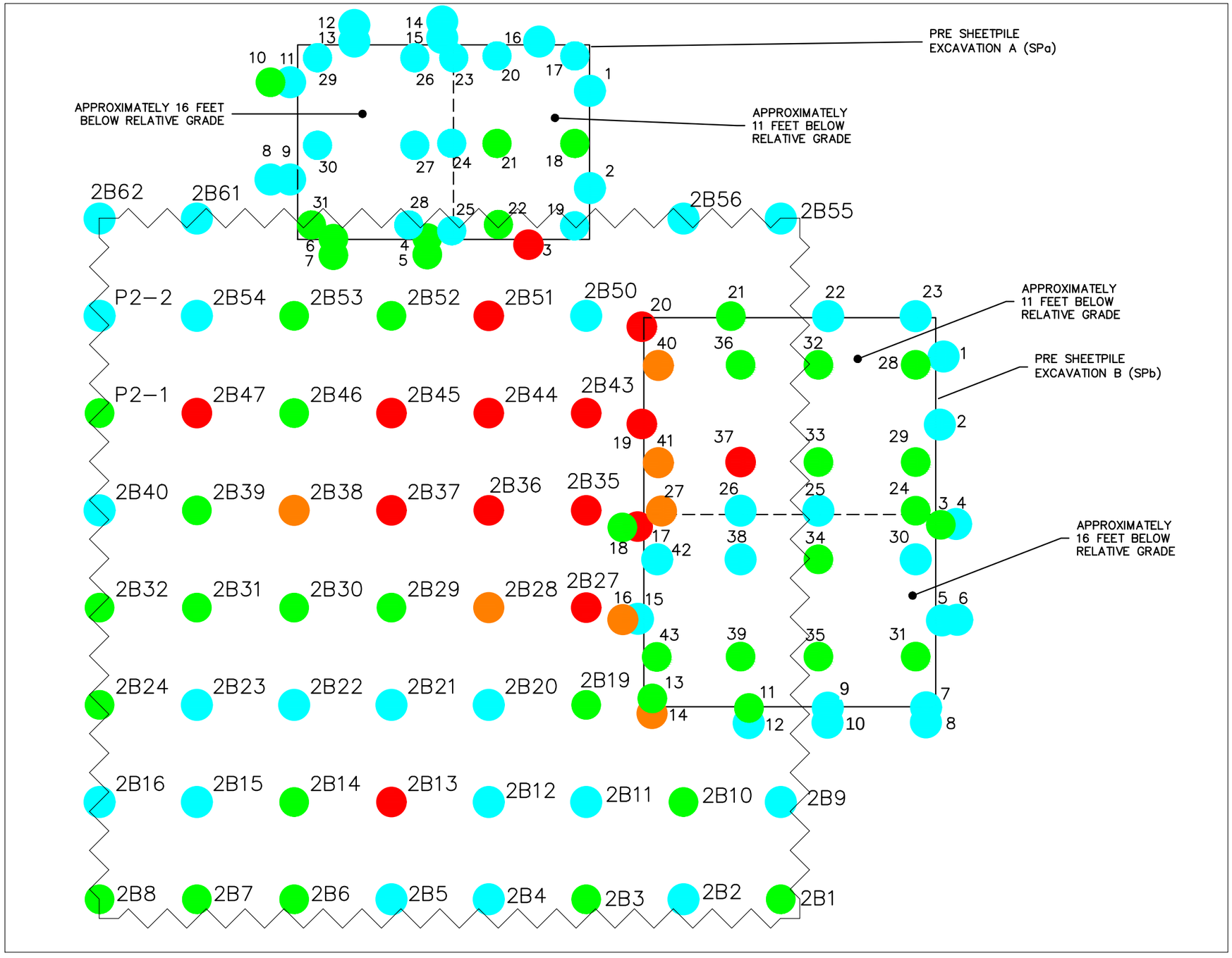
FIGURE 1

EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CONNECTICUT

SOIL BORING LOCATIONS

OCTOBER 2020 SCALE: NTS

Weston & Sampson



SCALE: 1" = 4'

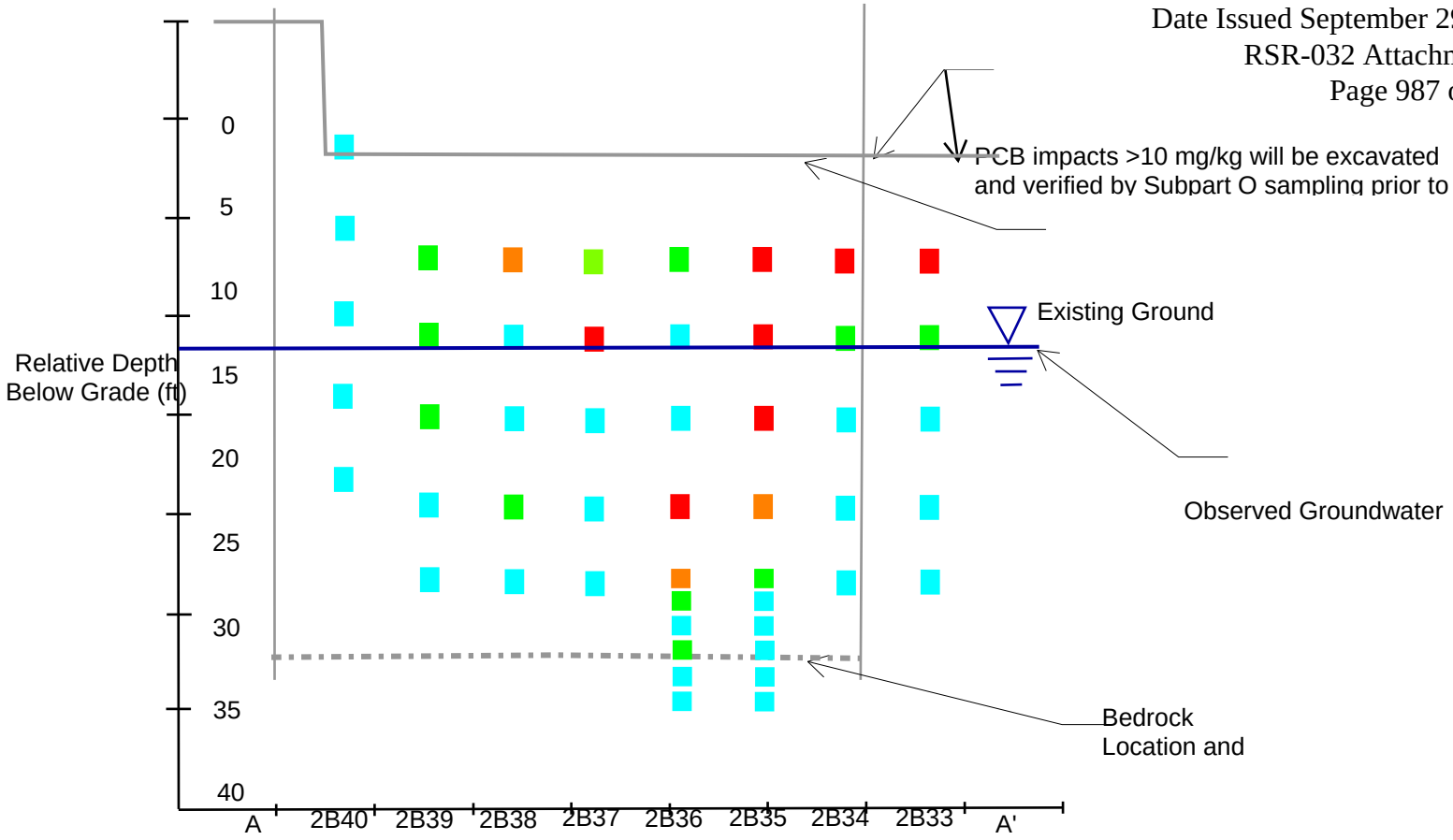
LEGEND:

- TOTAL PCB CONCENTRATIONS < 1 mg/kg
- TOTAL PCB CONCENTRATIONS > 1 mg/kg and < 10 mg/kg
- TOTAL PCB CONCENTRATIONS > 10 mg/kg and < 50 mg/kg
- TOTAL PCB CONCENTRATIONS > 50 mg/kg
- PROPOSED SHEET PILE LOCATION

FIGURE 2
EVERSOURCE ENERGY
BERLIN SETTLING BASIN
BERLIN, CONNECTICUT

PROPOSED SHEET PILE AND VERIFICATION SAMPLE LOCATOINS

Weston & Sampson



Note: Ground surface at boring 2B62 assigned an elevation of 0 feet. Relative depth below ground surface is depth below this elevation.

FIGURE 3EVERSOURCE ENERGYBERLIN SETTLING BASINBERLIN, CONNECTICUTCROSS-SECTION A-A' OCTOBER 2020
SCALE: NTS

Weston & Sampson

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B1					2B2					2B3					2B4				
Sample ID	2B1 (0-0.5)	2B1 (4.5-5)	2B1 (9.5-10)	2B1 (14.5-15)	2B1 (19.5-20)	2B2 (0-0.5)	2B2 (4.5-5)	2B2 (9.5-10)	2B2 (14.5-15)	2B2 (19.5-20)	2B3 (0-0.5)	2B3 (4.5-5)	2B3 (9.5-10)	2B3 (14.5-15)	2B3 (19.5-20)	2B4 (0-0.5)	2B4 (4.5-5)	2B4 (9.5-10)	2B4 (14.5-15)	2B4 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	4-4.5	8.5-9	13.4-14	18.5-19	23.5-24	4-4.5	8.5-9	13.4-14	18.5-19	23.5-24	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26
Aroclor 1248	ND <0.370	ND <0.370	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	ND <0.400	ND <0.420	ND <0.410	ND <0.380	ND <0.400	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430
Aroclor 1254	ND <0.370	ND <0.370	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	ND <0.400	ND <0.420	ND <0.410	ND <0.380	ND <0.400	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430
Aroclor 1260	ND <0.370	**2.4**	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	**1.1**	ND <0.420	ND <0.410	ND <0.380	**1.0**	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430
Total PCBs (mg/kg)	ND <0.370	**2.4**	ND <0.410	ND <0.430	ND <0.380	ND <0.390	ND <0.400	ND <0.400	ND <0.500	ND <0.400	**1.1**	ND <0.420	ND <0.410	ND <0.380	**1.0**	ND <0.400	ND <0.410	ND <0.380	ND <0.390	ND <0.430

Soil Boring Location	2B5					2B6					2B7					2B8						
Sample ID	2B5 (0-0.5)	2B5 (4.5-5)	2B5 (9.5-10)	2B5 (14.5-15)	2B5 (19.5-20)	2B6 (0-0.5)	2B6 (4.5-5)	2B6 (9.5-10)	2B6 (14.5-15)	2B6 (19.5-20)	2B7 (0-0.5)	2B7 (4.5-5)	2B7 (9.5-10)	2B7 (14.5-15)	2B7 (19.5-20)	2B8 (0-0.5)	2B8 (4.5-5)	2B8 (9.5-10)	2B8 (14.5-15)	2B8 (19.5-20)	2B8 (24.5-25)	2B8 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <0.400	ND <0.430	ND <0.400	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	ND <2.2	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	ND <0.380	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380
Aroclor 1254	ND <0.400	ND <0.430	ND <0.400	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	ND <2.2	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	ND <0.380	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380
Aroclor 1260	ND <0.400	ND <0.430	**0.48**	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	**9.1**	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	**0.89**	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380
Total PCBs (mg/kg)	ND <0.400	ND <0.430	**0.48**	ND <0.390	ND <0.380	ND <0.400	ND <0.430	ND <0.360	**9.1**	ND <0.370	ND <0.400	ND <0.420	ND <0.370	ND<.360	ND <0.370	**0.89**	ND <0.390	ND <0.430	ND <0.380	ND <0.370	ND <0.360	ND <0.380

Soil Boring Location	2B9					2B10					2B11					2B12				
Sample ID	2B9 (0-0.5)	2B9 (4.5-5)	2B9 (9.5-10)	2B9 (14.5-15)	2B9 (19.5-20)	2B10 (0-0.5)	2B10 (4.5-5)	2B10 (9.5-10)	2B10 (14.5-15)	2B10 (19.5-20)	2B11 (0-0.5)	2B11 (4.5-5)	2B11 (9.5-10)	2B11 (14.5-15)	2B11 (19.5-20)	2B12 (0-0.5)	2B12 (4.5-5)	2B12 (9.5-10)	2B12 (14.5-15)	2B12 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	6-6.5	10.5-11	15.5-16	20.5-21	25.5-26	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.400	ND <0.410	ND <0.400	ND <0.400	ND <0.380	ND <0.360	ND <0.430	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	ND <0.370	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390
Aroclor 1254	ND <0.400	ND <0.410	ND <0.400	ND <0.400	ND <0.380	ND <0.360	ND <0.430	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	ND <0.370	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390
Aroclor 1260	ND <0.400	ND <0.410	**0.66**	ND <0.400	ND <0.380	ND <0.360	**1.1**	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	**0.44**	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390
Total PCBs (mg/kg)	ND <0.400	ND <0.410	**0.66**	ND <0.400	ND <0.380	ND <0.360	**1.1**	ND <0.410	ND <0.440	ND <0.420	ND <0.390	ND <0.430	ND <0.400	**0.44**	ND <0.400	ND <0.400	ND <0.390	ND <0.410	ND <0.370	ND <0.390

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Soil excavated during additional removal actions

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B13					2B14					2B15					2B16					
Sample ID	2B13 (0-0.5)	2B13(4.5-5)	2B13 (9.5-10)	2B13 (14.5-15)	2B13 (19.5-20)	2B14 (0-0.5)	2B14 (4.5-5)	2B14 (9.5-10)	2B14 (14.5-15)	2B14 (19.5-20)	2B15 (0-0.5)	2B15 (4.5-5)	2B15 (9.5-10)	2B15 (14.5-15)	2B15 (19.5-20)	2B16 (0-0.5)	2B16 (4.5-5)	2B16 (9.5-10)	2B16 (14.5-15)	2B16 (19.5-20)	2B16 (22.5-23)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	22.5-23
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	22.5-23
Aroclor 1248	ND <0.400	ND <0.440	ND <38	ND <3.9	ND <0.370	ND <0.390	ND <0.420	ND <0.370	ND <0.390	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	ND <0.360	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380
Aroclor 1254	ND <0.400	ND <0.440	ND <38	ND <3.9	ND <0.370	ND <0.390	ND <0.420	ND <0.370	ND <0.390	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	ND <0.360	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380
Aroclor 1260	ND <0.400	**0.59**	**270**	**28**	**1.1**	**1.2**	ND <0.420	**0.96**	**0.66**	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	**0.76**	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380
Total PCBs (mg/kg)	ND <0.400	**0.59**	**270**	**28**	**1.1**	**1.2**	ND <0.420	**0.96**	**0.66**	ND <0.390	ND <0.410	ND <0.440	ND <0.380	ND <0.380	ND <0.370	**0.76**	ND <0.400	ND <0.450	ND <0.380	ND <0.370	ND <0.380

Soil Boring Location	2B17					2B18					2B19					2B20				
Sample ID	2B17 (0-0.5)	2B17 (4.5-5)	2B17 (9.5-10)	2B17 (14.5-15)	2B17 (19.5-20)	2B18 (0-0.5)	2B18 (4.5-5)	2B18 (9.5-10)	2B18 (14.5-15)	2B18 (19.5-20)	2B19 (0-0.5)	2B19 (4.5-5)	2B19 (9.5-10)	2B19 (14.5-15)	2B19 (19.5-20)	2B20 (0-0.5)	2B20 (4.5-5)	2B20 (9.5-10)	2B20 (14.5-15)	2B20 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.380	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <0.360	ND <0.370	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.470	ND <0.390	ND <0.400	ND <0.410	ND <0.370	ND <0.420	ND <0.380	ND <0.390
Aroclor 1254	ND <0.380	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <0.360	ND <0.370	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.470	ND <0.390	ND <0.400	ND <0.410	ND <0.370	ND <0.420	ND <0.380	ND <0.390
Aroclor 1260	**1.1**	ND <0.400	ND <0.410	ND <0.430	ND <0.390	**0.82**	ND <0.370	ND <0.400	**3.0**	ND <0.380	**3.7**	ND <0.380	ND <0.470	**0.5**	**1.9**	**0.57**	ND <0.370	ND <0.420	ND <0.380	ND <0.390
Total PCBs (mg/kg)	**1.1**	ND <0.400	ND <0.410	ND <0.430	ND <0.390	**0.82**	ND <0.370	ND <0.400	**3.0**	ND <0.380	**3.7**	ND <0.380	ND <0.470	**0.5**	**1.9**	**0.57**	ND <0.370	ND <0.420	ND <0.380	ND <0.390

Soil Boring Location	2B21					2B22					2B23					2B24					
Sample ID	2B21 (0-0.5)	2B21 (4.5-5)	2B21 (9.5-10)	2B21 (14.5-15)	2B21 (19.5-20)	2B22 (0-0.5)	2B22 (4.5-5)	2B22 (9.5-10)	2B22 (14.5-15)	2B22 (19.5-20)	2B23 (0-0.5)	2B23 (4.5-5)	2B23 (9.5-10)	2B23 (14.5-15)	2B23 (19.5-20)	2B24 (0-0.5)	2B24 (4.5-5)	2B24 (9.5-10)	2B24 (14.5-15)	2B24 (19.5-20)	2B24 (24.5-25)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-5
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-5
Aroclor 1248	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.410	ND <0.390	ND <0.380	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.350
Aroclor 1254	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.410	ND <0.390	**0.64**	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.380	ND <0.350
Aroclor 1260	ND <0.400	ND <0.380	ND <0.370	ND <0.390	**0.75**	ND <0.390	ND <0.380	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	**0.53**	ND <0.400	ND <0.390	ND <0.380	ND <0.380	**4.4**	ND <0.380	ND <0.380	ND <0.350
Total PCBs (mg/kg)	ND <0.400	ND <0.380	ND <0.370	ND <0.390	**0.75**	ND <0.390	**0.64**	ND <0.370	ND <0.380	ND <0.400	ND <0.390	ND <0.390	**0.53**	ND <0.400	ND <0.390	ND <0.380	ND <0.380	**4.4**	ND <0.380	ND <0.380	ND <0.350

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Soil excavated during additional removal actions

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B25					2B26					2B27					2B28				
Sample ID	2B25 (0-0.5)	2B25 (4.5-5)	2B25 (9.5-10)	2B25 (14.5-15)		2B26 (0-0.5)	2B26 (4.5-5)	2B26 (9.5-10)	2B26 (14.5-15)	2B26 (19.5-20)	2B27 (0-0.5)	2B27 (4.5-5)	2B27 (9.5-10)	2B27 (14.5-15)	2B27 (19.5-20)	2B28 (0-0.5)	2B28 (4.5-5)	2B28 (9.5-10)	2B28 (14.5-15)	2B28 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15		0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22		7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.380	ND <37	ND <0.410	ND <0.360		ND <0.390	ND <19	ND <0.430	ND <0.430	ND <0.400	ND <3.8	ND <40	ND <0.410	ND <0.390	ND <9.50	ND <0.390	ND <3.8	ND <0.400	ND <0.500	ND <0.400
Aroclor 1254	ND <0.380	ND <37	ND <0.410	ND <0.360		ND <0.390	ND <19	ND <0.430	ND <0.430	ND <0.400	ND <3.8	ND <40	ND <0.410	ND <0.390	ND <9.50	ND <0.390	ND <3.8	ND <0.400	ND <0.500	ND <0.400
Aroclor 1260	**2.0**	**280**	ND <0.410	**0.47**		**3.0**	**75**	**0.92**	ND <0.430	**2.2**	**1.5**	**430**	ND <0.410	ND <0.390	**42**	**0.69**	**38**	ND <0.400	ND <0.500	ND <0.400
Total PCBs (mg/kg)	**2.0**	**280**	ND <0.410	**0.47**		**3.0**	**75**	**0.92**	ND <0.430	**2.2**	**1.5**	**430**	ND <0.410	ND <0.390	**42**	**0.69**	**38**	ND <0.400	ND <0.500	ND <0.400

Soil Boring Location	2B29					2B30					2B31					2B32						
Sample ID	2B29 (0-0.5)	2B29 (4.5-5)	2B29 (9.5-10)	2B29 (14.5-15)	2B29 (19.5-20)	2B30 (0-0.5)	2B30 (4.5-5)	2B30 (9.5-10)	2B30 (14.5-15)	2B30 (19.5-20)	2B31 (0-0.5)	2B31 (4.5-5)	2B31	2B31 (14.5-15)	2B31 (19.5-20)	2B32 (0-0.5)	2B32 (4.5-5)	2B32 (9.5-10)	2B32 (14.5-15)	2B32 (19.5-20)	2B32 (24.5-25)	2B32 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <1.90	ND <0.360	ND <0.460	ND <0.380	ND <0.390	ND <1.8	ND <0.380	ND <0.400	ND <0.400	ND <0.210	ND <0.380	ND <0.390	ND <0.380	ND <0.390	ND <0.380	ND <0.360	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430
Aroclor 1254	*	ND <0.360	ND <0.460	ND <0.380	ND <0.390	*	ND <0.380	ND <0.400	ND <0.400	ND <0.210	*	ND <0.390	ND <0.380	ND <0.390	ND <0.380	ND <0.360	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430
Aroclor 1260	**7.0**	ND <0.360	ND <0.460	ND <0.380	ND <0.390	**9.7**	**0.88**	ND <0.400	ND <0.400	**0.44**	**1.1**	ND <0.390	ND <0.380	ND <0.390	ND <0.380	**2.7**	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430
Total PCBs (mg/kg)	**7.0**	ND <0.360	ND <0.460	ND <0.380	ND <0.390	**9.7**	**0.88**	ND <0.400	ND <0.400	**0.44**	**1.1**	ND <0.390	ND <0.380	ND <0.390	ND <0.380	**2.7**	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.390	ND <0.430

Soil Boring Location	2B33					2B34					2B35					2B36				
Sample ID	2B33 (0-0.5)	2B33 (4.5-5)	2B33 (9.5-10)	2B33 (14.5-15)	2B33 (19.5-20)	2B34 (0-0.5)	2B34 (4.5-5)	2B34 (9.5-10)	2B34 (14.5-15)	2B34 (19.5-20)	2B35 (0-0.5)	2B35 (4.5-5)	2B35 (9.5-10)	2B35 (14.5-15)	2B35 (19.5-20)	2B36 (0-0.5)	2B36 (4.5-5)	2B36 (9.5-10)	2B36 (14.5-15)	2B36 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <18	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <190	ND <0.420	ND <0.410	ND <0.410	ND <0.370	ND <3,900	ND <43	ND <380	ND <2	ND <1.9	ND <1.8	ND <0.420	ND <0.450	ND <380	ND <4.2
Aroclor 1254	ND <18	ND <0.400	ND <0.410	ND <0.430	ND <0.390	ND <190	ND <0.420	ND <0.410	ND <0.410	ND <0.370	ND <3,900	ND <43	ND <380	ND <2	ND <1.9	ND <1.8	ND <0.420	ND <0.450	ND <380	ND <4.2
Aroclor 1260	**80**	**3.2**	**0.94**	ND <0.430	**0.81**	**1,600**	**1.4**	**0.74**	**0.47**	**0.56**	**6,700**	**500**	**2,700**	**11**	**3.7**	**3.0**	ND <0.420	ND <0.450	**1,600**	**29**
Total PCBs (mg/kg)	**80**	**3.2**	**0.94**	ND <0.430	**0.81**	**1,600**	**1.4**	**0.74**	**0.47**	**0.56**	**6,700**	**500**	**2,700**	**11**	**3.7**	**3.0**	ND <0.420	ND <0.450	**1,600**	**29**

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Soil excavated during additional removal actions

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B37					2B38					2B39					2B40						
Sample ID	2B37 (0-0.5)	2B37 (4.5-5)	2B37 (9.5-10)	2B37 (14.5-15)	2B37 (19.5-20)	2B38 (0-0.5)	2B38 (4.5-5)	2B38 (9.5-10)	2B38 (14.5-15)	2B38 (19.5-20)	2B39 (0-0.5)	2B39 (4.5-5)	2B39 (9.5-10)	2B39 (14.5-15)	2B39 (19.5-20)	2B40 (0-0.5)	2B40 (4.5-5)	2B40 (9.5-10)	2B40 (14.5-15)	2B40 (19.5-20)	2B40 (24.5-25)	2B40 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <1.8	ND<38	ND <0.410	ND <0.390	ND <0.380	ND <1.8	ND <0.350	ND <0.420	ND <0.450	ND <400	ND <1.8	ND <0.370	ND <0.400	ND <0.370	ND <0.380	ND <0.370	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.390	ND <0.370
Aroclor 1254	ND <1.8	ND<38	ND <0.410	ND <0.390	ND <0.380	ND <1.8	ND <0.350	ND <0.420	ND <0.450	ND <400	ND <1.8	*	ND <0.400	ND <0.370	ND <0.380	ND <0.370	ND <0.400	ND <0.380	ND <0.370	ND <0.390	ND <0.390	ND <0.370
Aroclor 1260	**4.9**	**420**	**0.85**	**0.91**	**0.91**	**19**	ND <0.350	**0.77**	**1.7**	ND <400	**5.4**	**2.5**	**1.7**	ND <0.370	ND <0.380	**0.51**	ND <0.400	ND <0.380	**0.37**	ND <0.390	ND <0.390	ND <0.370
Total PCBs (mg/kg)	**4.9**	**420**	**0.85**	**0.91**	**0.91**	**19**	ND <0.350	**0.77**	**1.7**	ND<400	**5.4**	**2.5**	**1.7**	ND <0.370	ND <0.380	**0.51**	ND <0.400	ND <0.380	**0.37**	ND <0.390	ND <0.390	ND <0.370

Soil Boring Location	2B41					2B42					2B43					2B44				
Sample ID	2B41 (0-0.5)	2B41 (4.5-5)	2B41 (9.5-10)	2B41 (14.5-15)	2B41 (19.5-20)	2B42 (0-0.5)	2B42 (4.5-5)	2B42 (9.5-10)	2B42 (14.5-15)	2B42 (17.5-18)	2B43 (0-0.5)	2B43 (4.5-5)	2B43 (9.5-10)	2B43 (14.5-15)	2B43 (19.5-20)	2B44 (0-0.5)	2B44 (4.5-5)	2B44 (9.5-10)	2B44 (14.5-15)	2B44 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	17.5-18	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27
Aroclor 1248	ND <0.370	ND <0.410	ND <0.380	ND <0.380	ND <0.380	ND <39	ND <1.8	ND <0.370	ND <0.400	ND <0.370	ND <1,900	ND <1,800	ND <0.380	ND <0.390	ND <0.370	ND <1,800	ND < 1,900	ND <0.380	ND <0.380	ND <1.9
Aroclor 1254	ND <0.370	ND < .410	ND <0.380	ND <0.380	ND <0.380	ND <39	ND <1.8	ND <0.370	ND <0.400	ND <0.370	ND <1,900	ND <1,800	ND <0.380	ND <0.390	ND <0.370	ND <1,800	ND <1,900	ND <0.380	ND <0.380	ND <1.9
Aroclor 1260	**2.4**	ND <0.410	ND <0.380	ND <0.380	ND <0.380	**140**	**6.7**	ND <0.370	**1.0**	ND <0.370	**4,900**	**5,600**	ND <0.380	0.96	**1.8**	**4.0**	**6,800**	**0.55**	**0.67**	**4.5**
Total PCBs (mg/kg)	**2.4**	ND <0.410	ND <0.380	ND <0.380	ND <0.380	**140**	**6.7**	ND <0.370	**1.0**	ND <0.370	**4,900**	**5,600**	ND <0.380	0.96	**1.8**	**4.0**	**6,800**	**0.55**	**0.67**	**4.5**

Soil Boring Location	2B45					2B46					2B47					P2-1				
Sample ID	2B45 (0-0.5)	2B45 (4.5-5)	2B45 (9.5-10)	2B45 (14.5-15)	2B45 (19.5-20)	2B46 (0-0.5)	2B46 (4.5-5)	2B46 (9.5-10)	2B46 (14.5-15)	2B46 (19.5-20)	2B47 (0-0.5)	2B47 (4.5-5)	2B47 (9.5-10)	2B47 (14.5-15)	2B47 (19.5-20)	P2-1 (4.5-5)	P2-1 (9.5-10)	P2-1 (14.5-15)	P2-1 (4.5-5)	P2-1 (4.5-5)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Aroclor 1248	ND <0.350	ND <37	ND <20	ND <0.400	ND <0.390	ND <1.8	ND <1.8	ND <0.380	ND <0.380	ND <0.390	ND <0.360	ND <0.400	ND <0.380	ND <380	ND <0.410	ND <0.370	ND <0.390	ND <0.360	ND <0.390	ND <0.390
Aroclor 1254	*	ND <37	ND <20	ND <0.400	ND <0.390	ND <1.8	ND <1.8	ND <0.380	ND <0.380	ND <0.390	ND <0.360	ND <0.400	ND <0.380	ND <380	ND <0.410	ND <0.370	ND <0.390	ND <0.360	ND <0.390	ND <0.390
Aroclor 1260	**3.9**	**84**	**61**	**3.2**	**1.1**	**4.9**	**5.3**	**0.69**	ND <0.380	**1.3**	ND <0.360	ND <0.400	**3.5**	**510**	ND <0.410	**1.2**	ND <0.390	ND <0.360	ND <0.390	ND <0.390
Total PCBs (mg/kg)	**3.9**	**84**	**61**	**3.2**	**1.1**	**4.9**	**5.3**	**0.69**	ND <0.380	**1.3**	ND <0.360	ND <0.400	**3.5**	**510**	ND <0.410	**1.2**	ND <0.390	ND <0.360	ND <0.390	ND <0.390

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Soil excavated during additional removal actions

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B48					2B49					2B50					2B51				
Sample ID	2B48 (0-0.5)	2B48 (4.5-5)	2B48 (9.5-10)	2B48 (14.5-15)	2B48 (19.5-20)	2B49 (0-0.5)	2B49 (4.5-5)	2B49 (9.5-10)	2B49 (14.5-15)	2B49 (19.5-20)	2B50 (0-0.5)	2B50 (4.5-5)	2B50 (9.5-10)	2B50 (14.5-15)	2B50 (19.5-20)	2B51 (0-0.5)	2B51 (4.5-5)	2B1 (9.5-10)	2B51 (14.5-15)	2B51 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25
Aroclor 1248	ND <0.390	ND <1.9	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	ND <2.0	ND <190	ND <0.400	ND <0.410	ND <0.370
Aroclor 1254	ND <0.390	ND <1.9	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	ND <2.0	ND <190	ND <0.400	ND <0.410	ND <0.370
Aroclor 1260	ND <0.390	**8.0**	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	**8.9**	**530**	ND <0.400	ND <0.410	**1.0**
Total PCBs (mg/kg)	ND <0.390	**8.0**	ND <0.370	ND <0.450	ND <0.380	ND <0.370	ND <0.380	ND <0.380	ND <0.450	ND <0.450	ND <0.370	ND <0.380	ND <0.380	ND <0.390	ND <0.380	**8.9**	**530**	ND <0.400	ND <0.410	**1.0**

Soil Boring Location	2B52					2B53					2B54					P2-2				
Sample ID	2B52 (0-0.5)	2B52 (4.5-5)	2B52 (9.5-10)	2B52 (14.5-15)	2B52 (19.5-20)	2B53 (0-0.5)	2B53 (4.5-5)	2B53 (9.5-10)	2B53 (14.5-15)	2B53 (19.5-20)	2B54 (0-0.5)	2B54 (4.5-5)	2B54 (9.5-10)	2B54 (14.5-15)	2B54 (19.5-20)	P2-2 (4.5-5.0)	P2-2 (9.5-10.0)	P2-2 (14.5-15)	P2-2 (19.5-20)	P2-2 (23.5-24)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	4.5-5	9.5-10	14.5-15	19.5-20	23.5-24
Aroclor 1248	ND <0.360	ND <0.360	ND <0.380	ND <0.390	ND <0.380	ND <1.9	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	ND <0.380	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390
Aroclor 1254	ND <0.360	ND <0.360	ND <0.380	ND <0.390	ND <0.380	ND <1.9	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	ND <0.380	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390
Aroclor 1260	**1.0**	**1.9**	ND <0.380	ND <0.390	**0.57**	**4.9**	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	**0.39**	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390
Total PCBs (mg/kg)	**1.0**	**1.9**	ND <0.380	ND <0.390	**0.57**	**4.9**	ND <0.370	ND <0.370	ND <0.430	ND <0.380	ND <0.380	**0.39**	ND <0.370	ND <0.380	ND <0.370	ND <0.420	ND <0.380	ND <0.370	ND <0.400	ND <0.390

Soil Boring Location	2B55					2B56					2B57					2B58				
Sample ID	2B55 (0-0.5)	2B55 (4.5-5)	2B55 (9.5-10)	2B55 (14.5-15)	2B55 (19.5-20)	2B56 (0-0.5)	2B56 (4.5-5)	2B56 (9.5-10)	2B56 (14.5-15)	2B56 (19.5-20)	2B57 (0-0.5)	2B57 (4.5-5)	2B57 (9.5-10)	2B57 (14.5-15)	2B57 (19.5-20)	2B58 (0-0.5)	2B58 (4.5-5)	2B58 (9.5-10)	2B58 (14.5-15)	2B58 (19.5-20)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25
Aroclor 1248	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	ND <0.360	ND <0.370	ND <0.380	ND <0.390	ND <0.380	ND <40	ND <0.380	ND <0.390	ND <0.380	ND <0.400
Aroclor 1254	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	ND <0.360	ND <0.370	ND <0.380	ND <0.390	ND <0.380	ND <40	ND <0.380	ND <0.390	ND <0.380	ND <0.400
Aroclor 1260	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	**2.8**	ND <0.370	ND <0.380	ND <0.390	ND <0.380	**180**	**0.43**	ND <0.390	ND <0.380	ND <0.400
Total PCBs (mg/kg)	ND <0.400	ND <0.370	ND <0.390	ND <0.380	ND <0.370	ND <0.370	ND <0.370	ND <0.370	ND <0.390	ND <0.390	**2.8**	ND <0.370	ND <0.380	ND <0.390	ND <0.380	**180**	**0.43**	ND <0.390	ND <0.380	ND <0.400

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Soil excavated during additional removal actions

Table 1
Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B59					2B60					2B61					2B62						
Sample ID	2B59 (0-0.5)	2B59 (4.5-5)	2B59 (9.5-10)	2B59 (14.5-15)	2B59 (19.5-20)	2B60 (0-0.5)	2B60 (4.5-5)	2B60 (9.5-10)	2B60 (14.5-15)	2B60 (19.5-20)	2B61 (0-0.5)	2B61 (4.5-5)	2B61 (9.5-10)	2B61 (14.5-15)	2B61 (19.5-20)	2B62 (0-0.5)	2B62 (4.5-5)	2B62 (9.5-10)	2B62 (14.5-15)	2B62 (19.5-20)	2B62 (24.5-25)	2B62 (29.5-30)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Relative Depth Below Grade (ft)	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	5-5.5	9.5-10	14.5-15	19.5-20	24.5-25	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	24.5-25	29.5-30
Aroclor 1248	ND <0.370	ND <18	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	ND <0.370	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390
Aroclor 1254	ND <0.370	ND <18	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	ND <0.370	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390
Aroclor 1260	**1.1**	**48**	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	**0.76**	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390
Total PCBs (mg/kg)	**1.1**	**48**	ND <0.380	ND <0.390	ND <0.380	ND <0.400	ND <0.380	ND <0.410	ND <0.440	ND <0.380	ND <0.410	ND <0.360	ND <0.390	ND <0.390	ND <0.380	**0.76**	ND <0.410	ND <0.390	ND <0.380	ND <0.400	ND <0.390	ND <0.390

Notes:
Only those Aroclors detected are reported. All other Aroclor results are non-detect.
Total PCBs is sum of Aroclor concentrations detected.
Depth Below Existing Grade - The measured depth below grade at the sampling point
Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg
Total PCB Concentration ≥10 mg/kg
Total PCB Concentration ≥1 mg/kg
PCBs Detected at Concentration <1 mg/kg

Soil excavated during additional removal actions

Table 2
Post-Excavation Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Verifcation Samples																					
Sample ID	SP (B)-1	SP (B)-2	SP (B)-3	SP (B)-4	SP (B)-5	SP (B)-6	SP (B)-7	SP (B)-8	SP (B)-9	SP (B)-10	SP (B)-11	SP (B)-12	SP (B)-13	SP (B)-14	SP (B)-15	SP (B)-16	SP (B)-17	SP (B)-18	SP (B)-19	SP (B)-20	SP (B)-21	SP (B)-22
Aroclor 1248	<0.39	<0.43	<0.39	<0.42	<0.34	<0.39	<0.36	<0.40	<0.38	<0.41	<0.42	<0.41	<0.43	<4.1	<0.41	<2.3	<4,000	<0.42	<40	<19	<0.40	<0.39
Aroclor 1254	<0.39	<0.43	<0.39	<0.42	<0.34	<0.39	<0.36	<0.40	<0.38	<0.41	<0.42	<0.41	<0.43	<4.1	<0.41	<2.3	<4,000	<0.42	<40	<19	<0.40	<0.39
Aroclor 1260	<0.39	<0.43	2.1	<0.42	0.65	<0.39	0.48	<0.40	0.99	<0.41	1.5	<0.41	2.0	28	0.83	23	11,000	1.8	300	74	1.2	<0.39
Total PCBs (mg/kg)	<0.39	<0.43	2.1	<0.42	0.65	<0.39	0.48	<0.40	0.99	<0.41	1.5	<0.41	2.0	28	0.83	23	11,000	1.8	300	74	1.2	<0.39

Verifcation Samples																					
Sample ID	SP (B)-23	SP (B)-24	SP (B)-25	SP (B)-26	SP (B)-27	SP (B)-28	SP (B)-29	SP (B)-30	SP (B)-31	SP (B)-32	SP (B)-33	SP (B)-34	SP (B)-35	SP (B)-36	SP (B)-37	SP (B)-38	SP (B)-39	SP (B)-40	SP (B)-41	SP (B)-42	SP (B)-43
Aroclor 1248	<0.44	<0.44	<0.44	<0.42	<2.0	<0.40	<0.40	<0.46	<0.43	<0.38	<0.39	<0.45	<0.43	<0.37	<19	<0.47	<0.43	<2.0	<4.1	<0.44	<0.41
Aroclor 1254	<0.44	<0.44	<0.44	<0.42	<2.0	<0.40	<0.40	<0.46	<0.43	<0.38	<0.39	<0.45	<0.43	<0.37	<19	<0.47	<0.43	<2.0	<4.1	<0.44	<0.41
Aroclor 1260	<0.44	4.3	0.78	<0.42	16	1.5	2.4	0.61	1.0	1.2	4.2	5.7	3.0	1.0	54	0.56	4.6	19	19	<0.44	3.2
Total PCBs (mg/kg)	<0.44	4.3	0.78	<0.42	16	1.5	2.4	0.61	1.0	1.2	4.2	5.7	3.0	1.0	54	0.56	4.6	19	19	<0.44	3.2

Notes:
Only those Aroclors detected are reported. All other Aroclor results are non-detect.
Total PCBs is sum of Aroclor concentrations detected.
Depth Below Existing Grade - The measured depth below grade at the sampling point
Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg
Total PCB Concentration ≥10 mg/kg
Total PCB Concentration ≥1 mg/kg
PCBs Detected at Concentration <1 mg/kg

Table 2
Post-Excavation Subpart O Grid Sampling PCB Results
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Verifcation Samples																						
Sample ID	SP (A)-1	SP (A)-2	SP (A)-3	SP (A)-4	SP (A)-5	SP (A)-6	SP (A)-7	SP (A)-8	SP (A)-9	SP (A)-10	SP (A)-11	SP (A)-12	SP (A)-13	SP (A)-14	SP (A)-15	SP (A)-16	SP (A)-17	SP (A)-18	SP (A)-19	SP (A)-20	SP (A)-21	SP (A)-22
Aroclor 1248	<0.38	<0.40	<37	<0.41	<1.8	<2.0	<0.39	<0.38	<0.37	<0.39	<0.36	<0.40	<0.40	<0.40	<0.37	<0.42	<0.36	<0.37	<0.38	<0.37	<0.37	<0.37
Aroclor 1254	<0.38	<0.40	<37	<0.41	<1.8	<2.0	<0.39	<0.38	<0.37	<0.39	<0.36	<0.40	<0.40	<0.40	<0.37	<0.42	<0.36	<0.37	<0.38	<0.37	<0.37	<0.37
Aroclor 1260	<0.38	<0.40	**120**	**1.0**	**9.2**	**7.0**	**1.2**	<0.38	<0.37	**1.0**	<0.36	<0.40	<0.40	**0.53**	<0.37	<0.42	<0.36	**2.3**	**0.64**	<0.37	**1.1**	**1.9**
Total PCBs (mg/kg)	<0.38	<0.40	**120**	**1.0**	**9.2**	**7.0**	**1.2**	<0.38	<0.37	**1.0**	<0.36	<0.40	<0.40	**0.53**	<0.37	<0.42	<0.36	**2.3**	**0.64**	<0.37	**1.1**	**1.9**

Verifcation Samples									
Sample ID	SP (A)-23	SP (A)-24	SP (A)-25	SP (A)-26	SP (A)-27	SP (A)-28	SP (A)-29	SP (A)-30	SP (A)-31
Aroclor 1248	<0.35	<0.36	<0.38	<0.43	<0.45	<0.40	<0.39	<0.43	<0.41
Aroclor 1254	<0.35	<0.36	<0.38	<0.43	<0.45	<0.40	<0.39	<0.43	<0.41
Aroclor 1260	<0.35	<0.36	<0.38	<0.43	<0.45	<0.40	<0.39	<0.43	**2.1**
Total PCBs (mg/kg)	<0.35	<0.36	<0.38	<0.43	<0.45	<0.40	<0.39	<0.43	**2.1**

Notes:
Only those Aroclors detected are reported. All other Aroclor results are non-detect.
Total PCBs is sum of Aroclor concentrations detected.
Depth Below Existing Grade - The measured depth below grade at the sampling point
Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg
Total PCB Concentration ≥10 mg/kg
Total PCB Concentration ≥1 mg/kg
PCBs Detected at Concentration <1 mg/kg
Soil excavated during additional removal actions

Table 3
Additional Soil and Bedrock Samples
Eversource Energy
Berlin Settling Basin
Berlin, Connecticut

Soil Boring Location	2B27								
Sample ID	2B27 (0-0.5)	2B27 (4.5-5)	2B27 (9.5-10)	2B27 (14.5-15)	2B27 (19.5-20)	2B27 (20-20.5)	2B27 (22-22.5)	2B27 (24-24.5)	2B27 (24.5-25)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	20-20.5	22-22.5	24-24.5	24.5-25
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	27-27.5	29-29.5	31-31.5	31.5-32
Aroclor 1248	ND <3.8	ND <40	ND <0.410	ND <0.390	ND <9.50	ND <0.390	ND <0.410	ND <19	ND <0.330
Aroclor 1254	ND <3.8	ND <40	ND <0.410	ND <0.390	ND <9.50	ND <0.390	ND <0.410	ND <19	ND <0.330
Aroclor 1260	1.5	430	ND <0.410	ND <0.390	42	ND <0.390	ND <0.410	88	2.5
Total PCBs (mg/kg)	1.5	430	ND <0.410	ND <0.390	42	ND <0.390	ND <0.410	88	2.5

Soil Boring Location	2B35									
Sample ID	2B35 (0-0.5)	2B35 (4.5-5)	2B35 (9.5-10)	2B35 (14.5-15)	2B35 (19.5-20)	2B35 (20-20.5)	2B35 (22-22.5)	2B35 (24-24.5)	2B35 (24.5-25)	2B35 (26-26.5)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	20-20.5	22-22.5	24-24.5	24.5-25	26-26.5
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	27-27.5	29-29.5	31-31.5	31.5-32	33-33.5
Aroclor 1248	ND <3,900	ND <43	ND <380	ND <2	ND <1.9	ND <0.380	ND <0.470	ND <0.400	ND <0.630	ND <0.670
Aroclor 1254	ND <3,900	ND <43	ND <380	ND <2	ND <1.9	ND <0.380	ND <0.470	ND <0.400	ND <0.630	ND <0.670
Aroclor 1260	6,700	500	2,700	11	3.7	0.92	0.68	ND <0.400	ND <0.630	ND <0.670
Total PCBs (mg/kg)	6,700	500	2,700	11	3.7	0.92	0.68	ND <0.400	ND <0.630	ND <0.670

Soil Boring Location	2B36									
Sample ID	2B36 (0-0.5)	2B36 (4.5-5)	2B36 (9.5-10)	2B36 (14.5-15)	2B36 (19.5-20)	2B36 (20-20.5)	2B36 (22-22.5)	2B36 (24-24.5)	2B36 (24.5-25)	2B36 (26-26.5)
Depth Below Existing Grade (ft)	0-0.5	4.5-5	9.5-10	14.5-15	19.5-20	20-20.5	22-22.5	24-24.5	24.5-25	26-26.5
Relative Depth Below Grade (ft)	7-7.5	11.5-12	16.5-17	21.5-22	26.5-27	27-27.5	29-29.5	31-31.5	31.5-32	33-33.5
Aroclor 1248	ND <1.8	ND <0.420	ND <0.450	ND <380	ND <4.2	ND <0.390	ND <0.380	ND <0.380	ND <0.620	ND <0.640
Aroclor 1254	ND <1.8	ND <0.420	ND <0.450	ND <380	ND <4.2	ND <0.390	ND <0.380	ND <0.380	ND <0.620	ND <0.640
Aroclor 1260	3.0	ND <0.420	ND <0.450	1,600	29	1.2	ND <0.380	1.5	ND <0.620	ND <0.640
Total PCBs (mg/kg)	3.0	ND <0.420	ND <0.450	1,600	29	1.2	ND <0.380	1.5	ND <0.620	ND <0.640

Notes:

Only those Aroclors detected are reported. All other Aroclor results are non-detect.

Total PCBs is sum of Aroclor concentrations determined.

Depth Below Existing Grade - The measured depth below grade at the sampling point

Relative Depth Below Grade - Depth below grade relative to reference point.

Total PCB Concentration ≥50 mg/kg

Total PCB Concentration ≥10 mg/kg

Total PCB Concentration ≥1 mg/kg

PCBs Detected at Concentration <1 mg/kg

Bedrock Samples

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

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APPROVAL

July 27, 2021

Mr. Matthew Calvert
Eversource Energy Services Company
107 Selden Street
Berlin, CT 06037

Re: Post Remediation Groundwater Monitoring Plan
Eversource – Berlin Campus Settling Basin Remediation
107 Selden Street
Berlin, CT 06037
Consent Order (CO) COWSPCB 16-002

Dear Mr. Calvert:

The Corrective Action Unit of the Emergency Response and Spill Prevention Division of the Bureau of Materials Management and Compliance Assurance (BMMCA) has reviewed the document entitled, *Post Remediation Groundwater Monitoring Plan* for Eversource Berlin Campus Settling Basin remediation, dated July 9, 2021 (the Plan) received via email by the BMMCA on July 9, 2021, prepared for Eversource by Weston and Sampson. The Plan was submitted pursuant to paragraph B.1.h of Consent Order # COWSPCB 16-002, issued on December 26, 2018 (the CO). This Plan is a supplemental plan detailing measures for monitoring groundwater after soil remediation was completed.

The Plan is specific to the installation, construction and associated groundwater monitoring of seven monitoring wells within the remediation area. The monitoring wells are proposed to be installed to intersect the top of the groundwater table downgradient of an unnamed stream (four wells), upgradient from the remediation area (one well), on top of the bedrock surface (one well) and one well installed into bedrock and sealed off from the overburden aquifer. The monitoring well sampling will be performed in four consecutive quarters and tested for PCBs, ETPH, PAHs, and RSR Metals.

Based upon the information provided in the Plan, the document fulfills the requirements of B.1.h and is hereby **approved**.

This approval does not relieve Eversource of the obligation to obtain any other authorizations as may be required by Federal, State or Local laws or regulations. Nothing herein precludes DEEP from taking any action or instituting any proceeding should actions to date prove inadequate or for any other appropriate purpose.

If you have any questions regarding the above, please contact Amber Trahan by e-mail amber.trahan@ct.gov or phone at (860) 424-4177.

Sincerely,

Peter Zack

Peter Zack, Director
Emergency Response & Spill
Prevention Division

cc: Kimberly Tisa, US EPA R1 PCB Coordinator

Sent Certified Mail #
Return Receipt Requested

APPENDIX B
PHOTOGRAPHIC DOCUMENTATION

Berlin Settling Basin Remediation Project
Eversource Berlin Campus
Berlin, Connecticut



Photo 1: Aerial photograph of remediation area - construction of stormwater drainage in parking lot



Photo 2: Remediation area within settling basin – view facing east (January 9, 2020)



Photo 3: Installation of new storm sewer – view facing east (May 14, 2020)



Photo 4: Newly constructed drainage outlet structure - view facing west (June 15, 2020)



Photo 5: Installation of storm sewer - view facing east (June 15, 2020)



Photo 6: Aerial view of basin remediation



Photo 7: Storm sewer structures installation - view facing north (June 25, 2020)



Photo 8: Remediation beneath access road - view facing north (August 30, 2020)



Photo 9: Regrading and backfilling of settling basin – view facing west (October 27, 2020)



Photo 10: New pavement in parking lot where storm sewer was installed; backfilling of basin – view facing north



Photo 11: Dewatering system (February 16, 2021)



Photo 12: Sheet pile excavation - Excavation 30 (February 22, 2021)



Photo 13: Backfilling remediation area located beneath access road



Photo 14: Site restoration with newly constructed overflow parking – view facing north



Photo 15: Newly installed wooden fence demarcating Deed Restriction boundary shown in background – view facing southwest (September 9, 2021)

APPENDIX E
DUST MONITORING DATA

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_001
Test Start Time	3:06:20 PM
Test Start Date	6/1/2020
Test Length [D:H:M]	0:01:55
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.005
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.008
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	5

Max Instant Conc.	Max 15 min TWA Conc.
8	0

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6699	0		
6720	0.005		
6780	0.005		
6840	0.008		
6900	0.006		0

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_002
Test Start Time	7:31:27 AM
Test Start Date	6/2/2020
Test Length [D:H:M]	0:23:17
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.013
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.389
Mass TWA [mg/m3]	0.009
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	400

Max Instant Conc.	Max 15 min TWA Conc.
389	58.06666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.01			
120	0.009			
180	0.009			
240	0.009			
300	0.009			
360	0.009			
420	0.009			
480	0.009			
540	0.008			
600	0.01			
660	0.009			
720	0.008			
780	0.008			
840	0.009			
900	0.009			8.933333333
960	0.009			8.866666667
1020	0.009			8.866666667
1080	0.009			8.866666667
1140	0.009			8.866666667
1200	0.009			8.866666667
1260	0.009			8.866666667
1320	0.009			8.866666667
1380	0.009			8.866666667
1440	0.009			8.933333333
1500	0.009			8.866666667
1560	0.009			8.866666667
1620	0.009			8.933333333

1680	0.009	9
1740	0.009	9
1800	0.009	9
1860	0.009	9
1920	0.009	9
1980	0.009	9
2040	0.009	9
2100	0.009	9
2160	0.009	9
2220	0.009	9
2280	0.009	9
2340	0.009	9
2400	0.009	9
2460	0.009	9
2520	0.009	9
2580	0.009	9
2640	0.009	9
2700	0.009	9
2760	0.009	9
2820	0.009	9
2880	0.009	9
2940	0.009	9
3000	0.009	9
3060	0.009	9
3120	0.009	9
3180	0.009	9
3240	0.01	9.066666667
3300	0.009	9.066666667
3360	0.009	9.066666667
3420	0.009	9.066666667
3480	0.009	9.066666667
3540	0.009	9.066666667
3600	0.009	9.066666667
3660	0.009	9.066666667
3720	0.009	9.066666667
3780	0.009	9.066666667
3840	0.009	9.066666667
3900	0.01	9.133333333
3960	0.009	9.133333333
4020	0.009	9.133333333
4080	0.009	9.133333333
4140	0.01	9.133333333
4200	0.009	9.133333333
4260	0.011	9.266666667
4320	0.009	9.266666667
4380	0.011	9.4
4440	0.009	9.4

4500	0.009	9.4
4560	0.009	9.4
4620	0.009	9.4
4680	0.009	9.4
4740	0.009	9.4
4800	0.009	9.333333333
4860	0.009	9.333333333
4920	0.009	9.333333333
4980	0.009	9.333333333
5040	0.009	9.266666667
5100	0.009	9.266666667
5160	0.009	9.133333333
5220	0.009	9.133333333
5280	0.009	9
5340	0.009	9
5400	0.009	9
5460	0.009	9
5520	0.009	9
5580	0.008	8.933333333
5640	0.009	8.933333333
5700	0.009	8.933333333
5760	0.009	8.933333333
5820	0.009	8.933333333
5880	0.009	8.933333333
5940	0.01	9
6000	0.01	9.066666667
6060	0.009	9.066666667
6120	0.009	9.066666667
6180	0.009	9.066666667
6240	0.01	9.133333333
6300	0.01	9.2
6360	0.01	9.266666667
6420	0.01	9.333333333
6480	0.01	9.466666667
6540	0.01	9.533333333
6600	0.009	9.533333333
6660	0.009	9.533333333
6720	0.01	9.6
6780	0.009	9.6
6840	0.009	9.533333333
6900	0.01	9.533333333
6960	0.01	9.6
7020	0.01	9.666666667
7080	0.01	9.733333333
7140	0.01	9.733333333
7200	0.011	9.8
7260	0.01	9.8

7320	0.01	9.8
7380	0.01	9.8
7440	0.01	9.8
7500	0.01	9.866666667
7560	0.011	10
7620	0.01	10
7680	0.01	10.06666667
7740	0.01	10.13333333
7800	0.01	10.13333333
7860	0.01	10.13333333
7920	0.01	10.13333333
7980	0.01	10.13333333
8040	0.01	10.13333333
8100	0.01	10.06666667
8160	0.01	10.06666667
8220	0.01	10.06666667
8280	0.01	10.06666667
8340	0.01	10.06666667
8400	0.01	10.06666667
8460	0.011	10.06666667
8520	0.01	10.06666667
8580	0.012	10.2
8640	0.012	10.33333333
8700	0.011	10.4
8760	0.011	10.46666667
8820	0.011	10.53333333
8880	0.011	10.6
8940	0.01	10.6
9000	0.01	10.6
9060	0.01	10.6
9120	0.01	10.6
9180	0.01	10.6
9240	0.01	10.6
9300	0.011	10.66666667
9360	0.01	10.6
9420	0.012	10.73333333
9480	0.011	10.66666667
9540	0.011	10.6
9600	0.01	10.53333333
9660	0.011	10.53333333
9720	0.011	10.53333333
9780	0.011	10.53333333
9840	0.011	10.6
9900	0.01	10.6
9960	0.01	10.6
10020	0.01	10.6
10080	0.011	10.66666667

10140	0.011	10.73333333
10200	0.014	10.93333333
10260	0.01	10.93333333
10320	0.012	10.93333333
10380	0.015	11.2
10440	0.011	11.2
10500	0.011	11.26666667
10560	0.012	11.33333333
10620	0.011	11.33333333
10680	0.01	11.26666667
10740	0.011	11.26666667
10800	0.011	11.33333333
10860	0.011	11.4
10920	0.011	11.46666667
10980	0.011	11.46666667
11040	0.011	11.46666667
11100	0.011	11.26666667
11160	0.011	11.33333333
11220	0.011	11.26666667
11280	0.011	11
11340	0.01	10.93333333
11400	0.011	10.93333333
11460	0.012	10.93333333
11520	0.012	11
11580	0.012	11.13333333
11640	0.011	11.13333333
11700	0.011	11.13333333
11760	0.011	11.13333333
11820	0.011	11.13333333
11880	0.011	11.13333333
11940	0.011	11.13333333
12000	0.014	11.33333333
12060	0.011	11.33333333
12120	0.012	11.4
12180	0.011	11.4
12240	0.011	11.46666667
12300	0.011	11.46666667
12360	0.01	11.33333333
12420	0.011	11.26666667
12480	0.011	11.2
12540	0.011	11.2
12600	0.011	11.2
12660	0.011	11.2
12720	0.011	11.2
12780	0.011	11.2
12840	0.012	11.26666667
12900	0.011	11.06666667

12960	0.011	11.06666667
13020	0.011	11
13080	0.011	11
13140	0.011	11
13200	0.011	11
13260	0.011	11.06666667
13320	0.011	11.06666667
13380	0.011	11.06666667
13440	0.011	11.06666667
13500	0.011	11.06666667
13560	0.011	11.06666667
13620	0.011	11.06666667
13680	0.011	11.06666667
13740	0.011	11
13800	0.011	11
13860	0.011	11
13920	0.012	11.06666667
13980	0.012	11.13333333
14040	0.012	11.2
14100	0.012	11.26666667
14160	0.012	11.33333333
14220	0.012	11.4
14280	0.012	11.46666667
14340	0.012	11.53333333
14400	0.012	11.6
14460	0.012	11.66666667
14520	0.012	11.73333333
14580	0.012	11.8
14640	0.012	11.86666667
14700	0.012	11.93333333
14760	0.012	12
14820	0.012	12
14880	0.012	12
14940	0.012	12
15000	0.012	12
15060	0.012	12
15120	0.012	12
15180	0.011	11.93333333
15240	0.011	11.86666667
15300	0.011	11.8
15360	0.011	11.73333333
15420	0.011	11.66666667
15480	0.013	11.73333333
15540	0.011	11.66666667
15600	0.011	11.6
15660	0.011	11.53333333
15720	0.011	11.46666667

15780	0.011	11.4
15840	0.012	11.4
15900	0.011	11.33333333
15960	0.011	11.26666667
16020	0.012	11.26666667
16080	0.012	11.33333333
16140	0.011	11.33333333
16200	0.015	11.6
16260	0.011	11.6
16320	0.011	11.6
16380	0.012	11.53333333
16440	0.013	11.66666667
16500	0.011	11.66666667
16560	0.013	11.8
16620	0.012	11.86666667
16680	0.012	11.93333333
16740	0.012	11.93333333
16800	0.012	12
16860	0.012	12.06666667
16920	0.012	12.06666667
16980	0.015	12.26666667
17040	0.013	12.4
17100	0.012	12.2
17160	0.012	12.26666667
17220	0.013	12.4
17280	0.012	12.4
17340	0.012	12.33333333
17400	0.012	12.4
17460	0.012	12.33333333
17520	0.014	12.46666667
17580	0.012	12.46666667
17640	0.011	12.4
17700	0.012	12.4
17760	0.012	12.4
17820	0.011	12.33333333
17880	0.011	12.06666667
17940	0.011	11.93333333
18000	0.012	11.93333333
18060	0.012	11.93333333
18120	0.012	11.86666667
18180	0.012	11.86666667
18240	0.013	11.93333333
18300	0.012	11.93333333
18360	0.011	11.86666667
18420	0.012	11.73333333
18480	0.012	11.73333333
18540	0.012	11.8

18600	0.012	11.8
18660	0.013	11.86666667
18720	0.014	12.06666667
18780	0.013	12.2
18840	0.013	12.33333333
18900	0.013	12.4
18960	0.013	12.46666667
19020	0.012	12.46666667
19080	0.012	12.46666667
19140	0.012	12.4
19200	0.012	12.4
19260	0.013	12.53333333
19320	0.012	12.53333333
19380	0.012	12.53333333
19440	0.013	12.6
19500	0.013	12.66666667
19560	0.013	12.66666667
19620	0.012	12.53333333
19680	0.013	12.53333333
19740	0.014	12.6
19800	0.013	12.6
19860	0.013	12.6
19920	0.014	12.73333333
19980	0.013	12.8
20040	0.013	12.86666667
20100	0.012	12.86666667
20160	0.012	12.8
20220	0.012	12.8
20280	0.012	12.8
20340	0.012	12.73333333
20400	0.012	12.66666667
20460	0.013	12.66666667
20520	0.012	12.66666667
20580	0.013	12.66666667
20640	0.013	12.6
20700	0.013	12.6
20760	0.013	12.6
20820	0.013	12.53333333
20880	0.013	12.53333333
20940	0.013	12.53333333
21000	0.013	12.6
21060	0.013	12.66666667
21120	0.012	12.66666667
21180	0.012	12.66666667
21240	0.012	12.66666667
21300	0.013	12.73333333
21360	0.017	13

21420	0.016	13.26666667
21480	0.012	13.2
21540	0.012	13.13333333
21600	0.012	13.06666667
21660	0.012	13
21720	0.013	13
21780	0.012	12.93333333
21840	0.012	12.86666667
21900	0.012	12.8
21960	0.012	12.73333333
22020	0.012	12.73333333
22080	0.012	12.73333333
22140	0.012	12.73333333
22200	0.062	16
22260	0.076	19.93333333
22320	0.014	19.8
22380	0.017	20.13333333
22440	0.012	20.13333333
22500	0.012	20.13333333
22560	0.011	20.06666667
22620	0.012	20
22680	0.011	19.93333333
22740	0.014	20.06666667
22800	0.015	20.26666667
22860	0.014	20.4
22920	0.015	20.6
22980	0.012	20.6
23040	0.012	20.6
23100	0.015	17.46666667
23160	0.017	13.53333333
23220	0.012	13.4
23280	0.018	13.46666667
23340	0.023	14.2
23400	0.015	14.4
23460	0.013	14.53333333
23520	0.015	14.73333333
23580	0.017	15.13333333
23640	0.012	15
23700	0.012	14.8
23760	0.012	14.66666667
23820	0.012	14.46666667
83750	0	13.66666667
83760	0.389	38.8
83820	0.304	58.06666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_003
Test Start Time	6:50:43 AM
Test Start Date	6/3/2020
Test Length [D:H:M]	0:07:08
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.021
Mass Minimum [mg/m3]	0.015
Mass Maximum [mg/m3]	0.087
Mass TWA [mg/m3]	0.019
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	428

Max Instant Conc.	Max 15 min TWA Conc.
87	21.08276973

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.017			
120	0.017			
180	0.017			
240	0.016			
300	0.017			
360	0.016			
420	0.017			
480	0.017			
540	0.017			
600	0.018			
660	0.018			
720	0.016			
780	0.016			
840	0.018			
900	0.019			17.06666667
960	0.018			17.13333333
1020	0.019			17.26666667
1080	0.019			17.4
1140	0.018			17.53333333
1200	0.018			17.6
1260	0.018			17.73333333
1320	0.018			17.8
1380	0.018			17.86666667
1440	0.018			17.93333333
1500	0.019			18
1560	0.018			18
1620	0.019			18.2

1680	0.019	18.4
1740	0.019	18.46666667
1800	0.018	18.4
1860	0.018	18.4
1920	0.018	18.33333333
1980	0.018	18.26666667
2040	0.018	18.26666667
2100	0.018	18.26666667
2160	0.019	18.33333333
2220	0.019	18.4
2280	0.018	18.4
2340	0.018	18.4
2400	0.018	18.33333333
2460	0.018	18.33333333
2520	0.018	18.26666667
2580	0.018	18.2
2640	0.018	18.13333333
2700	0.018	18.13333333
2760	0.018	18.13333333
2820	0.018	18.13333333
2880	0.017	18.06666667
2940	0.017	18
3000	0.018	18
3060	0.018	17.93333333
3120	0.018	17.86666667
3180	0.018	17.86666667
3240	0.017	17.8
3300	0.018	17.8
3360	0.017	17.73333333
3420	0.018	17.73333333
3480	0.016	17.6
3540	0.02	17.73333333
3600	0.018	17.73333333
3660	0.015	17.53333333
3720	0.032	18.46666667
3780	0.034	19.6
3840	0.015	19.46666667
3900	0.019	19.53333333
3960	0.015	19.33333333
4020	0.015	19.13333333
4080	0.016	19
4140	0.015	18.86666667
4200	0.015	18.66666667
4260	0.015	18.53333333
4320	0.015	18.33333333
4380	0.015	18.26666667
4440	0.036	19.33333333

4500	0.015	19.13333333
4560	0.015	19.13333333
4620	0.015	18
4680	0.015	16.73333333
4740	0.015	16.73333333
4800	0.017	16.6
4860	0.017	16.73333333
4920	0.016	16.8
4980	0.016	16.8
5040	0.019	17.06666667
5100	0.015	17.06666667
5160	0.015	17.06666667
5220	0.016	17.13333333
5280	0.015	17.13333333
5340	0.019	16
5400	0.015	16
5460	0.017	16.13333333
5520	0.016	16.2
5580	0.016	16.26666667
5640	0.016	16.33333333
5700	0.016	16.26666667
5760	0.015	16.13333333
5820	0.015	16.06666667
5880	0.016	16.06666667
5940	0.016	15.86666667
6000	0.015	15.86666667
6060	0.017	16
6120	0.016	16
6180	0.016	16.06666667
6240	0.017	15.93333333
6300	0.016	16
6360	0.017	16
6420	0.02	16.26666667
6480	0.016	16.26666667
6540	0.016	16.26666667
6600	0.016	16.26666667
6660	0.017	16.4
6720	0.016	16.46666667
6780	0.016	16.46666667
6840	0.016	16.46666667
6900	0.016	16.53333333
6960	0.016	16.46666667
7020	0.016	16.46666667
7080	0.016	16.46666667
7140	0.016	16.4
7200	0.017	16.46666667
7260	0.017	16.46666667

7320	0.018	16.33333333
7380	0.017	16.4
7440	0.017	16.46666667
7500	0.018	16.6
7560	0.02	16.8
7620	0.017	16.86666667
7680	0.019	17.06666667
7740	0.017	17.13333333
7800	0.017	17.2
7860	0.017	17.26666667
7920	0.017	17.33333333
7980	0.017	17.4
8040	0.018	17.53333333
8100	0.017	17.53333333
8160	0.018	17.6
8220	0.017	17.53333333
8280	0.017	17.53333333
8340	0.017	17.53333333
8400	0.017	17.46666667
8460	0.017	17.26666667
8520	0.017	17.26666667
8580	0.017	17.13333333
8640	0.02	17.33333333
8700	0.017	17.33333333
8760	0.017	17.33333333
8820	0.019	17.46666667
8880	0.022	17.8
8940	0.018	17.8
9000	0.017	17.8
9060	0.018	17.8
9120	0.02	18
9180	0.018	18.06666667
9240	0.017	18.06666667
9300	0.025	18.6
9360	0.018	18.66666667
9420	0.018	18.73333333
9480	0.019	18.86666667
9540	0.021	18.93333333
9600	0.019	19.06666667
9660	0.02	19.26666667
9720	0.019	19.26666667
9780	0.023	19.33333333
9840	0.019	19.4
9900	0.018	19.46666667
9960	0.018	19.46666667
10020	0.019	19.4
10080	0.019	19.46666667

10140	0.019	19.6
10200	0.02	19.26666667
10260	0.021	19.46666667
10320	0.019	19.53333333
10380	0.019	19.53333333
10440	0.019	19.4
10500	0.023	19.66666667
10560	0.02	19.66666667
10620	0.02	19.73333333
10680	0.019	19.46666667
10740	0.019	19.46666667
10800	0.018	19.46666667
10860	0.019	19.53333333
10920	0.018	19.46666667
10980	0.02	19.53333333
11040	0.019	19.53333333
11100	0.019	19.46666667
11160	0.019	19.33333333
11220	0.02	19.4
11280	0.02	19.46666667
11340	0.019	19.46666667
11400	0.019	19.2
11460	0.019	19.13333333
11520	0.019	19.06666667
11580	0.021	19.2
11640	0.028	19.8
11700	0.019	19.86666667
11760	0.02	19.93333333
11820	0.022	20.2
11880	0.021	20.26666667
11940	0.034	21.26666667
12000	0.028	21.86666667
12060	0.019	21.86666667
12120	0.019	21.8
12180	0.019	21.73333333
12240	0.019	21.73333333
12300	0.019	21.73333333
12360	0.019	21.73333333
12420	0.02	21.8
12480	0.019	21.66666667
12540	0.02	21.13333333
12600	0.02	21.2
12660	0.02	21.2
12720	0.022	21.2
12780	0.032	21.93333333
12840	0.021	21.06666667
12900	0.021	20.6

12960	0.02	20.66666667
13020	0.026	21.13333333
13080	0.033	22.06666667
13140	0.033	23
13200	0.021	23.13333333
13260	0.02	23.2
13320	0.02	23.2
13380	0.025	23.6
13440	0.022	23.73333333
13500	0.023	23.93333333
13560	0.02	23.93333333
13620	0.02	23.8
13680	0.026	23.4
13740	0.022	23.46666667
13800	0.02	23.4
13860	0.028	23.93333333
13920	0.025	23.86666667
13980	0.033	23.86666667
14040	0.024	23.26666667
14100	0.021	23.26666667
14160	0.022	23.4
14220	0.022	23.53333333
14280	0.021	23.26666667
14340	0.024	23.4
14400	0.032	24
14460	0.025	24.33333333
14520	0.021	24.4
14580	0.021	24.06666667
14640	0.021	24
14700	0.021	24.06666667
14760	0.022	23.66666667
14820	0.021	23.4
14880	0.021	22.6
14940	0.021	22.4
15000	0.023	22.53333333
15060	0.021	22.46666667
15120	0.024	22.6
15180	0.087	27
15240	0.025	27.06666667
15300	0.023	26.46666667
15360	0.021	26.2
15420	0.026	26.53333333
15480	0.022	26.6
15540	0.022	26.66666667
15600	0.022	26.73333333
15660	0.022	26.73333333
15720	0.022	26.8

15780	0.022	26.86666667
15840	0.022	26.93333333
15900	0.022	26.86666667
15960	0.022	26.93333333
16020	0.026	27.06666667
16080	0.022	22.73333333
16140	0.026	22.8
16200	0.022	22.73333333
16260	0.027	23.13333333
16320	0.022	22.86666667
16380	0.023	22.93333333
16440	0.031	23.53333333
16500	0.022	23.53333333
16560	0.024	23.66666667
16620	0.021	23.6
16680	0.025	23.8
16740	0.026	24.06666667
16800	0.022	24.06666667
16860	0.023	24.13333333
16920	0.024	24
16980	0.022	24
17040	0.022	23.73333333
17100	0.022	23.73333333
17160	0.022	23.4
17220	0.022	23.4
17280	0.022	23.33333333
17340	0.022	22.73333333
17400	0.022	22.73333333
17460	0.022	22.6
17520	0.022	22.66666667
17580	0.023	22.53333333
17640	0.025	22.46666667
17700	0.022	22.46666667
17760	0.022	22.4
17820	0.022	22.26666667
17880	0.022	22.26666667
17940	0.022	22.26666667
18000	0.022	22.26666667
18060	0.022	22.26666667
18120	0.022	22.26666667
18180	0.023	22.33333333
18240	0.022	22.33333333
18300	0.022	22.33333333
18360	0.022	22.33333333
18420	0.022	22.33333333
18480	0.023	22.33333333
18540	0.023	22.2

18600	0.022	22.2
18660	0.022	22.2
18720	0.029	22.66666667
18780	0.025	22.86666667
18840	0.023	22.93333333
18900	0.022	22.93333333
18960	0.023	23
19020	0.023	23.06666667
19080	0.023	23.06666667
19140	0.023	23.13333333
19200	0.023	23.2
19260	0.023	23.26666667
19320	0.023	23.33333333
19380	0.023	23.33333333
19440	0.023	23.33333333
19500	0.023	23.4
19560	0.023	23.46666667
19620	0.023	23.06666667
19680	0.023	22.93333333
19740	0.023	22.93333333
19800	0.023	23
19860	0.023	23
19920	0.023	23
19980	0.023	23
20040	0.023	23
20100	0.023	23
20160	0.023	23
20220	0.023	23
20280	0.023	23
20340	0.023	23
20400	0.023	23
20460	0.023	23
20520	0.023	23
20580	0.023	23
20640	0.024	23.06666667
20700	0.023	23.06666667
20760	0.023	23.06666667
20820	0.024	23.13333333
20880	0.023	23.13333333
20940	0.023	23.13333333
21000	0.023	23.13333333
21060	0.023	23.13333333
21120	0.045	24.6
21180	0.023	24.6
21240	0.023	24.6
21300	0.024	24.66666667
21360	0.023	24.66666667

21420	0.023	24.66666667
21480	0.023	24.66666667
21540	0.024	24.66666667
21600	0.023	24.66666667
21660	0.023	24.66666667
21720	0.023	24.6
21780	0.023	24.6
21840	0.023	24.6
21900	0.024	24.66666667
21960	0.024	24.73333333
22020	0.023	23.26666667
22080	0.023	23.26666667
22140	0.023	23.26666667
22200	0.023	23.2
22260	0.023	23.2
22320	0.023	23.2
22380	0.023	23.2
22440	0.023	23.13333333
22500	0.023	23.13333333
22560	0.023	23.13333333
22620	0.023	23.13333333
22680	0.023	23.13333333
22740	0.024	23.2
22800	0.024	23.2
22860	0.024	23.2
22920	0.025	23.33333333
22980	0.025	23.46666667
23040	0.029	23.86666667
23100	0.026	24.06666667
23160	0.025	24.2
23220	0.026	24.4
23280	0.024	24.46666667
23340	0.024	24.53333333
23400	0.024	24.6
23460	0.024	24.66666667
23520	0.024	24.73333333
23580	0.024	24.8
23640	0.024	24.8
23700	0.024	24.8
23760	0.025	24.86666667
23820	0.025	24.86666667
23880	0.025	24.86666667
23940	0.025	24.6
24000	0.024	24.46666667
24060	0.025	24.46666667
24120	0.025	24.4
24180	0.025	24.46666667

24240	0.025	24.53333333
24300	0.025	24.6
24360	0.025	24.66666667
24420	0.025	24.73333333
24480	0.024	24.73333333
24540	0.024	24.73333333
24600	0.024	24.73333333
24660	0.024	24.66666667
24720	0.025	24.66666667
24780	0.026	24.73333333
24840	0.024	24.66666667
24900	0.024	24.66666667
24960	0.025	24.66666667
25020	0.025	24.66666667
25080	0.025	24.66666667
25140	0.025	24.66666667
25200	0.025	24.66666667
25260	0.025	24.66666667
25320	0.025	24.66666667
25380	0.025	24.73333333
25440	0.025	24.8
25500	0.025	24.86666667
25560	0.025	24.93333333
25620	0.026	25
25680	0.026	25

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_004
Test Start Time	11:19:34 AM
Test Start Date	6/4/2020
Test Length [D:H:M]	0:03:06
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.019
Mass Maximum [mg/m3]	0.043
Mass TWA [mg/m3]	0.009
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	186

Max Instant Conc.	Max 15 min TWA Conc.
43	28.33333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.024			
120	0.025			
180	0.025			
240	0.026			
300	0.025			
360	0.027			
420	0.024			
480	0.022			
540	0.025			
600	0.022			
660	0.022			
720	0.022			
780	0.023			
840	0.024			
900	0.026			24.13333333
960	0.026			24.26666667
1020	0.026			24.33333333
1080	0.026			24.4
1140	0.029			24.6
1200	0.026			24.66666667
1260	0.031			24.93333333
1320	0.028			25.2
1380	0.034			26
1440	0.043			27.2
1500	0.026			27.46666667
1560	0.026			27.73333333
1620	0.026			28

1680	0.026	28.2
1740	0.026	28.33333333
1800	0.026	28.33333333
1860	0.024	28.2
1920	0.024	28.06666667
1980	0.025	28
2040	0.026	27.8
2100	0.026	27.8
2160	0.026	27.46666667
2220	0.025	27.26666667
2280	0.025	26.66666667
2340	0.025	25.46666667
2400	0.026	25.46666667
2460	0.026	25.46666667
2520	0.026	25.46666667
2580	0.025	25.4
2640	0.025	25.33333333
2700	0.025	25.26666667
2760	0.024	25.26666667
2820	0.025	25.33333333
2880	0.025	25.33333333
2940	0.026	25.33333333
3000	0.024	25.2
3060	0.024	25.06666667
3120	0.024	25
3180	0.025	25
3240	0.025	25
3300	0.024	24.86666667
3360	0.024	24.73333333
3420	0.025	24.66666667
3480	0.025	24.66666667
3540	0.025	24.66666667
3600	0.025	24.66666667
3660	0.028	24.93333333
3720	0.025	24.93333333
3780	0.025	24.93333333
3840	0.025	24.86666667
3900	0.024	24.86666667
3960	0.025	24.93333333
4020	0.023	24.86666667
4080	0.022	24.66666667
4140	0.022	24.46666667
4200	0.022	24.33333333
4260	0.023	24.26666667
4320	0.023	24.13333333
4380	0.022	23.93333333
4440	0.021	23.66666667

4500	0.021	23.4
4560	0.021	22.93333333
4620	0.023	22.8
4680	0.021	22.53333333
4740	0.021	22.26666667
4800	0.021	22.06666667
4860	0.022	21.86666667
4920	0.023	21.86666667
4980	0.021	21.8
5040	0.021	21.73333333
5100	0.021	21.66666667
5160	0.021	21.53333333
5220	0.021	21.4
5280	0.021	21.33333333
5340	0.021	21.33333333
5400	0.02	21.26666667
5460	0.02	21.2
5520	0.02	21
5580	0.02	20.93333333
5640	0.02	20.86666667
5700	0.02	20.8
5760	0.02	20.66666667
5820	0.021	20.53333333
5880	0.02	20.46666667
5940	0.02	20.4
6000	0.021	20.4
6060	0.021	20.4
6120	0.02	20.33333333
6180	0.021	20.33333333
6240	0.02	20.26666667
6300	0.021	20.33333333
6360	0.021	20.4
6420	0.021	20.46666667
6480	0.021	20.53333333
6540	0.02	20.53333333
6600	0.021	20.6
6660	0.021	20.66666667
6720	0.021	20.66666667
6780	0.021	20.73333333
6840	0.021	20.8
6900	0.021	20.8
6960	0.021	20.8
7020	0.021	20.86666667
7080	0.02	20.8
7140	0.02	20.8
7200	0.02	20.73333333
7260	0.021	20.73333333

7320	0.02	20.66666667
7380	0.02	20.6
7440	0.02	20.6
7500	0.021	20.6
7560	0.02	20.53333333
7620	0.02	20.46666667
7680	0.02	20.4
7740	0.02	20.33333333
7800	0.02	20.26666667
7860	0.02	20.2
7920	0.019	20.06666667
7980	0.02	20.06666667
8040	0.02	20.06666667
8100	0.02	20.06666667
8160	0.02	20
8220	0.02	20
8280	0.02	20
8340	0.02	20
8400	0.02	19.93333333
8460	0.02	19.93333333
8520	0.021	20
8580	0.021	20.06666667
8640	0.02	20.06666667
8700	0.023	20.26666667
8760	0.02	20.26666667
8820	0.021	20.4
8880	0.02	20.4
8940	0.02	20.4
9000	0.021	20.46666667
9060	0.021	20.53333333
9120	0.021	20.6
9180	0.021	20.66666667
9240	0.021	20.73333333
9300	0.021	20.8
9360	0.022	20.93333333
9420	0.021	20.93333333
9480	0.021	20.93333333
9540	0.021	21
9600	0.021	20.86666667
9660	0.021	20.93333333
9720	0.021	20.93333333
9780	0.02	20.93333333
9840	0.021	21
9900	0.02	20.93333333
9960	0.02	20.86666667
10020	0.02	20.8
10080	0.021	20.8

10140	0.021	20.8
10200	0.02	20.73333333
10260	0.02	20.6
10320	0.02	20.53333333
10380	0.02	20.46666667
10440	0.02	20.4
10500	0.02	20.33333333
10560	0.02	20.26666667
10620	0.021	20.26666667
10680	0.02	20.26666667
10740	0.021	20.26666667
10800	0.021	20.33333333
10860	0.021	20.4
10920	0.021	20.46666667
10980	0.021	20.46666667
11040	0.021	20.46666667
11100	0.021	20.53333333
11160	0.021	20.6

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_005
Test Start Time	8:44:02 AM
Test Start Date	6/8/2020
Test Length [D:H:M]	0:07:44
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.009
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.013
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	72

Max Instant Conc.	Max 15 min TWA Conc.
13	9.933333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.008			
120	0.006			
180	0.007			
240	0.007			
300	0.007			
360	0.007			
420	0.006			
480	0.007			
540	0.007			
600	0.007			
660	0.007			
720	0.007			
780	0.007			
840	0.007			
900	0.009			7.066666667
960	0.009			7.133333333
1020	0.007			7.2
1080	0.007			7.2
1140	0.008			7.266666667
1200	0.008			7.333333333
1260	0.008			7.4
1320	0.008			7.533333333
1380	0.009			7.666666667
1440	0.008			7.733333333
1500	0.008			7.8
1560	0.008			7.866666667
1620	0.009			8

1680	0.01	8.2
1740	0.008	8.266666667
1800	0.008	8.2
1860	0.008	8.133333333
1920	0.009	8.266666667
1980	0.01	8.466666667
2040	0.009	8.533333333
2100	0.008	8.533333333
2160	0.009	8.6
2220	0.012	8.866666667
2280	0.009	8.866666667
2340	0.009	8.933333333
2400	0.008	8.933333333
2460	0.008	8.933333333
2520	0.008	8.866666667
2580	0.01	8.866666667
2640	0.008	8.866666667
2700	0.009	8.933333333
2760	0.009	9
2820	0.009	9
2880	0.009	8.933333333
2940	0.009	8.933333333
3000	0.009	9
3060	0.009	9
3120	0.009	8.8
3180	0.009	8.8
3240	0.013	9.066666667
3300	0.009	9.133333333
3360	0.01	9.266666667
3420	0.009	9.333333333
3480	0.009	9.266666667
3540	0.01	9.4
3600	0.009	9.4
3660	0.01	9.466666667
3720	0.009	9.466666667
3780	0.01	9.533333333
3840	0.01	9.6
3900	0.009	9.6
3960	0.011	9.733333333
4020	0.01	9.8
4080	0.011	9.933333333
4140	0.01	9.733333333
4200	0.01	9.8
4260	0.011	9.866666667
27868	0	9.266666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_006
Test Start Time	9:40:14 AM
Test Start Date	6/9/2020
Test Length [D:H:M]	0:05:24
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.013
Mass Minimum [mg/m3]	0.008
Mass Maximum [mg/m3]	0.064
Mass TWA [mg/m3]	0.009
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	324

Max Instant Conc.	Max 15 min TWA Conc.
64	21.13333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.013			
120	0.008			
180	0.008			
240	0.008			
300	0.008			
360	0.009			
420	0.008			
480	0.01			
540	0.011			
600	0.011			
660	0.01			
720	0.009			
780	0.009			
840	0.01			
900	0.009			9.4
960	0.01			9.2
1020	0.01			9.333333333
1080	0.009			9.4
1140	0.012			9.666666667
1200	0.01			9.8
1260	0.011			9.933333333
1320	0.014			10.33333333
1380	0.01			10.33333333
1440	0.015			10.6
1500	0.012			10.66666667
1560	0.01			10.66666667
1620	0.01			10.73333333

1680	0.012	10.93333333
1740	0.017	11.4
1800	0.016	11.86666667
1860	0.015	12.2
1920	0.01	12.2
1980	0.01	12.26666667
2040	0.012	12.26666667
2100	0.013	12.46666667
2160	0.01	12.4
2220	0.01	12.13333333
2280	0.01	12.13333333
2340	0.011	11.86666667
2400	0.011	11.8
2460	0.011	11.86666667
2520	0.011	11.93333333
2580	0.01	11.8
2640	0.01	11.33333333
2700	0.011	11
2760	0.01	10.66666667
2820	0.011	10.73333333
2880	0.012	10.86666667
2940	0.016	11.13333333
3000	0.014	11.2
3060	0.023	12.06666667
3120	0.024	13
3180	0.014	13.26666667
3240	0.014	13.46666667
3300	0.015	13.73333333
3360	0.012	13.8
3420	0.01	13.73333333
3480	0.011	13.8
3540	0.011	13.86666667
3600	0.011	13.86666667
3660	0.011	13.93333333
3720	0.011	13.93333333
3780	0.011	13.86666667
3840	0.011	13.53333333
3900	0.011	13.33333333
3960	0.011	12.53333333
4020	0.011	11.66666667
4080	0.011	11.46666667
4140	0.011	11.26666667
4200	0.011	11
4260	0.011	10.93333333
4320	0.011	11
4380	0.011	11
4440	0.011	11

4500	0.011	11
4560	0.01	10.93333333
4620	0.01	10.86666667
4680	0.011	10.86666667
4740	0.011	10.86666667
4800	0.011	10.86666667
4860	0.011	10.86666667
4920	0.011	10.86666667
4980	0.011	10.86666667
5040	0.011	10.86666667
5100	0.011	10.86666667
5160	0.011	10.86666667
5220	0.011	10.86666667
5280	0.011	10.86666667
5340	0.011	10.86666667
5400	0.011	10.86666667
5460	0.011	10.93333333
5520	0.011	11
5580	0.011	11
5640	0.012	11.06666667
5700	0.011	11.06666667
5760	0.011	11.06666667
5820	0.012	11.13333333
5880	0.012	11.2
5940	0.012	11.26666667
6000	0.012	11.33333333
6060	0.012	11.4
6120	0.012	11.46666667
6180	0.012	11.53333333
6240	0.012	11.6
6300	0.012	11.66666667
6360	0.013	11.8
6420	0.011	11.8
6480	0.012	11.86666667
6540	0.016	12.13333333
6600	0.012	12.2
6660	0.012	12.26666667
6720	0.012	12.26666667
6780	0.012	12.26666667
6840	0.012	12.26666667
6900	0.014	12.4
6960	0.027	13.4
7020	0.022	14.06666667
7080	0.013	14.13333333
7140	0.012	14.13333333
7200	0.012	14.13333333
7260	0.012	14.06666667

7320	0.012	14.13333333
7380	0.013	14.2
7440	0.024	14.73333333
7500	0.015	14.93333333
7560	0.019	15.4
7620	0.012	15.4
7680	0.012	15.4
7740	0.012	15.4
7800	0.013	15.33333333
7860	0.014	14.46666667
7920	0.013	13.86666667
7980	0.011	13.73333333
8040	0.012	13.73333333
8100	0.018	14.13333333
8160	0.015	14.33333333
8220	0.011	14.26666667
8280	0.011	14.13333333
8340	0.013	13.4
8400	0.011	13.13333333
8460	0.012	12.66666667
8520	0.012	12.66666667
8580	0.014	12.8
8640	0.013	12.86666667
8700	0.012	12.8
8760	0.012	12.66666667
8820	0.012	12.6
8880	0.012	12.66666667
8940	0.014	12.8
9000	0.013	12.46666667
9060	0.013	12.33333333
9120	0.013	12.46666667
9180	0.013	12.6
9240	0.012	12.53333333
9300	0.012	12.6
9360	0.012	12.6
9420	0.017	12.93333333
9480	0.029	13.93333333
9540	0.014	14
9600	0.012	14
9660	0.012	14
9720	0.012	14
9780	0.036	15.6
9840	0.012	15.46666667
9900	0.012	15.4
9960	0.012	15.33333333
10020	0.012	15.26666667
10080	0.013	15.26666667

10140	0.017	15.6
10200	0.014	15.73333333
10260	0.02	16.26666667
10320	0.013	16
10380	0.012	14.86666667
10440	0.016	15
10500	0.012	15
10560	0.012	15
10620	0.011	14.93333333
10680	0.012	13.33333333
10740	0.011	13.26666667
10800	0.012	13.26666667
10860	0.011	13.2
10920	0.015	13.4
10980	0.012	13.33333333
11040	0.012	13
11100	0.012	12.86666667
11160	0.012	12.33333333
11220	0.012	12.26666667
11280	0.012	12.26666667
11340	0.012	12
11400	0.012	12
11460	0.013	12.06666667
11520	0.012	12.13333333
11580	0.012	12.13333333
11640	0.013	12.26666667
11700	0.013	12.33333333
11760	0.012	12.4
11820	0.012	12.2
11880	0.012	12.2
11940	0.012	12.2
12000	0.012	12.2
12060	0.013	12.26666667
12120	0.014	12.4
12180	0.015	12.6
12240	0.012	12.6
12300	0.013	12.66666667
12360	0.012	12.6
12420	0.012	12.6
12480	0.011	12.53333333
12540	0.012	12.46666667
12600	0.012	12.4
12660	0.013	12.46666667
12720	0.012	12.46666667
12780	0.012	12.46666667
12840	0.012	12.46666667
12900	0.024	13.26666667

12960	0.015	13.4
13020	0.013	13.33333333
13080	0.013	13.2
13140	0.013	13.26666667
13200	0.013	13.26666667
13260	0.012	13.26666667
13320	0.012	13.26666667
13380	0.017	13.66666667
13440	0.016	13.93333333
13500	0.014	14.06666667
13560	0.013	14.06666667
13620	0.013	14.13333333
13680	0.015	14.33333333
13740	0.012	14.33333333
13800	0.012	13.53333333
13860	0.012	13.33333333
13920	0.037	14.93333333
13980	0.013	14.93333333
14040	0.012	14.86666667
14100	0.012	14.8
14160	0.012	14.8
14220	0.012	14.8
14280	0.012	14.46666667
14340	0.011	14.13333333
14400	0.012	14
14460	0.012	13.93333333
14520	0.011	13.8
14580	0.017	13.93333333
14640	0.011	13.86666667
14700	0.012	13.86666667
14760	0.015	14.06666667
14820	0.033	13.8
14880	0.014	13.86666667
14940	0.015	14.06666667
15000	0.015	14.26666667
15060	0.012	14.26666667
15120	0.012	14.26666667
15180	0.012	14.26666667
15240	0.012	14.33333333
15300	0.012	14.33333333
15360	0.012	14.33333333
15420	0.022	15.06666667
15480	0.014	14.86666667
15540	0.013	15
15600	0.012	15
15660	0.012	14.8
15720	0.013	13.46666667

15780	0.022	14
15840	0.012	13.8
15900	0.012	13.6
15960	0.012	13.6
16020	0.012	13.6
16080	0.013	13.66666667
16140	0.013	13.73333333
16200	0.012	13.73333333
16260	0.013	13.8
16320	0.012	13.13333333
16380	0.029	14.13333333
16440	0.017	14.4
16500	0.015	14.6
16560	0.013	14.66666667
16620	0.014	14.73333333
16680	0.013	14.13333333
16740	0.013	14.2
16800	0.016	14.46666667
16860	0.013	14.53333333
16920	0.014	14.66666667
16980	0.013	14.66666667
17040	0.013	14.66666667
17100	0.013	14.73333333
17160	0.013	14.73333333
17220	0.013	14.8
17280	0.013	13.73333333
17340	0.013	13.46666667
17400	0.014	13.4
17460	0.013	13.4
17520	0.012	13.26666667
17580	0.013	13.26666667
17640	0.015	13.4
17700	0.014	13.26666667
17760	0.015	13.4
17820	0.013	13.33333333
17880	0.018	13.66666667
17940	0.013	13.66666667
18000	0.013	13.66666667
18060	0.019	14.06666667
18120	0.015	14.2
18180	0.016	14.4
18240	0.013	14.4
18300	0.013	14.33333333
18360	0.012	14.26666667
18420	0.019	14.73333333
18480	0.017	15
18540	0.017	15.13333333

18600	0.064	18.46666667
18660	0.014	18.4
18720	0.013	18.4
18780	0.015	18.2
18840	0.016	18.4
18900	0.018	18.73333333
18960	0.015	18.46666667
19020	0.014	18.4
19080	0.014	18.26666667
19140	0.05	20.73333333
19200	0.014	20.8
19260	0.017	21.13333333
19320	0.015	20.86666667
19380	0.017	20.86666667
19440	0.019	21

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_007
Test Start Time	7:08:24 AM
Test Start Date	6/10/2020
Test Length [D:H:M]	0:09:44
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.019
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.078
Mass TWA [mg/m3]	0.015
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	397

Max Instant Conc.	Max 15 min TWA Conc.
78	32.6

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.078			
120	0.015			
180	0.015			
240	0.014			
300	0.012			
360	0.011			
420	0.012			
480	0.011			
540	0.012			
600	0.012			
660	0.011			
720	0.011			
780	0.011			
840	0.011			
900	0.011			16.46666667
960	0.012			12.06666667
1020	0.016			12.13333333
1080	0.011			11.86666667
1140	0.012			11.73333333
1200	0.011			11.66666667
1260	0.011			11.66666667
1320	0.011			11.6
1380	0.016			11.93333333
1440	0.011			11.86666667
1500	0.013			11.93333333
1560	0.012			12
1620	0.011			12

1680	0.011	12
1740	0.013	12.13333333
1800	0.012	12.2
1860	0.013	12.26666667
1920	0.012	12
1980	0.011	12
2040	0.011	11.93333333
2100	0.011	11.93333333
2160	0.014	12.13333333
2220	0.014	12.33333333
2280	0.011	12
2340	0.011	12
2400	0.012	11.93333333
2460	0.013	12
2520	0.012	12.06666667
2580	0.011	12.06666667
2640	0.011	11.93333333
2700	0.011	11.86666667
2760	0.011	11.73333333
2820	0.011	11.66666667
2880	0.011	11.66666667
2940	0.012	11.73333333
3000	0.011	11.73333333
3060	0.012	11.6
3120	0.012	11.46666667
3180	0.02	12.06666667
3240	0.015	12.33333333
3300	0.012	12.33333333
3360	0.011	12.2
3420	0.012	12.2
3480	0.012	12.26666667
3540	0.013	12.4
3600	0.013	12.53333333
3660	0.013	12.66666667
3720	0.013	12.8
3780	0.013	12.93333333
3840	0.014	13.06666667
3900	0.015	13.33333333
3960	0.014	13.46666667
4020	0.014	13.6
4080	0.031	14.33333333
4140	0.018	14.53333333
4200	0.019	15
4260	0.018	15.46666667
4320	0.013	15.53333333
4380	0.013	15.6
4440	0.013	15.6

4500	0.013	15.6
4560	0.013	15.6
4620	0.014	15.66666667
4680	0.014	15.73333333
4740	0.014	15.73333333
4800	0.014	15.66666667
4860	0.014	15.66666667
4920	0.016	15.8
4980	0.014	14.66666667
5040	0.014	14.4
5100	0.013	14
5160	0.014	13.73333333
5220	0.015	13.86666667
5280	0.014	13.93333333
5340	0.014	14
5400	0.014	14.06666667
5460	0.014	14.13333333
5520	0.014	14.13333333
5580	0.014	14.13333333
5640	0.015	14.2
5700	0.014	14.2
5760	0.014	14.2
5820	0.014	14.06666667
5880	0.014	14.06666667
5940	0.014	14.06666667
6000	0.014	14.13333333
6060	0.014	14.13333333
6120	0.014	14.06666667
6180	0.014	14.06666667
6240	0.015	14.13333333
6300	0.014	14.13333333
6360	0.014	14.13333333
6420	0.014	14.13333333
6480	0.014	14.13333333
6540	0.015	14.13333333
6600	0.015	14.2
6660	0.015	14.26666667
6720	0.015	14.33333333
6780	0.015	14.4
6840	0.015	14.46666667
6900	0.015	14.53333333
6960	0.015	14.6
7020	0.015	14.66666667
7080	0.014	14.66666667
7140	0.014	14.6
7200	0.015	14.66666667
7260	0.019	15

7320	0.015	15.06666667
7380	0.016	15.2
7440	0.015	15.2
7500	0.032	16.33333333
7560	0.029	17.26666667
7620	0.015	17.26666667
7680	0.015	17.26666667
7740	0.015	17.26666667
7800	0.015	17.26666667
7860	0.014	17.2
7920	0.015	17.2
7980	0.015	17.26666667
8040	0.015	17.33333333
8100	0.015	17.33333333
8160	0.015	17.06666667
8220	0.014	17
8280	0.015	16.93333333
8340	0.015	16.93333333
8400	0.015	15.8
8460	0.015	14.86666667
8520	0.015	14.86666667
8580	0.015	14.86666667
8640	0.015	14.86666667
8700	0.015	14.86666667
8760	0.015	14.93333333
8820	0.016	15
8880	0.015	15
8940	0.015	15
9000	0.017	15.13333333
9060	0.016	15.2
9120	0.015	15.26666667
9180	0.015	15.26666667
9240	0.015	15.26666667
9300	0.015	15.26666667
9360	0.015	15.26666667
9420	0.015	15.26666667
9480	0.015	15.26666667
9540	0.015	15.26666667
9600	0.016	15.33333333
9660	0.015	15.33333333
9720	0.015	15.26666667
9780	0.017	15.4
9840	0.019	15.66666667
9900	0.016	15.6
9960	0.015	15.53333333
10020	0.015	15.53333333
10080	0.016	15.6

10140	0.017	15.73333333
10200	0.016	15.8
10260	0.016	15.86666667
10320	0.017	16
10380	0.016	16.06666667
10440	0.016	16.13333333
10500	0.016	16.13333333
10560	0.016	16.2
10620	0.017	16.33333333
10680	0.016	16.26666667
10740	0.017	16.13333333
10800	0.017	16.2
10860	0.017	16.33333333
10920	0.017	16.46666667
10980	0.016	16.46666667
11040	0.016	16.4
11100	0.016	16.4
11160	0.016	16.4
11220	0.016	16.33333333
11280	0.016	16.33333333
11340	0.017	16.4
11400	0.016	16.4
11460	0.017	16.46666667
11520	0.017	16.46666667
11580	0.017	16.53333333
11640	0.016	16.46666667
11700	0.019	16.6
11760	0.017	16.6
11820	0.016	16.53333333
11880	0.017	16.6
11940	0.017	16.66666667
12000	0.017	16.73333333
12060	0.017	16.8
12120	0.018	16.93333333
12180	0.021	17.26666667
12240	0.018	17.33333333
12300	0.022	17.73333333
12360	0.03	18.6
12420	0.018	18.66666667
12480	0.018	18.73333333
12540	0.018	18.86666667
12600	0.018	18.8
12660	0.018	18.86666667
12720	0.018	19
12780	0.018	19.06666667
12840	0.018	19.13333333
12900	0.018	19.2

12960	0.017	19.2
13020	0.018	19.2
13080	0.02	19.13333333
13140	0.017	19.06666667
13200	0.019	18.86666667
13260	0.018	18.06666667
13320	0.028	18.73333333
13380	0.018	18.73333333
13440	0.018	18.73333333
13500	0.018	18.73333333
13560	0.018	18.73333333
13620	0.019	18.8
13680	0.018	18.8
13740	0.018	18.8
13800	0.018	18.8
13860	0.019	18.93333333
13920	0.018	18.93333333
13980	0.018	18.8
14040	0.018	18.86666667
14100	0.018	18.8
14160	0.018	18.8
14220	0.018	18.13333333
14280	0.019	18.2
14340	0.019	18.26666667
14400	0.018	18.26666667
14460	0.018	18.26666667
14520	0.018	18.2
14580	0.018	18.2
14640	0.018	18.2
14700	0.02	18.33333333
14760	0.018	18.26666667
14820	0.018	18.26666667
14880	0.018	18.26666667
14940	0.018	18.26666667
15000	0.018	18.26666667
15060	0.018	18.26666667
15120	0.019	18.33333333
15180	0.02	18.4
15240	0.019	18.4
15300	0.019	18.46666667
15360	0.019	18.53333333
15420	0.02	18.66666667
15480	0.02	18.8
15540	0.019	18.86666667
15600	0.019	18.8
15660	0.02	18.93333333
15720	0.019	19

15780	0.02	19.13333333
15840	0.026	19.66666667
15900	0.019	19.73333333
15960	0.019	19.8
16020	0.019	19.8
16080	0.02	19.8
16140	0.02	19.86666667
16200	0.019	19.86666667
16260	0.019	19.86666667
16320	0.019	19.8
16380	0.019	19.73333333
16440	0.02	19.8
16500	0.02	19.86666667
16560	0.019	19.8
16620	0.021	19.93333333
16680	0.019	19.86666667
16740	0.019	19.4
16800	0.02	19.46666667
16860	0.02	19.53333333
16920	0.02	19.6
16980	0.02	19.6
17040	0.021	19.66666667
17100	0.02	19.73333333
17160	0.02	19.8
17220	0.02	19.86666667
17280	0.02	19.93333333
17340	0.021	20
17400	0.02	20
17460	0.021	20.13333333
17520	0.021	20.13333333
17580	0.021	20.26666667
17640	0.02	20.33333333
17700	0.021	20.4
17760	0.021	20.46666667
17820	0.022	20.6
17880	0.022	20.73333333
17940	0.022	20.8
18000	0.021	20.86666667
18060	0.021	20.93333333
18120	0.021	21
18180	0.021	21.06666667
18240	0.021	21.06666667
18300	0.022	21.2
18360	0.021	21.2
18420	0.021	21.2
18480	0.021	21.2
18540	0.021	21.26666667

18600	0.022	21.33333333
18660	0.022	21.4
18720	0.022	21.4
18780	0.022	21.4
18840	0.022	21.4
18900	0.022	21.46666667
18960	0.022	21.53333333
19020	0.022	21.6
19080	0.023	21.73333333
19140	0.022	21.8
19200	0.022	21.8
19260	0.023	21.93333333
19320	0.023	22.06666667
19380	0.023	22.2
19440	0.027	22.6
19500	0.026	22.86666667
19560	0.023	22.93333333
19620	0.023	23
19680	0.023	23.06666667
19740	0.023	23.13333333
19800	0.023	23.2
19860	0.023	23.26666667
19920	0.023	23.33333333
19980	0.023	23.33333333
20040	0.023	23.4
20100	0.023	23.46666667
20160	0.024	23.53333333
20220	0.023	23.53333333
20280	0.024	23.6
20340	0.023	23.33333333
20400	0.024	23.2
20460	0.024	23.26666667
20520	0.024	23.33333333
20580	0.025	23.46666667
20640	0.024	23.53333333
20700	0.024	23.6
20760	0.025	23.73333333
20820	0.024	23.8
20880	0.024	23.86666667
20940	0.024	23.93333333
21000	0.025	24.06666667
21060	0.024	24.06666667
21120	0.025	24.2
21180	0.026	24.33333333
21240	0.025	24.46666667
21300	0.024	24.46666667
21360	0.024	24.46666667

21420	0.024	24.46666667
21480	0.024	24.4
21540	0.024	24.4
21600	0.025	24.46666667
21660	0.025	24.46666667
21720	0.025	24.53333333
21780	0.025	24.6
21840	0.025	24.66666667
21900	0.025	24.66666667
21960	0.026	24.8
22020	0.026	24.86666667
22080	0.026	24.86666667
22140	0.026	24.93333333
22200	0.026	25.06666667
22260	0.026	25.2
22320	0.026	25.33333333
22380	0.026	25.46666667
22440	0.027	25.66666667
22500	0.027	25.8
22560	0.027	25.93333333
22620	0.026	26
22680	0.027	26.13333333
22740	0.027	26.26666667
22800	0.027	26.4
22860	0.027	26.46666667
22920	0.027	26.53333333
22980	0.027	26.6
23040	0.029	26.8
23100	0.029	27
23160	0.027	27.06666667
34450	0	25.33333333
34500	0.049	26.86666667
34560	0.042	27.86666667
34620	0.037	28.53333333
34680	0.037	29.2
34740	0.038	30
34800	0.037	30.66666667
34860	0.035	31.2
34920	0.035	31.73333333
34980	0.034	32.2
35040	0.033	32.6

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_008
Test Start Time	6:41:48 AM
Test Start Date	6/11/2020
Test Length [D:H:M]	0:04:23
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.027
Mass Minimum [mg/m3]	0.024
Mass Maximum [mg/m3]	0.075
Mass TWA [mg/m3]	0.015
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	263

Max Instant Conc.	Max 15 min TWA Conc.
75	31.33333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.075			
120	0.03			
180	0.029			
240	0.029			
300	0.032			
360	0.03			
420	0.028			
480	0.027			
540	0.028			
600	0.027			
660	0.027			
720	0.027			
780	0.027			
840	0.027			
900	0.027			31.33333333
960	0.027			28.13333333
1020	0.026			27.86666667
1080	0.026			27.66666667
1140	0.026			27.46666667
1200	0.026			27.06666667
1260	0.025			26.73333333
1320	0.026			26.6
1380	0.028			26.66666667
1440	0.027			26.6
1500	0.025			26.46666667
1560	0.025			26.33333333
1620	0.029			26.46666667

1680	0.025	26.33333333
1740	0.025	26.2
1800	0.025	26.06666667
1860	0.026	26
1920	0.024	25.86666667
1980	0.025	25.8
2040	0.024	25.66666667
2100	0.024	25.53333333
2160	0.025	25.53333333
2220	0.025	25.46666667
2280	0.027	25.4
2340	0.028	25.46666667
2400	0.025	25.46666667
2460	0.026	25.53333333
2520	0.025	25.26666667
2580	0.028	25.46666667
2640	0.025	25.46666667
2700	0.025	25.46666667
2760	0.025	25.4
2820	0.025	25.46666667
2880	0.026	25.53333333
2940	0.027	25.73333333
3000	0.026	25.86666667
3060	0.025	25.86666667
3120	0.025	25.86666667
3180	0.024	25.66666667
3240	0.026	25.53333333
3300	0.025	25.53333333
3360	0.025	25.46666667
3420	0.024	25.4
3480	0.025	25.2
3540	0.025	25.2
3600	0.026	25.26666667
3660	0.025	25.26666667
3720	0.025	25.26666667
3780	0.026	25.26666667
3840	0.028	25.33333333
3900	0.028	25.46666667
3960	0.026	25.53333333
4020	0.025	25.53333333
4080	0.025	25.6
4140	0.025	25.53333333
4200	0.027	25.66666667
4260	0.029	25.93333333
4320	0.027	26.13333333
4380	0.026	26.2
4440	0.025	26.2

4500	0.026	26.2
4560	0.025	26.2
4620	0.025	26.2
4680	0.026	26.2
4740	0.026	26.06666667
4800	0.025	25.86666667
4860	0.028	26
4920	0.025	26
4980	0.026	26.06666667
5040	0.027	26.2
5100	0.025	26.06666667
5160	0.025	25.8
5220	0.026	25.73333333
5280	0.027	25.8
5340	0.025	25.8
5400	0.026	25.8
5460	0.025	25.8
5520	0.025	25.8
5580	0.026	25.8
5640	0.025	25.73333333
5700	0.025	25.73333333
5760	0.027	25.66666667
5820	0.025	25.66666667
5880	0.027	25.73333333
5940	0.025	25.6
6000	0.028	25.8
6060	0.025	25.8
6120	0.024	25.66666667
6180	0.025	25.53333333
6240	0.026	25.6
6300	0.025	25.53333333
6360	0.025	25.53333333
6420	0.026	25.6
6480	0.027	25.66666667
6540	0.026	25.73333333
6600	0.027	25.86666667
6660	0.026	25.8
6720	0.028	26
6780	0.026	25.93333333
6840	0.026	26
6900	0.025	25.8
6960	0.026	25.86666667
7020	0.026	26
7080	0.026	26.06666667
7140	0.027	26.13333333
7200	0.027	26.26666667
7260	0.026	26.33333333

7320	0.027	26.4
7380	0.026	26.33333333
7440	0.026	26.33333333
7500	0.025	26.2
7560	0.026	26.2
7620	0.026	26.06666667
7680	0.026	26.06666667
7740	0.026	26.06666667
7800	0.026	26.13333333
7860	0.028	26.26666667
7920	0.026	26.26666667
7980	0.026	26.26666667
8040	0.026	26.2
8100	0.03	26.4
8160	0.028	26.53333333
8220	0.026	26.46666667
8280	0.026	26.46666667
8340	0.025	26.4
8400	0.027	26.53333333
8460	0.026	26.53333333
8520	0.026	26.53333333
8580	0.025	26.46666667
8640	0.027	26.53333333
8700	0.026	26.53333333
8760	0.026	26.4
8820	0.027	26.46666667
8880	0.025	26.4
8940	0.026	26.4
9000	0.026	26.13333333
9060	0.027	26.06666667
9120	0.03	26.33333333
9180	0.027	26.4
9240	0.027	26.53333333
9300	0.029	26.66666667
9360	0.028	26.8
9420	0.026	26.8
9480	0.032	27.26666667
9540	0.026	27.2
9600	0.028	27.33333333
9660	0.026	27.33333333
9720	0.028	27.4
9780	0.027	27.53333333
9840	0.029	27.73333333
9900	0.027	27.8
9960	0.028	27.86666667
10020	0.029	27.8
10080	0.03	28

10140	0.028	28.06666667
10200	0.027	27.93333333
10260	0.027	27.86666667
10320	0.031	28.2
10380	0.033	28.26666667
10440	0.027	28.33333333
10500	0.027	28.26666667
10560	0.027	28.33333333
10620	0.028	28.33333333
10680	0.027	28.33333333
10740	0.028	28.26666667
10800	0.028	28.33333333
10860	0.027	28.26666667
10920	0.028	28.2
10980	0.028	28.06666667
11040	0.027	28
11100	0.028	28.06666667
11160	0.028	28.13333333
11220	0.029	28
11280	0.028	27.66666667
11340	0.027	27.66666667
11400	0.027	27.66666667
11460	0.028	27.73333333
11520	0.028	27.73333333
11580	0.034	28.2
11640	0.028	28.2
11700	0.029	28.26666667
11760	0.027	28.26666667
11820	0.029	28.33333333
11880	0.029	28.4
11940	0.029	28.53333333
12000	0.028	28.53333333
12060	0.028	28.53333333
12120	0.029	28.53333333
12180	0.028	28.53333333
12240	0.028	28.6
12300	0.028	28.66666667
12360	0.029	28.73333333
12420	0.028	28.73333333
12480	0.031	28.53333333
12540	0.028	28.53333333
12600	0.027	28.4
12660	0.028	28.46666667
12720	0.028	28.4
12780	0.029	28.4
12840	0.028	28.33333333
12900	0.028	28.33333333

12960	0.031	28.53333333
13020	0.028	28.46666667
13080	0.027	28.4
13140	0.029	28.46666667
13200	0.028	28.46666667
13260	0.028	28.4
13320	0.028	28.4
13380	0.03	28.33333333
13440	0.032	28.6
13500	0.028	28.66666667
13560	0.029	28.73333333
13620	0.028	28.73333333
13680	0.031	28.86666667
13740	0.028	28.86666667
13800	0.029	28.93333333
13860	0.029	28.8
13920	0.029	28.86666667
13980	0.028	28.93333333
14040	0.029	28.93333333
14100	0.029	29
14160	0.029	29.06666667
14220	0.029	29.13333333
14280	0.029	29.06666667
14340	0.03	28.93333333
14400	0.029	29
14460	0.031	29.13333333
14520	0.03	29.26666667
14580	0.029	29.13333333
14640	0.03	29.26666667
14700	0.032	29.46666667
14760	0.032	29.66666667
14820	0.029	29.66666667
14880	0.033	30
14940	0.033	30.26666667
15000	0.029	30.26666667
15060	0.03	30.33333333
15120	0.029	30.33333333
15180	0.03	30.4
15240	0.03	30.4
15300	0.03	30.46666667
15360	0.03	30.4
15420	0.029	30.33333333
15480	0.033	30.6
15540	0.03	30.6
15600	0.03	30.46666667
15660	0.03	30.33333333
15720	0.03	30.4

15780	0.031	30.26666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_009
Test Start Time	7:31:13 AM
Test Start Date	6/15/2020
Test Length [D:H:M]	0:04:37
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.014
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.049
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	274

Max Instant Conc.	Max 15 min TWA Conc.
49	19

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.02			
120	0.024			
180	0.024			
240	0.023			
300	0.019			
360	0.015			
420	0.014			
480	0.013			
540	0.012			
600	0.012			
660	0.012			
720	0.011			
780	0.011			
840	0.012			
900	0.011			15.53333333
960	0.011			14.93333333
1020	0.011			14.06666667
1080	0.011			13.2
1140	0.011			12.4
1200	0.011			11.86666667
1260	0.01			11.53333333
1320	0.011			11.33333333
1380	0.011			11.2
1440	0.01			11.06666667
1500	0.01			10.93333333
1560	0.01			10.8
1620	0.011			10.8

1680	0.01	10.73333333
1740	0.011	10.66666667
1800	0.011	10.66666667
1860	0.01	10.6
1920	0.01	10.53333333
1980	0.01	10.46666667
2040	0.01	10.4
2100	0.01	10.33333333
2160	0.01	10.33333333
2220	0.011	10.33333333
2280	0.013	10.46666667
2340	0.019	11.06666667
2400	0.015	11.4
2460	0.015	11.73333333
2520	0.016	12.06666667
2580	0.011	12.13333333
2640	0.013	12.26666667
2700	0.012	12.33333333
2760	0.031	13.73333333
2820	0.049	16.33333333
2880	0.024	17.26666667
2940	0.021	18
3000	0.023	18.86666667
3060	0.012	19
3120	0.011	19
3180	0.011	18.86666667
3240	0.011	18.33333333
3300	0.011	18.06666667
3360	0.011	17.8
3420	0.012	17.53333333
3480	0.012	17.6
3540	0.012	17.53333333
3600	0.013	17.6
3660	0.012	16.33333333
3720	0.011	13.8
3780	0.01	12.86666667
3840	0.011	12.2
3900	0.014	11.6
3960	0.013	11.66666667
4020	0.014	11.86666667
4080	0.013	12
4140	0.012	12.06666667
4200	0.011	12.06666667
4260	0.015	12.33333333
4320	0.012	12.33333333
4380	0.016	12.6
4440	0.014	12.73333333

4500	0.032	14
4560	0.023	14.73333333
4620	0.017	15.13333333
4680	0.02	15.8
4740	0.015	16.06666667
4800	0.013	16
4860	0.012	15.93333333
4920	0.012	15.8
4980	0.012	15.73333333
5040	0.012	15.73333333
5100	0.012	15.8
5160	0.012	15.6
5220	0.011	15.53333333
5280	0.011	15.2
5340	0.012	15.06666667
5400	0.011	13.66666667
5460	0.012	12.93333333
5520	0.012	12.6
5580	0.012	12.06666667
5640	0.012	11.86666667
5700	0.012	11.8
5760	0.012	11.8
5820	0.012	11.8
5880	0.012	11.8
5940	0.013	11.86666667
6000	0.012	11.86666667
6060	0.012	11.86666667
6120	0.013	12
6180	0.013	12.13333333
6240	0.012	12.13333333
6300	0.013	12.26666667
6360	0.013	12.33333333
6420	0.013	12.4
6480	0.012	12.4
6540	0.013	12.46666667
6600	0.013	12.53333333
6660	0.012	12.53333333
6720	0.012	12.53333333
6780	0.012	12.53333333
6840	0.012	12.46666667
6900	0.013	12.53333333
6960	0.013	12.6
7020	0.013	12.6
7080	0.013	12.6
7140	0.013	12.66666667
7200	0.013	12.66666667
7260	0.013	12.66666667

7320	0.013	12.66666667
7380	0.013	12.73333333
7440	0.013	12.73333333
7500	0.013	12.73333333
7560	0.013	12.8
7620	0.013	12.86666667
7680	0.013	12.93333333
7740	0.014	13.06666667
7800	0.019	13.46666667
7860	0.015	13.6
7920	0.013	13.6
7980	0.013	13.6
8040	0.013	13.6
8100	0.013	13.6
8160	0.013	13.6
8220	0.013	13.6
8280	0.013	13.6
8340	0.013	13.6
8400	0.013	13.6
8460	0.013	13.6
8520	0.013	13.6
8580	0.013	13.6
8640	0.013	13.53333333
8700	0.013	13.13333333
8760	0.013	13
8820	0.013	13
8880	0.014	13.06666667
8940	0.014	13.13333333
9000	0.013	13.13333333
9060	0.014	13.2
9120	0.014	13.26666667
9180	0.013	13.26666667
9240	0.013	13.26666667
9300	0.013	13.26666667
9360	0.015	13.4
9420	0.015	13.53333333
9480	0.017	13.8
9540	0.015	13.93333333
9600	0.03	15.06666667
9660	0.016	15.26666667
9720	0.017	15.53333333
9780	0.014	15.53333333
9840	0.014	15.53333333
9900	0.014	15.6
9960	0.014	15.6
10020	0.013	15.53333333
10080	0.013	15.53333333

10140	0.014	15.6
10200	0.014	15.66666667
10260	0.013	15.53333333
10320	0.014	15.46666667
10380	0.014	15.26666667
10440	0.029	16.2
10500	0.015	15.2
10560	0.015	15.13333333
10620	0.014	14.93333333
10680	0.014	14.93333333
10740	0.014	14.93333333
10800	0.014	14.93333333
10860	0.015	15
10920	0.015	15.13333333
10980	0.015	15.26666667
11040	0.015	15.33333333
11100	0.014	15.33333333
11160	0.015	15.46666667
11220	0.015	15.53333333
11280	0.014	15.53333333
11340	0.014	14.53333333
11400	0.014	14.46666667
11460	0.014	14.4
11520	0.014	14.4
11580	0.015	14.46666667
11640	0.015	14.53333333
11700	0.014	14.53333333
11760	0.014	14.46666667
11820	0.014	14.4
11880	0.015	14.4
11940	0.014	14.33333333
12000	0.015	14.4
12060	0.015	14.4
12120	0.015	14.4
12180	0.014	14.4
12240	0.014	14.4
12300	0.015	14.46666667
12360	0.015	14.53333333
12420	0.015	14.6
12480	0.015	14.6
12540	0.015	14.6
12600	0.015	14.66666667
12660	0.015	14.73333333
12720	0.015	14.8
12780	0.016	14.86666667
12840	0.015	14.93333333
12900	0.015	14.93333333

12960	0.016	15
13020	0.016	15.06666667
13080	0.015	15.13333333
13140	0.015	15.2
13200	0.016	15.26666667
13260	0.016	15.33333333
13320	0.016	15.4
13380	0.016	15.46666667
13440	0.016	15.53333333
13500	0.016	15.6
13560	0.016	15.66666667
13620	0.016	15.73333333
13680	0.016	15.73333333
13740	0.016	15.8
13800	0.015	15.8
13860	0.015	15.73333333
13920	0.016	15.73333333
13980	0.015	15.73333333
14040	0.015	15.73333333
14100	0.016	15.73333333
14160	0.015	15.66666667
14220	0.015	15.6
14280	0.016	15.6
14340	0.016	15.6
14400	0.016	15.6
14460	0.016	15.6
14520	0.016	15.6
14580	0.016	15.6
14640	0.016	15.6
14700	0.016	15.66666667
14760	0.016	15.73333333
14820	0.015	15.66666667
14880	0.016	15.73333333
14940	0.015	15.73333333
15000	0.016	15.73333333
15060	0.017	15.86666667
15120	0.016	15.93333333
15180	0.016	15.93333333
15240	0.016	15.93333333
15300	0.016	15.93333333
15360	0.016	15.93333333
15420	0.016	15.93333333
15480	0.016	15.93333333
15540	0.016	15.93333333
15600	0.016	15.93333333
15660	0.016	15.93333333
15720	0.016	16

15780	0.016	16
15840	0.016	16.06666667
15900	0.016	16.06666667
15960	0.017	16.06666667
16020	0.016	16.06666667
16080	0.016	16.06666667
16140	0.015	16
16200	0.015	15.93333333
16260	0.015	15.86666667
16320	0.015	15.8
16380	0.015	15.73333333
16621	0	14.66666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_010
Test Start Time	12:04:47 PM
Test Start Date	6/16/2020
Test Length [D:H:M]	0:03:34
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.013
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.039
Mass TWA [mg/m3]	0.006
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	214

Max Instant Conc.	Max 15 min TWA Conc.
39	16.13333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.021		
120	0.006		
180	0.006		
240	0.006		
300	0.006		
360	0.006		
420	0.007		
480	0.007		
540	0.007		
600	0.007		
660	0.007		
720	0.01		
780	0.014		
840	0.013		
900	0.009		
960	0.008		
1020	0.008		
1080	0.008		
1140	0.009		
1200	0.01		
1260	0.009		
1320	0.01		
1380	0.01		
1440	0.011		
1500	0.039		
1560	0.029		
1620	0.012		

8.8
7.933333333
8.066666667
8.2
8.4
8.666666667
8.866666667
9.066666667
9.266666667
9.533333333
11.66666667
13.13333333
13.26666667

1680	0.009	12.93333333
1740	0.009	12.66666667
1800	0.009	12.66666667
1860	0.01	12.8
1920	0.009	12.86666667
1980	0.009	12.93333333
2040	0.009	12.93333333
2100	0.009	12.86666667
2160	0.01	12.93333333
2220	0.009	12.86666667
2280	0.011	12.93333333
2340	0.009	12.8
2400	0.01	10.86666667
2460	0.01	9.6
2520	0.01	9.466666667
2580	0.01	9.533333333
2640	0.01	9.6
2700	0.012	9.8
2760	0.01	9.8
2820	0.01	9.866666667
2880	0.025	10.93333333
2940	0.029	12.26666667
3000	0.01	12.33333333
3060	0.01	12.33333333
3120	0.011	12.46666667
3180	0.02	13.06666667
3240	0.026	14.2
3300	0.014	14.46666667
3360	0.012	14.6
3420	0.013	14.8
3480	0.023	15.66666667
3540	0.015	16
3600	0.012	16
3660	0.011	16.06666667
3720	0.011	16.13333333
3780	0.011	15.2
3840	0.011	14
3900	0.011	14.06666667
3960	0.011	14.13333333
4020	0.012	14.2
4080	0.012	13.66666667
4140	0.012	12.73333333
4200	0.013	12.66666667
4260	0.014	12.8
4320	0.016	13
4380	0.012	12.26666667
4440	0.014	12.2

4500	0.014	12.33333333
4560	0.012	12.4
4620	0.012	12.46666667
4680	0.011	12.46666667
4740	0.011	12.46666667
4800	0.011	12.46666667
4860	0.015	12.73333333
4920	0.027	13.73333333
4980	0.011	13.66666667
5040	0.012	13.66666667
5100	0.013	13.66666667
5160	0.012	13.53333333
5220	0.011	13.2
5280	0.012	13.2
5340	0.012	13.06666667
5400	0.012	12.93333333
5460	0.012	12.93333333
5520	0.012	12.93333333
5580	0.012	13
5640	0.012	13.06666667
5700	0.012	13.13333333
5760	0.012	12.93333333
5820	0.012	11.93333333
5880	0.014	12.13333333
5940	0.013	12.2
6000	0.012	12.13333333
6060	0.012	12.13333333
6120	0.012	12.2
6180	0.012	12.2
6240	0.012	12.2
6300	0.013	12.26666667
6360	0.016	12.53333333
6420	0.015	12.73333333
6480	0.014	12.86666667
6540	0.014	13
6600	0.017	13.33333333
6660	0.012	13.33333333
6720	0.012	13.33333333
6780	0.012	13.2
6840	0.012	13.13333333
6900	0.012	13.13333333
6960	0.013	13.2
7020	0.012	13.2
7080	0.012	13.2
7140	0.012	13.2
7200	0.012	13.13333333
7260	0.013	12.93333333

7320	0.012	12.73333333
7380	0.012	12.6
7440	0.012	12.46666667
7500	0.012	12.13333333
7560	0.012	12.13333333
7620	0.012	12.13333333
7680	0.012	12.13333333
7740	0.013	12.2
7800	0.016	12.46666667
7860	0.013	12.46666667
7920	0.015	12.66666667
7980	0.013	12.73333333
8040	0.013	12.8
8100	0.012	12.8
8160	0.012	12.73333333
8220	0.013	12.8
8280	0.013	12.86666667
8340	0.013	12.93333333
8400	0.013	13
8460	0.013	13.06666667
8520	0.013	13.13333333
8580	0.013	13.2
8640	0.013	13.2
8700	0.013	13
8760	0.013	13
8820	0.013	12.86666667
8880	0.013	12.86666667
8940	0.013	12.86666667
9000	0.013	12.93333333
9060	0.012	12.93333333
9120	0.013	12.93333333
9180	0.013	12.93333333
9240	0.013	12.93333333
9300	0.013	12.93333333
9360	0.012	12.86666667
9420	0.016	13.06666667
9480	0.014	13.13333333
9540	0.017	13.4
9600	0.014	13.46666667
9660	0.016	13.66666667
9720	0.015	13.8
9780	0.016	14
9840	0.013	14
9900	0.013	14
9960	0.013	14.06666667
10020	0.013	14.06666667
10080	0.013	14.06666667

10140	0.015	14.2
10200	0.014	14.26666667
10260	0.015	14.46666667
10320	0.023	14.93333333
10380	0.024	15.6
10440	0.016	15.53333333
10500	0.013	15.46666667
10560	0.013	15.26666667
10620	0.014	15.2
10680	0.015	15.13333333
10740	0.015	15.26666667
10800	0.015	15.4
10860	0.015	15.53333333
10920	0.013	15.53333333
10980	0.013	15.53333333
11040	0.013	15.4
11100	0.014	15.4
11160	0.013	15.26666667
11220	0.013	14.6
11280	0.013	13.86666667
11340	0.015	13.8
11400	0.014	13.86666667
11460	0.014	13.93333333
11520	0.013	13.86666667
11580	0.014	13.8
11640	0.015	13.8
11700	0.015	13.8
11760	0.014	13.73333333
11820	0.013	13.73333333
11880	0.016	13.93333333
11940	0.015	14.06666667
12000	0.015	14.13333333
12060	0.015	14.26666667
12120	0.014	14.33333333
12180	0.014	14.4
12240	0.014	14.33333333
12300	0.018	14.6
12360	0.014	14.6
12420	0.014	14.66666667
12480	0.015	14.73333333
12540	0.014	14.66666667
12600	0.015	14.66666667
12660	0.015	14.73333333
12720	0.013	14.73333333
12780	0.013	14.53333333
12840	0.013	14.4

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_011
Test Start Time	6:47:41 AM
Test Start Date	6/17/2020
Test Length [D:H:M]	0:10:10
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.017
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.029
Mass TWA [mg/m3]	0.017
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	472

Max Instant Conc.	Max 15 min TWA Conc.
29	25.86666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.019			
120	0.017			
180	0.017			
240	0.016			
300	0.017			
360	0.017			
420	0.018			
480	0.018			
540	0.015			
600	0.018			
660	0.018			
720	0.02			
780	0.019			
840	0.017			
900	0.017			17.53333333
960	0.017			17.4
1020	0.016			17.33333333
1080	0.018			17.4
1140	0.019			17.6
1200	0.017			17.6
1260	0.016			17.53333333
1320	0.018			17.53333333
1380	0.017			17.46666667
1440	0.017			17.6
1500	0.017			17.53333333
1560	0.018			17.53333333
1620	0.018			17.4

1680	0.017	17.26666667
1740	0.019	17.4
1800	0.021	17.66666667
1860	0.023	18.06666667
1920	0.025	18.66666667
1980	0.024	19.06666667
2040	0.027	19.6
2100	0.025	20.13333333
2160	0.025	20.73333333
2220	0.028	21.4
2280	0.029	22.2
2340	0.027	22.86666667
2400	0.024	23.33333333
2460	0.026	23.86666667
2520	0.025	24.33333333
2580	0.026	24.93333333
2640	0.025	25.33333333
2700	0.025	25.6
2760	0.025	25.73333333
2820	0.025	25.73333333
2880	0.024	25.73333333
2940	0.024	25.53333333
3000	0.027	25.66666667
3060	0.028	25.86666667
3120	0.026	25.73333333
3180	0.026	25.53333333
3240	0.024	25.33333333
3300	0.024	25.33333333
3360	0.024	25.2
3420	0.024	25.13333333
3480	0.025	25.06666667
3540	0.024	25
3600	0.026	25.06666667
3660	0.025	25.06666667
3720	0.026	25.13333333
3780	0.027	25.33333333
3840	0.025	25.4
3900	0.024	25.2
3960	0.024	24.93333333
4020	0.024	24.8
4080	0.025	24.73333333
4140	0.025	24.8
4200	0.024	24.8
4260	0.023	24.73333333
4320	0.023	24.66666667
4380	0.023	24.53333333
4440	0.023	24.46666667

4500	0.023	24.26666667
4560	0.023	24.13333333
4620	0.023	23.93333333
4680	0.022	23.6
4740	0.023	23.46666667
4800	0.023	23.4
4860	0.023	23.33333333
4920	0.023	23.26666667
4980	0.028	23.46666667
5040	0.024	23.4
5100	0.022	23.26666667
5160	0.024	23.33333333
5220	0.022	23.26666667
5280	0.022	23.2
5340	0.022	23.13333333
5400	0.022	23.06666667
5460	0.022	23
5520	0.021	22.86666667
5580	0.021	22.8
5640	0.021	22.66666667
5700	0.021	22.53333333
5760	0.021	22.4
5820	0.021	22.26666667
5880	0.02	21.73333333
5940	0.02	21.46666667
6000	0.02	21.33333333
6060	0.019	21
6120	0.019	20.8
6180	0.019	20.6
6240	0.018	20.33333333
6300	0.019	20.13333333
6360	0.019	19.93333333
6420	0.019	19.8
6480	0.018	19.6
6540	0.018	19.4
6600	0.019	19.26666667
6660	0.018	19.06666667
6720	0.018	18.86666667
6780	0.02	18.86666667
6840	0.018	18.73333333
6900	0.018	18.6
6960	0.019	18.6
7020	0.02	18.66666667
7080	0.019	18.66666667
7140	0.019	18.73333333
7200	0.018	18.66666667
7260	0.018	18.6

7320	0.018	18.53333333
7380	0.019	18.6
7440	0.018	18.6
7500	0.018	18.53333333
7560	0.02	18.66666667
7620	0.02	18.8
7680	0.017	18.6
7740	0.017	18.53333333
7800	0.016	18.4
7860	0.016	18.2
7920	0.016	17.93333333
7980	0.016	17.73333333
8040	0.016	17.53333333
8100	0.016	17.4
8160	0.016	17.26666667
8220	0.016	17.13333333
8280	0.016	16.93333333
8340	0.016	16.8
8400	0.016	16.66666667
8460	0.016	16.4
8520	0.016	16.13333333
8580	0.016	16.06666667
8640	0.016	16
8700	0.017	16.06666667
8760	0.016	16.06666667
8820	0.017	16.13333333
8880	0.016	16.13333333
8940	0.016	16.13333333
9000	0.017	16.2
9060	0.016	16.2
9120	0.016	16.2
9180	0.016	16.2
9240	0.016	16.2
9300	0.016	16.2
9360	0.016	16.2
9420	0.016	16.2
9480	0.016	16.2
9540	0.016	16.2
9600	0.016	16.13333333
9660	0.016	16.13333333
9720	0.016	16.06666667
9780	0.016	16.06666667
9840	0.016	16.06666667
9900	0.015	15.93333333
9960	0.015	15.86666667
10020	0.016	15.86666667
10080	0.016	15.86666667

10140	0.016	15.86666667
10200	0.016	15.86666667
10260	0.016	15.86666667
10320	0.021	16.2
10380	0.02	16.46666667
10440	0.017	16.53333333
10500	0.015	16.46666667
10560	0.018	16.6
10620	0.018	16.73333333
10680	0.019	16.93333333
10740	0.024	17.46666667
10800	0.019	17.73333333
10860	0.016	17.8
10920	0.015	17.73333333
10980	0.015	17.66666667
11040	0.015	17.6
11100	0.015	17.53333333
11160	0.016	17.53333333
11220	0.018	17.33333333
11280	0.018	17.2
11340	0.015	17.06666667
11400	0.015	17.06666667
11460	0.015	16.86666667
11520	0.015	16.66666667
11580	0.015	16.4
11640	0.015	15.8
11700	0.015	15.53333333
11760	0.014	15.4
11820	0.013	15.26666667
11880	0.014	15.2
11940	0.014	15.13333333
12000	0.014	15.06666667
12060	0.016	15.06666667
12120	0.014	14.8
12180	0.014	14.53333333
12240	0.021	14.93333333
12300	0.014	14.86666667
12360	0.014	14.8
12420	0.014	14.73333333
12480	0.015	14.73333333
12540	0.015	14.73333333
12600	0.016	14.8
12660	0.017	15
12720	0.016	15.2
12780	0.017	15.4
12840	0.016	15.53333333
12900	0.016	15.66666667

12960	0.016	15.66666667
13020	0.016	15.8
13080	0.016	15.93333333
13140	0.016	15.6
13200	0.016	15.73333333
13260	0.016	15.86666667
13320	0.017	16.06666667
13380	0.018	16.26666667
13440	0.016	16.33333333
13500	0.016	16.33333333
13560	0.016	16.26666667
13620	0.017	16.33333333
13680	0.017	16.33333333
13740	0.017	16.4
13800	0.016	16.4
13860	0.016	16.4
13920	0.016	16.4
13980	0.016	16.4
14040	0.018	16.53333333
14100	0.016	16.53333333
14160	0.017	16.6
14220	0.017	16.6
14280	0.016	16.46666667
14340	0.016	16.46666667
14400	0.017	16.53333333
14460	0.017	16.6
14520	0.016	16.53333333
14580	0.016	16.46666667
14640	0.016	16.4
14700	0.016	16.4
14760	0.016	16.4
14820	0.016	16.4
14880	0.016	16.4
14940	0.016	16.26666667
15000	0.016	16.26666667
15060	0.016	16.2
15120	0.016	16.13333333
15180	0.016	16.13333333
15240	0.015	16.06666667
15300	0.016	16
15360	0.016	15.93333333
15420	0.016	15.93333333
15480	0.017	16
15540	0.016	16
15600	0.016	16
15660	0.016	16
15720	0.016	16

15780	0.02	16.26666667
15840	0.019	16.46666667
15900	0.018	16.6
15960	0.017	16.66666667
16020	0.017	16.73333333
16080	0.017	16.8
16140	0.017	16.93333333
16200	0.017	17
16260	0.016	17
16320	0.016	17
16380	0.016	16.93333333
16440	0.016	16.93333333
16500	0.016	16.93333333
16560	0.016	16.93333333
16620	0.016	16.93333333
16680	0.016	16.66666667
16740	0.016	16.46666667
16800	0.015	16.26666667
16860	0.016	16.2
16920	0.015	16.06666667
16980	0.015	15.93333333
17040	0.015	15.8
17100	0.015	15.66666667
17160	0.015	15.6
17220	0.015	15.53333333
17280	0.015	15.46666667
17340	0.015	15.4
17400	0.016	15.4
17460	0.015	15.33333333
17520	0.015	15.26666667
17580	0.016	15.26666667
17640	0.016	15.26666667
17700	0.016	15.33333333
17760	0.016	15.33333333
17820	0.016	15.4
17880	0.016	15.46666667
17940	0.016	15.53333333
18000	0.016	15.6
18060	0.016	15.66666667
18120	0.016	15.73333333
18180	0.017	15.86666667
18240	0.016	15.93333333
18300	0.016	15.93333333
18360	0.016	16
18420	0.015	16
18480	0.015	15.93333333
18540	0.015	15.86666667

18600	0.015	15.8
18660	0.015	15.73333333
18720	0.015	15.66666667
18780	0.015	15.6
18840	0.014	15.46666667
18900	0.016	15.46666667
18960	0.015	15.4
19020	0.014	15.26666667
19080	0.014	15.06666667
19140	0.014	14.93333333
19200	0.013	14.73333333
19260	0.013	14.53333333
19320	0.013	14.4
19380	0.013	14.26666667
19440	0.013	14.13333333
19500	0.013	14
19560	0.013	13.86666667
19620	0.013	13.73333333
19680	0.014	13.66666667
19740	0.015	13.73333333
19800	0.014	13.6
19860	0.014	13.53333333
19920	0.014	13.53333333
19980	0.017	13.73333333
20040	0.015	13.8
20100	0.015	13.93333333
20160	0.014	14
20220	0.015	14.13333333
20280	0.014	14.2
20340	0.014	14.26666667
20400	0.019	14.66666667
20460	0.014	14.73333333
20520	0.014	14.8
20580	0.019	15.13333333
20640	0.023	15.66666667
20700	0.015	15.73333333
20760	0.014	15.73333333
20820	0.014	15.73333333
20880	0.014	15.53333333
20940	0.016	15.6
21000	0.017	15.73333333
21060	0.015	15.8
21120	0.015	15.8
21180	0.014	15.8
21240	0.014	15.8
21300	0.014	15.46666667
21360	0.014	15.46666667

21420	0.014	15.46666667
21480	0.013	15.06666667
21540	0.013	14.4
21600	0.013	14.26666667
21660	0.013	14.2
21720	0.013	14.13333333
21780	0.013	14.06666667
21840	0.013	13.86666667
21900	0.013	13.6
21960	0.013	13.46666667
22020	0.013	13.33333333
22080	0.013	13.26666667
22140	0.013	13.2
22200	0.013	13.13333333
22260	0.013	13.06666667
22320	0.013	13
22380	0.013	13
22440	0.013	13
22500	0.013	13
22560	0.014	13.06666667
22620	0.014	13.13333333
22680	0.014	13.2
22740	0.014	13.26666667
22800	0.014	13.33333333
22860	0.014	13.4
22920	0.014	13.46666667
22980	0.014	13.53333333
23040	0.014	13.6
23100	0.014	13.66666667
23160	0.015	13.8
23220	0.014	13.86666667
23280	0.015	14
23340	0.015	14.13333333
23400	0.015	14.26666667
23460	0.015	14.33333333
23520	0.014	14.33333333
23580	0.015	14.4
23640	0.015	14.46666667
23700	0.018	14.73333333
23760	0.019	15.06666667
23820	0.018	15.33333333
23880	0.015	15.4
23940	0.016	15.53333333
24000	0.014	15.53333333
24060	0.014	15.46666667
24120	0.014	15.46666667
24180	0.015	15.46666667

24240	0.014	15.4
24300	0.015	15.4
24360	0.014	15.33333333
24420	0.015	15.4
24480	0.015	15.4
24540	0.015	15.4
24600	0.017	15.33333333
24660	0.015	15.06666667
24720	0.015	14.86666667
24780	0.015	14.86666667
24840	0.017	14.93333333
24900	0.017	15.13333333
24960	0.015	15.2
25020	0.015	15.26666667
25080	0.017	15.4
25140	0.015	15.46666667
25200	0.015	15.46666667
25260	0.015	15.53333333
25320	0.015	15.53333333
25380	0.014	15.46666667
25440	0.015	15.46666667
25500	0.015	15.33333333
25560	0.016	15.4
25620	0.021	15.8
25680	0.018	16
25740	0.016	15.93333333
25800	0.015	15.8
25860	0.015	15.8
25920	0.015	15.8
25980	0.018	15.86666667
26040	0.016	15.93333333
26100	0.016	16
26160	0.016	16.06666667
26220	0.017	16.2
26280	0.015	16.26666667
26340	0.015	16.26666667
26400	0.015	16.26666667
26460	0.015	16.2
26520	0.015	15.8
26580	0.015	15.6
26640	0.015	15.53333333
26700	0.015	15.53333333
26760	0.015	15.53333333
26820	0.015	15.53333333
26880	0.015	15.33333333
26940	0.015	15.26666667
27000	0.015	15.2

27060	0.017	15.26666667
27120	0.015	15.13333333
27180	0.015	15.13333333
27240	0.014	15.06666667
27300	0.016	15.13333333
27360	0.015	15.13333333
27420	0.015	15.13333333
27480	0.015	15.13333333
27540	0.015	15.13333333
27600	0.014	15.06666667
27660	0.014	15
27720	0.015	15
27780	0.015	15
27840	0.014	14.93333333
27900	0.015	14.93333333
27960	0.015	14.8
28020	0.014	14.73333333
28080	0.016	14.8
28140	0.018	15.06666667
28200	0.014	14.93333333
36549	0	13.93333333
36600	0.018	14.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_012
Test Start Time	6:47:28 AM
Test Start Date	6/18/2020
Test Length [D:H:M]	0:08:04
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.009
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.088
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	484

Max Instant Conc.	Max 15 min TWA Conc.
88	17.26666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.088			
120	0.005			
180	0.004			
240	0.002			
300	0.002			
360	0.002			
420	0.003			
480	0.003			
540	0.002			
600	0.003			
660	0.002			
720	0.002			
780	0.002			
840	0.002			
900	0.002			8.266666667
960	0.002			2.533333333
1020	0.002			2.333333333
1080	0.002			2.2
1140	0.002			2.2
1200	0.002			2.2
1260	0.002			2.2
1320	0.002			2.133333333
1380	0.002			2.066666667
1440	0.002			2.066666667
1500	0.002			2
1560	0.001			1.933333333
1620	0.002			1.933333333

1680	0.002	1.933333333
1740	0.002	1.933333333
1800	0.002	1.933333333
1860	0.002	1.933333333
1920	0.002	1.933333333
1980	0.002	1.933333333
2040	0.002	1.933333333
2100	0.002	1.933333333
2160	0.002	1.933333333
2220	0.002	1.933333333
2280	0.002	1.933333333
2340	0.002	1.933333333
2400	0.002	1.933333333
2460	0.001	1.933333333
2520	0.002	1.933333333
2580	0.002	1.933333333
2640	0.002	1.933333333
2700	0.002	1.933333333
2760	0.002	1.933333333
2820	0.002	1.933333333
2880	0.002	1.933333333
2940	0.002	1.933333333
3000	0.002	1.933333333
3060	0.003	2
3120	0.003	2.066666667
3180	0.003	2.133333333
3240	0.003	2.2
3300	0.003	2.266666667
3360	0.003	2.4
3420	0.002	2.4
3480	0.002	2.4
3540	0.002	2.4
3600	0.003	2.466666667
3660	0.003	2.533333333
3720	0.003	2.6
3780	0.003	2.666666667
3840	0.003	2.733333333
3900	0.003	2.8
3960	0.004	2.866666667
4020	0.003	2.866666667
4080	0.003	2.866666667
4140	0.004	2.933333333
4200	0.005	3.066666667
4260	0.004	3.133333333
4320	0.003	3.2
4380	0.003	3.266666667
4440	0.003	3.333333333

4500	0.003	3.333333333
4560	0.004	3.4
4620	0.003	3.4
4680	0.004	3.466666667
4740	0.004	3.533333333
4800	0.004	3.6
4860	0.004	3.6
4920	0.004	3.666666667
4980	0.004	3.733333333
5040	0.004	3.733333333
5100	0.004	3.666666667
5160	0.004	3.666666667
5220	0.004	3.733333333
5280	0.004	3.8
5340	0.004	3.866666667
5400	0.004	3.933333333
5460	0.004	3.933333333
5520	0.005	4.066666667
5580	0.006	4.2
5640	0.006	4.333333333
5700	0.005	4.4
5760	0.005	4.466666667
5820	0.005	4.533333333
5880	0.005	4.6
5940	0.005	4.666666667
6000	0.005	4.733333333
6060	0.006	4.866666667
6120	0.006	5
6180	0.006	5.133333333
6240	0.006	5.266666667
6300	0.007	5.466666667
6360	0.007	5.666666667
6420	0.007	5.8
6480	0.006	5.8
6540	0.006	5.8
6600	0.006	5.866666667
6660	0.006	5.933333333
6720	0.006	6
6780	0.006	6.066666667
6840	0.007	6.2
6900	0.006	6.266666667
6960	0.007	6.333333333
7020	0.006	6.333333333
7080	0.006	6.333333333
7140	0.006	6.333333333
7200	0.007	6.333333333
7260	0.007	6.333333333

7320	0.012	6.666666667
7380	0.006	6.666666667
7440	0.007	6.733333333
7500	0.008	6.866666667
7560	0.008	7
7620	0.008	7.133333333
7680	0.008	7.266666667
7740	0.008	7.333333333
7800	0.008	7.466666667
7860	0.008	7.533333333
7920	0.008	7.666666667
7980	0.008	7.8
8040	0.008	7.933333333
8100	0.008	8
8160	0.008	8.066666667
8220	0.008	7.8
8280	0.008	7.933333333
8340	0.008	8
8400	0.008	8
8460	0.008	8
8520	0.008	8
8580	0.008	8
8640	0.008	8
8700	0.008	8
8760	0.008	8
8820	0.009	8.066666667
8880	0.009	8.133333333
8940	0.009	8.2
9000	0.01	8.333333333
9060	0.01	8.466666667
9120	0.01	8.6
9180	0.011	8.8
9240	0.011	9
9300	0.01	9.133333333
9360	0.01	9.266666667
9420	0.01	9.4
9480	0.01	9.533333333
9540	0.011	9.733333333
9600	0.011	9.933333333
9660	0.011	10.13333333
9720	0.01	10.2
9780	0.01	10.26666667
9840	0.011	10.4
9900	0.009	10.33333333
9960	0.009	10.26666667
10020	0.009	10.2
10080	0.009	10.06666667

10140	0.009	9.933333333
10200	0.009	9.866666667
10260	0.009	9.8
10320	0.009	9.733333333
10380	0.009	9.666666667
10440	0.009	9.533333333
10500	0.009	9.4
10560	0.009	9.266666667
10620	0.017	9.733333333
10680	0.01	9.733333333
10740	0.009	9.6
10800	0.009	9.6
10860	0.009	9.6
10920	0.009	9.6
10980	0.009	9.6
11040	0.009	9.6
11100	0.009	9.6
11160	0.009	9.6
11220	0.009	9.6
11280	0.009	9.6
11340	0.009	9.6
11400	0.009	9.6
11460	0.009	9.6
11520	0.009	9.066666667
11580	0.009	9
11640	0.009	9
11700	0.009	9
11760	0.009	9
11820	0.009	9
11880	0.009	9
11940	0.01	9.066666667
12000	0.009	9.066666667
12060	0.009	9.066666667
12120	0.009	9.066666667
12180	0.008	9
12240	0.008	8.933333333
12300	0.008	8.866666667
12360	0.009	8.866666667
12420	0.008	8.8
12480	0.009	8.8
12540	0.009	8.8
12600	0.009	8.8
12660	0.009	8.8
12720	0.009	8.8
12780	0.009	8.8
12840	0.009	8.733333333
12900	0.009	8.733333333

12960	0.009	8.733333333
13020	0.009	8.733333333
13080	0.009	8.8
13140	0.009	8.866666667
13200	0.009	8.933333333
13260	0.009	8.933333333
13320	0.009	9
13380	0.008	8.933333333
13440	0.009	8.933333333
13500	0.009	8.933333333
13560	0.009	8.933333333
13620	0.009	8.933333333
13680	0.009	8.933333333
13740	0.009	8.933333333
13800	0.009	8.933333333
13860	0.009	8.933333333
13920	0.009	8.933333333
13980	0.01	9
14040	0.01	9.066666667
14100	0.01	9.133333333
14160	0.01	9.2
14220	0.01	9.266666667
14280	0.01	9.4
14340	0.01	9.466666667
14400	0.011	9.6
14460	0.01	9.666666667
14520	0.01	9.733333333
14580	0.01	9.8
14640	0.01	9.866666667
14700	0.009	9.866666667
14760	0.01	9.933333333
14820	0.01	10
14880	0.01	10
14940	0.01	10
15000	0.01	10
15060	0.01	10
15120	0.01	10
15180	0.01	10
15240	0.011	10.06666667
15300	0.011	10.06666667
15360	0.011	10.13333333
15420	0.011	10.2
15480	0.011	10.26666667
15540	0.013	10.46666667
15600	0.012	10.66666667
15660	0.011	10.73333333
15720	0.011	10.8

15780	0.011	10.86666667
15840	0.011	10.93333333
15900	0.011	11
15960	0.011	11.06666667
16020	0.011	11.13333333
16080	0.011	11.2
16140	0.011	11.2
16200	0.011	11.2
16260	0.011	11.2
16320	0.011	11.2
16380	0.011	11.2
16440	0.011	11.06666667
16500	0.011	11
16560	0.011	11
16620	0.011	11
16680	0.011	11
16740	0.011	11
16800	0.011	11
16860	0.011	11
16920	0.011	11
16980	0.011	11
17040	0.011	11
17100	0.011	11
17160	0.011	11
17220	0.011	11
17280	0.012	11.06666667
17340	0.011	11.06666667
17400	0.011	11.06666667
17460	0.012	11.13333333
17520	0.012	11.2
17580	0.011	11.2
17640	0.011	11.2
17700	0.011	11.2
17760	0.011	11.2
17820	0.011	11.2
17880	0.011	11.2
17940	0.011	11.2
18000	0.011	11.2
18060	0.011	11.2
18120	0.011	11.2
18180	0.012	11.2
18240	0.012	11.26666667
18300	0.014	11.46666667
18360	0.012	11.46666667
18420	0.012	11.46666667
18480	0.011	11.46666667
18540	0.012	11.53333333

18600	0.012	11.6
18660	0.015	11.86666667
18720	0.012	11.93333333
18780	0.011	11.93333333
18840	0.01	11.86666667
18900	0.01	11.8
18960	0.01	11.73333333
19020	0.01	11.66666667
19080	0.012	11.66666667
19140	0.011	11.6
19200	0.011	11.4
19260	0.011	11.33333333
19320	0.011	11.26666667
19380	0.011	11.26666667
19440	0.011	11.2
19500	0.011	11.13333333
19560	0.012	10.93333333
19620	0.012	10.93333333
19680	0.012	11
19740	0.012	11.13333333
19800	0.013	11.33333333
19860	0.013	11.53333333
19920	0.013	11.73333333
19980	0.013	11.8
20040	0.013	11.93333333
20100	0.014	12.13333333
20160	0.013	12.26666667
20220	0.013	12.4
20280	0.014	12.6
20340	0.014	12.8
20400	0.014	13
20460	0.014	13.13333333
20520	0.014	13.26666667
20580	0.014	13.4
20640	0.014	13.53333333
20700	0.018	13.86666667
20760	0.018	14.2
20820	0.019	14.6
20880	0.018	14.93333333
20940	0.018	15.26666667
21000	0.018	15.53333333
21060	0.018	15.86666667
21120	0.018	16.2
21180	0.018	16.46666667
21240	0.018	16.73333333
21300	0.017	16.93333333
21360	0.017	17.13333333

21420	0.015	17.2
21480	0.015	17.26666667
21540	0.014	17.26666667
21600	0.014	17
21660	0.014	16.73333333
21720	0.014	16.4
21780	0.014	16.13333333
21840	0.013	15.8
21900	0.013	15.46666667
21960	0.013	15.13333333
22020	0.013	14.8
22080	0.013	14.46666667
22140	0.012	14.06666667
22200	0.012	13.73333333
22260	0.012	13.4
22320	0.012	13.2
22380	0.012	13
22440	0.012	12.86666667
22500	0.012	12.73333333
22560	0.012	12.6
22620	0.012	12.46666667
22680	0.012	12.33333333
22740	0.012	12.26666667
22800	0.012	12.2
22860	0.012	12.13333333
22920	0.012	12.06666667
22980	0.012	12
23040	0.012	12
23100	0.011	11.93333333
23160	0.012	11.93333333
23220	0.012	11.93333333
23280	0.012	11.93333333
23340	0.012	11.93333333
23400	0.012	11.93333333
23460	0.012	11.93333333
23520	0.012	11.93333333
23580	0.013	12
23640	0.012	12
23700	0.013	12.06666667
23760	0.012	12.06666667
23820	0.012	12.06666667
23880	0.013	12.13333333
23940	0.013	12.2
24000	0.013	12.33333333
24060	0.013	12.4
24120	0.013	12.46666667
24180	0.013	12.53333333

24240	0.013	12.6
24300	0.013	12.66666667
24360	0.013	12.73333333
24420	0.013	12.8
24480	0.013	12.8
24540	0.013	12.86666667
24600	0.013	12.86666667
24660	0.013	12.93333333
24720	0.013	13
24780	0.013	13
24840	0.012	12.93333333
24900	0.012	12.86666667
24960	0.013	12.86666667
25020	0.012	12.8
25080	0.012	12.73333333
25140	0.012	12.66666667
25200	0.012	12.6
25260	0.012	12.53333333
25320	0.012	12.46666667
25380	0.012	12.4
25440	0.011	12.26666667
25500	0.011	12.13333333
25560	0.011	12
25620	0.011	11.86666667
25680	0.011	11.73333333
25740	0.012	11.73333333
25800	0.012	11.73333333
25860	0.011	11.6
25920	0.012	11.6
25980	0.011	11.53333333
26040	0.011	11.46666667
26100	0.011	11.4
26160	0.011	11.33333333
26220	0.011	11.26666667
26280	0.011	11.2
26340	0.011	11.2
26400	0.011	11.2
26460	0.011	11.2
26520	0.011	11.2
26580	0.011	11.2
26640	0.011	11.13333333
26700	0.011	11.06666667
26760	0.011	11.06666667
26820	0.011	11
26880	0.011	11
26940	0.01	10.93333333
27000	0.011	10.93333333

27060	0.01	10.86666667
27120	0.01	10.8
27180	0.01	10.73333333
27240	0.01	10.66666667
27300	0.011	10.66666667
27360	0.01	10.6
27420	0.011	10.6
27480	0.011	10.6
27540	0.011	10.6
27600	0.011	10.6
27660	0.015	10.86666667
27720	0.011	10.86666667
27780	0.015	11.13333333
27840	0.01	11.13333333
27900	0.01	11.06666667
27960	0.011	11.13333333
28020	0.011	11.2
28080	0.011	11.26666667
28140	0.01	11.26666667
28200	0.01	11.2
28260	0.01	11.2
28320	0.01	11.13333333
28380	0.01	11.06666667
28440	0.01	11
28500	0.01	10.93333333
28560	0.01	10.6
28620	0.01	10.53333333
28680	0.01	10.2
28740	0.01	10.2
28800	0.01	10.2
28860	0.011	10.2
28920	0.01	10.13333333
28980	0.01	10.06666667
29040	0.011	10.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_013
Test Start Time	10:16:49 AM
Test Start Date	6/19/2020
Test Length [D:H:M]	0:07:34
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.012
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.034
Mass TWA [mg/m3]	0.012
Photometric User Cal	1
Flow User Cal	0
Errors	Max Concentration
Number of Samples	211

Max Instant Conc.	Max 15 min TWA Conc.
34	14.93333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.012		Max Concentration	
120	0.01		Max Concentration	
180	0.008		Max Concentration	
240	0.008		Max Concentration	
300	0.008		Max Concentration	
360	0.009		Max Concentration	
420	0.034		Max Concentration	
480	0.027		Max Concentration	
540	0.012		Max Concentration	
600	0.009		Max Concentration	
660	0.008		Max Concentration	
720	0.008		Max Concentration	
780	0.022		Max Concentration	
840	0.011		Max Concentration	
900	0.009		Max Concentration	13
960	0.009		Max Concentration	12.8
1020	0.01		Max Concentration	12.8
1080	0.009		Max Concentration	12.86666667
1140	0.01		Max Concentration	13
1200	0.01		Max Concentration	13.13333333
1260	0.01		Max Concentration	13.2
1320	0.01		Max Concentration	11.6
1380	0.01		Max Concentration	10.46666667
1440	0.01		Max Concentration	10.33333333
1500	0.01		Max Concentration	10.4
1560	0.01		Max Concentration	10.53333333
1620	0.01		Max Concentration	10.66666667
1680	0.01		Max Concentration	9.866666667
1740	0.01		Max Concentration	9.8
1800	0.01		Max Concentration	9.866666667
1860	0.01		Max Concentration	9.933333333
1920	0.01		Max Concentration	9.933333333
1980	0.01		Max Concentration	10
2040	0.01		Max Concentration	10
2100	0.01		Max Concentration	10

2160	0.01	Max Concentration	10
2220	0.01	Max Concentration	10
2280	0.01	Max Concentration	10
2340	0.011	Max Concentration	10.06666667
2400	0.011	Max Concentration	10.13333333
2460	0.011	Max Concentration	10.2
2520	0.011	Max Concentration	10.26666667
2580	0.01	Max Concentration	10.26666667
2640	0.01	Max Concentration	10.26666667
2700	0.016	Max Concentration	10.66666667
2760	0.011	Max Concentration	10.73333333
2820	0.011	Max Concentration	10.8
2880	0.011	Max Concentration	10.86666667
2940	0.011	Max Concentration	10.93333333
3000	0.011	Max Concentration	11
3060	0.011	Max Concentration	11.06666667
3120	0.01	Max Concentration	11.06666667
3180	0.01	Max Concentration	11.06666667
3240	0.011	Max Concentration	11.06666667
3300	0.01	Max Concentration	11
3360	0.01	Max Concentration	10.93333333
3420	0.011	Max Concentration	10.93333333
3480	0.011	Max Concentration	11
3540	0.011	Max Concentration	11.06666667
3600	0.011	Max Concentration	10.73333333
3660	0.011	Max Concentration	10.73333333
3720	0.011	Max Concentration	10.73333333
3780	0.011	Max Concentration	10.73333333
3840	0.011	Max Concentration	10.73333333
3900	0.011	Max Concentration	10.73333333
3960	0.011	Max Concentration	10.73333333
4020	0.011	Max Concentration	10.8
4080	0.012	Max Concentration	10.93333333
4140	0.012	Max Concentration	11
4200	0.012	Max Concentration	11.13333333
4260	0.012	Max Concentration	11.26666667
4320	0.012	Max Concentration	11.33333333
4380	0.012	Max Concentration	11.4
4440	0.012	Max Concentration	11.46666667
4500	0.011	Max Concentration	11.46666667
4560	0.011	Max Concentration	11.46666667
4620	0.011	Max Concentration	11.46666667
4680	0.011	Max Concentration	11.46666667
4740	0.011	Max Concentration	11.46666667
4800	0.011	Max Concentration	11.46666667
4860	0.011	Max Concentration	11.46666667
4920	0.011	Max Concentration	11.46666667
4980	0.011	Max Concentration	11.4
5040	0.011	Max Concentration	11.33333333
5100	0.011	Max Concentration	11.26666667
5160	0.011	Max Concentration	11.2
5220	0.011	Max Concentration	11.13333333
5280	0.011	Max Concentration	11.06666667
5340	0.011	Max Concentration	11
5400	0.01	Max Concentration	10.93333333

5460	0.01	Max Concentration	10.86666667
5520	0.01	Max Concentration	10.8
5580	0.01	Max Concentration	10.73333333
5640	0.012	Max Concentration	10.8
5700	0.011	Max Concentration	10.8
5760	0.012	Max Concentration	10.86666667
5820	0.011	Max Concentration	10.86666667
5880	0.012	Max Concentration	10.93333333
5940	0.012	Max Concentration	11
6000	0.012	Max Concentration	11.06666667
6060	0.02	Max Concentration	11.66666667
6120	0.012	Max Concentration	11.73333333
6180	0.012	Max Concentration	11.8
6240	0.011	Max Concentration	11.8
6300	0.011	Max Concentration	11.86666667
6360	0.012	Max Concentration	12
6420	0.013	Max Concentration	12.2
6480	0.012	Max Concentration	12.33333333
6540	0.014	Max Concentration	12.46666667
6600	0.012	Max Concentration	12.53333333
6660	0.014	Max Concentration	12.66666667
6720	0.013	Max Concentration	12.8
6780	0.013	Max Concentration	12.86666667
6840	0.013	Max Concentration	12.93333333
6900	0.012	Max Concentration	12.93333333
6960	0.012	Max Concentration	12.4
7020	0.013	Max Concentration	12.46666667
7080	0.012	Max Concentration	12.46666667
7140	0.012	Max Concentration	12.53333333
7200	0.011	Max Concentration	12.53333333
7260	0.012	Max Concentration	12.53333333
7320	0.012	Max Concentration	12.46666667
7380	0.012	Max Concentration	12.46666667
7440	0.013	Max Concentration	12.4
7500	0.014	Max Concentration	12.53333333
7560	0.016	Max Concentration	12.66666667
7620	0.013	Max Concentration	12.66666667
7680	0.012	Max Concentration	12.6
7740	0.013	Max Concentration	12.6
7800	0.014	Max Concentration	12.73333333
7860	0.014	Max Concentration	12.86666667
7920	0.013	Max Concentration	12.86666667
7980	0.015	Max Concentration	13.06666667
8040	0.016	Max Concentration	13.33333333
8100	0.015	Max Concentration	13.6
8160	0.014	Max Concentration	13.73333333
8220	0.012	Max Concentration	13.73333333
8280	0.012	Max Concentration	13.73333333
8340	0.012	Max Concentration	13.66666667
8400	0.013	Max Concentration	13.6
8460	0.012	Max Concentration	13.33333333
8520	0.012	Max Concentration	13.26666667
8580	0.016	Max Concentration	13.53333333
8640	0.012	Max Concentration	13.46666667
8700	0.012	Max Concentration	13.33333333

8760	0.013	Max Concentration	13.26666667
8820	0.012	Max Concentration	13.2
8880	0.012	Max Concentration	13
8940	0.013	Max Concentration	12.8
9000	0.012	Max Concentration	12.6
9060	0.012	Max Concentration	12.46666667
9120	0.014	Max Concentration	12.6
9180	0.012	Max Concentration	12.6
9240	0.012	Max Concentration	12.6
9300	0.012	Max Concentration	12.53333333
9360	0.012	Max Concentration	12.53333333
9420	0.012	Max Concentration	12.53333333
9480	0.012	Max Concentration	12.26666667
9540	0.012	Max Concentration	12.26666667
9600	0.015	Max Concentration	12.46666667
9660	0.013	Max Concentration	12.46666667
9720	0.012	Max Concentration	12.46666667
9780	0.013	Max Concentration	12.53333333
9840	0.013	Max Concentration	12.53333333
9900	0.012	Max Concentration	12.53333333
9960	0.013	Max Concentration	12.6
10020	0.013	Max Concentration	12.53333333
10080	0.015	Max Concentration	12.73333333
10140	0.014	Max Concentration	12.86666667
10200	0.014	Max Concentration	13
10260	0.014	Max Concentration	13.13333333
10320	0.014	Max Concentration	13.26666667
10380	0.014	Max Concentration	13.4
10440	0.015	Max Concentration	13.6
10500	0.015	Max Concentration	13.6
10560	0.015	Max Concentration	13.73333333
10620	0.014	Max Concentration	13.86666667
10680	0.013	Max Concentration	13.86666667
10740	0.014	Max Concentration	13.93333333
10800	0.014	Max Concentration	14.06666667
10860	0.014	Max Concentration	14.13333333
10920	0.014	Max Concentration	14.2
10980	0.014	Max Concentration	14.13333333
11040	0.013	Max Concentration	14.06666667
11100	0.013	Max Concentration	14
11160	0.013	Max Concentration	13.93333333
11220	0.013	Max Concentration	13.86666667
11280	0.016	Max Concentration	14
11340	0.014	Max Concentration	13.93333333
11400	0.013	Max Concentration	13.8
11460	0.013	Max Concentration	13.66666667
11520	0.013	Max Concentration	13.6
11580	0.014	Max Concentration	13.66666667
11640	0.013	Max Concentration	13.6
11700	0.014	Max Concentration	13.6
11760	0.015	Max Concentration	13.66666667
11820	0.014	Max Concentration	13.66666667
11880	0.014	Max Concentration	13.66666667
11940	0.014	Max Concentration	13.73333333
12000	0.014	Max Concentration	13.8

12060	0.014	Max Concentration	13.86666667
12120	0.015	Max Concentration	14
12180	0.016	Max Concentration	14
12240	0.016	Max Concentration	14.13333333
12300	0.015	Max Concentration	14.26666667
12360	0.015	Max Concentration	14.4
12420	0.017	Max Concentration	14.66666667
12480	0.015	Max Concentration	14.73333333
12540	0.015	Max Concentration	14.86666667
12600	0.015	Max Concentration	14.93333333
27285	0		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_014
Test Start Time	7:07:06 AM
Test Start Date	6/22/2020
Test Length [D:H:M]	0:06:01
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.023
Mass Minimum [mg/m3]	0.018
Mass Maximum [mg/m3]	0.136
Mass TWA [mg/m3]	0.017
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	361

Max Instant Conc.	Max 15 min TWA Conc.
136	34.4

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.023			
120	0.019			
180	0.019			
240	0.019			
300	0.019			
360	0.019			
420	0.019			
480	0.019			
540	0.019			
600	0.019			
660	0.019			
720	0.019			
780	0.019			
840	0.019			
900	0.019			19.26666667
960	0.019			19
1020	0.02			19.06666667
1080	0.019			19.06666667
1140	0.018			19
1200	0.018			18.93333333
1260	0.136			26.73333333
1320	0.026			27.2
1380	0.018			27.13333333
1440	0.018			27.06666667
1500	0.018			27
1560	0.018			26.93333333
1620	0.018			26.86666667

1680	0.018	26.8
1740	0.018	26.73333333
1800	0.018	26.66666667
1860	0.018	26.6
1920	0.018	26.46666667
1980	0.019	26.46666667
2040	0.018	26.46666667
2100	0.018	26.46666667
2160	0.018	18.6
2220	0.018	18.06666667
2280	0.018	18.06666667
2340	0.018	18.06666667
2400	0.018	18.06666667
2460	0.018	18.06666667
2520	0.019	18.13333333
2580	0.019	18.2
2640	0.019	18.26666667
2700	0.019	18.33333333
2760	0.018	18.33333333
2820	0.019	18.4
2880	0.018	18.33333333
2940	0.019	18.4
3000	0.019	18.46666667
3060	0.019	18.53333333
3120	0.018	18.53333333
3180	0.019	18.6
3240	0.02	18.73333333
3300	0.02	18.86666667
3360	0.02	19
3420	0.02	19.06666667
3480	0.019	19.06666667
3540	0.019	19.06666667
3600	0.019	19.06666667
3660	0.019	19.13333333
3720	0.019	19.13333333
3780	0.019	19.2
3840	0.02	19.26666667
3900	0.02	19.33333333
3960	0.02	19.4
4020	0.02	19.53333333
4080	0.02	19.6
4140	0.019	19.53333333
4200	0.019	19.46666667
4260	0.019	19.4
4320	0.034	20.33333333
4380	0.021	20.46666667
4440	0.021	20.6

4500	0.036	21.73333333
4560	0.021	21.86666667
4620	0.021	22
4680	0.02	22.06666667
4740	0.02	22.06666667
4800	0.02	22.06666667
4860	0.02	22.06666667
4920	0.02	22.06666667
4980	0.02	22.06666667
5040	0.021	22.2
5100	0.021	22.33333333
5160	0.022	22.53333333
5220	0.031	22.33333333
5280	0.022	22.4
5340	0.025	22.66666667
5400	0.021	21.66666667
5460	0.021	21.66666667
5520	0.02	21.6
5580	0.02	21.6
5640	0.02	21.6
5700	0.021	21.66666667
5760	0.02	21.66666667
5820	0.02	21.66666667
5880	0.021	21.73333333
5940	0.021	21.73333333
6000	0.02	21.66666667
6060	0.021	21.6
6120	0.021	20.93333333
6180	0.02	20.8
6240	0.02	20.46666667
6300	0.02	20.4
6360	0.02	20.33333333
6420	0.021	20.4
6480	0.02	20.4
6540	0.02	20.4
6600	0.02	20.33333333
6660	0.02	20.33333333
6720	0.02	20.33333333
6780	0.02	20.26666667
6840	0.021	20.26666667
6900	0.021	20.33333333
6960	0.021	20.33333333
7020	0.021	20.33333333
7080	0.022	20.46666667
7140	0.023	20.66666667
7200	0.036	21.73333333
7260	0.033	22.6

7320	0.022	22.66666667
7380	0.021	22.73333333
7440	0.021	22.8
7500	0.021	22.86666667
7560	0.021	22.93333333
7620	0.021	23
7680	0.021	23.06666667
7740	0.021	23.06666667
7800	0.021	23.06666667
7860	0.021	23.06666667
7920	0.021	23.06666667
7980	0.021	23
8040	0.022	22.93333333
8100	0.021	21.93333333
8160	0.022	21.2
8220	0.024	21.33333333
8280	0.022	21.4
8340	0.022	21.46666667
8400	0.034	22.33333333
8460	0.036	23.33333333
8520	0.022	23.4
8580	0.07	26.66666667
8640	0.028	27.13333333
8700	0.028	27.6
8760	0.025	27.86666667
8820	0.023	28
8880	0.025	28.26666667
8940	0.022	28.26666667
9000	0.022	28.33333333
9060	0.022	28.33333333
9120	0.026	28.46666667
9180	0.072	31.8
9240	0.053	33.86666667
9300	0.026	33.33333333
9360	0.037	33.4
9420	0.037	34.4
9480	0.023	31.26666667
9540	0.025	31.06666667
9600	0.028	31.06666667
9660	0.024	31
9720	0.023	31
9780	0.023	30.86666667
9840	0.023	30.93333333
9900	0.023	31
9960	0.023	31.06666667
10020	0.023	30.86666667
10080	0.023	27.6

10140	0.023	25.6
10200	0.022	25.33333333
10260	0.023	24.4
10320	0.023	23.46666667
10380	0.023	23.46666667
10440	0.023	23.33333333
10500	0.023	23
10560	0.023	22.93333333
10620	0.023	22.93333333
10680	0.023	22.93333333
10740	0.024	23
10800	0.023	23
10860	0.023	23
10920	0.023	23
10980	0.023	23
11040	0.023	23
11100	0.023	23.06666667
11160	0.023	23.06666667
11220	0.023	23.06666667
11280	0.023	23.06666667
11340	0.023	23.06666667
11400	0.023	23.06666667
11460	0.023	23.06666667
11520	0.023	23.06666667
11580	0.023	23.06666667
11640	0.023	23
11700	0.023	23
11760	0.023	23
11820	0.023	23
11880	0.024	23.06666667
11940	0.024	23.13333333
12000	0.024	23.2
12060	0.024	23.26666667
12120	0.024	23.33333333
12180	0.024	23.4
12240	0.024	23.46666667
12300	0.024	23.53333333
12360	0.023	23.53333333
12420	0.024	23.6
12480	0.023	23.6
12540	0.023	23.6
12600	0.023	23.6
12660	0.023	23.6
12720	0.023	23.6
12780	0.023	23.53333333
12840	0.023	23.46666667
12900	0.023	23.4

12960	0.023	23.33333333
13020	0.023	23.26666667
13080	0.023	23.2
13140	0.023	23.13333333
13200	0.023	23.06666667
13260	0.023	23.06666667
13320	0.023	23
13380	0.024	23.06666667
13440	0.023	23.06666667
13500	0.024	23.13333333
13560	0.023	23.13333333
13620	0.023	23.13333333
13680	0.023	23.13333333
13740	0.023	23.13333333
13800	0.023	23.13333333
13860	0.023	23.13333333
13920	0.023	23.13333333
13980	0.024	23.2
14040	0.023	23.2
14100	0.023	23.2
14160	0.023	23.2
14220	0.023	23.2
14280	0.023	23.13333333
14340	0.023	23.13333333
14400	0.023	23.06666667
14460	0.023	23.06666667
14520	0.022	23
14580	0.022	22.93333333
14640	0.022	22.86666667
14700	0.022	22.8
14760	0.024	22.86666667
14820	0.023	22.86666667
14880	0.036	23.66666667
14940	0.031	24.2
15000	0.031	24.73333333
15060	0.025	24.86666667
15120	0.024	24.93333333
15180	0.023	24.93333333
15240	0.023	24.93333333
15300	0.023	24.93333333
15360	0.022	24.86666667
15420	0.022	24.86666667
15480	0.023	24.93333333
15540	0.023	25
15600	0.023	25.06666667
15660	0.023	25
15720	0.023	25

15780	0.023	24.13333333
15840	0.023	23.6
15900	0.023	23.06666667
15960	0.023	22.93333333
16020	0.023	22.86666667
16080	0.023	22.86666667
16140	0.023	22.86666667
16200	0.023	22.86666667
16260	0.023	22.93333333
16320	0.023	23
16380	0.023	23
16440	0.023	23
16500	0.023	23
16560	0.023	23
16620	0.022	22.93333333
16680	0.024	23
16740	0.024	23.06666667
16800	0.025	23.2
16860	0.024	23.26666667
16920	0.023	23.26666667
16980	0.023	23.26666667
17040	0.023	23.26666667
17100	0.025	23.4
17160	0.024	23.46666667
17220	0.022	23.4
17280	0.022	23.33333333
17340	0.021	23.2
17400	0.021	23.06666667
17460	0.02	22.86666667
17520	0.021	22.8
17580	0.022	22.66666667
17640	0.021	22.46666667
17700	0.022	22.26666667
17760	0.022	22.13333333
17820	0.022	22.06666667
17880	0.022	22
17940	0.022	21.93333333
18000	0.022	21.73333333
18060	0.024	21.73333333
18120	0.022	21.73333333
18180	0.033	22.46666667
18240	0.039	23.66666667
18300	0.022	23.73333333
18360	0.024	24
18420	0.025	24.26666667
18480	0.022	24.26666667
18540	0.021	24.26666667

18600	0.021	24.2
18660	0.022	24.2
18720	0.021	24.13333333
18780	0.021	24.06666667
18840	0.021	24
18900	0.021	23.93333333
18960	0.021	23.73333333
19020	0.021	23.66666667
19080	0.02	22.8
19140	0.021	21.6
19200	0.02	21.46666667
19260	0.022	21.33333333
19320	0.021	21.06666667
19380	0.021	21
19440	0.021	21
19500	0.021	21
19560	0.021	20.93333333
19620	0.021	20.93333333
19680	0.021	20.93333333
19740	0.021	20.93333333
19800	0.021	20.93333333
19860	0.021	20.93333333
19920	0.021	20.93333333
19980	0.021	21
20040	0.021	21
20100	0.022	21.13333333
20160	0.022	21.13333333
20220	0.021	21.13333333
20280	0.022	21.2
20340	0.021	21.2
20400	0.021	21.2
20460	0.022	21.26666667
20520	0.021	21.26666667
20580	0.022	21.33333333
20640	0.021	21.33333333
20700	0.02	21.26666667
20760	0.02	21.2
20820	0.021	21.2
20880	0.021	21.2
20940	0.021	21.2
21000	0.021	21.13333333
21060	0.023	21.2
21120	0.021	21.2
21180	0.021	21.13333333
21240	0.021	21.13333333
21300	0.023	21.26666667
21360	0.023	21.33333333

21420	0.022	21.4
21480	0.021	21.33333333
21540	0.022	21.4
21600	0.022	21.53333333
21660	0.022	21.66666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_015
Test Start Time	8:06:22 AM
Test Start Date	6/23/2020
Test Length [D:H:M]	0:05:58
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.029
Mass Minimum [mg/m3]	0.014
Mass Maximum [mg/m3]	0.046
Mass TWA [mg/m3]	0.021
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	358

Max Instant Conc.	Max 15 min TWA Conc.
46	38

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.033			
120	0.021			
180	0.016			
240	0.015			
300	0.015			
360	0.015			
420	0.015			
480	0.015			
540	0.015			
600	0.015			
660	0.015			
720	0.015			
780	0.015			
840	0.017			
900	0.014			16.73333333
960	0.015			15.53333333
1020	0.015			15.13333333
1080	0.015			15.06666667
1140	0.015			15.06666667
1200	0.015			15.06666667
1260	0.015			15.06666667
1320	0.015			15.06666667
1380	0.015			15.06666667
1440	0.015			15.06666667
1500	0.016			15.13333333
1560	0.016			15.2
1620	0.015			15.2

1680	0.015	15.2
1740	0.016	15.13333333
1800	0.016	15.26666667
1860	0.016	15.33333333
1920	0.017	15.46666667
1980	0.018	15.66666667
2040	0.016	15.73333333
2100	0.018	15.93333333
2160	0.016	16
2220	0.017	16.13333333
2280	0.017	16.26666667
2340	0.017	16.4
2400	0.017	16.46666667
2460	0.017	16.53333333
2520	0.017	16.66666667
2580	0.017	16.8
2640	0.017	16.86666667
2700	0.017	16.93333333
2760	0.017	17
2820	0.017	17
2880	0.018	17
2940	0.018	17.13333333
3000	0.017	17.06666667
3060	0.017	17.13333333
3120	0.017	17.13333333
3180	0.017	17.13333333
3240	0.017	17.13333333
3300	0.018	17.2
3360	0.018	17.26666667
3420	0.021	17.53333333
3480	0.02	17.73333333
3540	0.018	17.8
3600	0.018	17.86666667
3660	0.018	17.93333333
3720	0.017	17.93333333
3780	0.017	17.86666667
3840	0.017	17.8
3900	0.018	17.86666667
3960	0.018	17.93333333
4020	0.018	18
4080	0.018	18.06666667
4140	0.018	18.13333333
4200	0.017	18.06666667
4260	0.019	18.13333333
4320	0.018	17.93333333
4380	0.019	17.86666667
4440	0.019	17.93333333

4500	0.018	17.93333333
4560	0.018	17.93333333
4620	0.018	18
4680	0.018	18.06666667
4740	0.019	18.2
4800	0.019	18.26666667
4860	0.019	18.33333333
4920	0.019	18.4
4980	0.019	18.46666667
5040	0.019	18.53333333
5100	0.019	18.66666667
5160	0.019	18.66666667
5220	0.019	18.73333333
5280	0.019	18.73333333
5340	0.02	18.8
5400	0.02	18.93333333
5460	0.021	19.13333333
5520	0.021	19.33333333
5580	0.023	19.66666667
5640	0.022	19.86666667
5700	0.024	20.2
5760	0.024	20.53333333
5820	0.026	21
5880	0.025	21.4
5940	0.023	21.66666667
6000	0.023	21.93333333
6060	0.024	22.26666667
6120	0.025	22.66666667
6180	0.025	23.06666667
6240	0.027	23.53333333
6300	0.025	23.86666667
6360	0.025	24.13333333
6420	0.026	24.46666667
6480	0.027	24.73333333
6540	0.026	25
6600	0.026	25.13333333
6660	0.026	25.26666667
6720	0.026	25.26666667
6780	0.026	25.33333333
6840	0.026	25.53333333
6900	0.026	25.73333333
6960	0.027	25.93333333
7020	0.027	26.06666667
7080	0.027	26.2
7140	0.027	26.2
7200	0.028	26.4
7260	0.027	26.53333333

7320	0.027	26.6
7380	0.027	26.6
7440	0.027	26.66666667
7500	0.027	26.73333333
7560	0.027	26.8
7620	0.027	26.86666667
7680	0.027	26.93333333
7740	0.029	27.13333333
7800	0.028	27.26666667
7860	0.029	27.4
7920	0.028	27.46666667
7980	0.028	27.53333333
8040	0.029	27.66666667
8100	0.028	27.66666667
8160	0.028	27.73333333
8220	0.03	27.93333333
8280	0.028	28
8340	0.028	28.06666667
8400	0.028	28.13333333
8460	0.028	28.2
8520	0.029	28.33333333
8580	0.028	28.4
8640	0.028	28.33333333
8700	0.027	28.26666667
8760	0.028	28.2
8820	0.028	28.2
8880	0.028	28.2
8940	0.028	28.13333333
9000	0.028	28.13333333
9060	0.029	28.2
9120	0.029	28.13333333
9180	0.029	28.2
9240	0.029	28.26666667
9300	0.029	28.33333333
9360	0.03	28.46666667
9420	0.029	28.46666667
9480	0.028	28.46666667
9540	0.029	28.53333333
9600	0.031	28.8
9660	0.029	28.86666667
9720	0.029	28.93333333
9780	0.029	29
9840	0.029	29.06666667
9900	0.029	29.13333333
9960	0.029	29.13333333
10020	0.029	29.13333333
10080	0.029	29.13333333

10140	0.029	29.13333333
10200	0.029	29.13333333
10260	0.03	29.13333333
10320	0.029	29.13333333
10380	0.029	29.2
10440	0.029	29.2
10500	0.03	29.13333333
10560	0.03	29.2
10620	0.03	29.26666667
10680	0.03	29.33333333
10740	0.03	29.4
10800	0.031	29.53333333
10860	0.03	29.6
10920	0.03	29.66666667
10980	0.03	29.73333333
11040	0.03	29.8
11100	0.03	29.86666667
11160	0.03	29.86666667
11220	0.03	29.93333333
11280	0.03	30
11340	0.03	30.06666667
11400	0.03	30.06666667
11460	0.03	30.06666667
11520	0.03	30.06666667
11580	0.033	30.26666667
11640	0.03	30.26666667
11700	0.03	30.2
11760	0.03	30.2
11820	0.031	30.26666667
11880	0.031	30.33333333
11940	0.031	30.4
12000	0.032	30.53333333
12060	0.032	30.66666667
12120	0.032	30.8
12180	0.034	31.06666667
12240	0.032	31.2
12300	0.032	31.33333333
12360	0.031	31.4
12420	0.032	31.53333333
12480	0.033	31.53333333
12540	0.036	31.93333333
12600	0.033	32.13333333
12660	0.033	32.33333333
12720	0.033	32.46666667
12780	0.035	32.73333333
12840	0.035	33
12900	0.034	33.13333333

12960	0.034	33.26666667
13020	0.034	33.4
13080	0.034	33.4
13140	0.035	33.6
13200	0.035	33.8
13260	0.034	34
13320	0.035	34.2
13380	0.035	34.33333333
13440	0.034	34.2
13500	0.034	34.26666667
13560	0.034	34.33333333
13620	0.035	34.46666667
13680	0.035	34.46666667
13740	0.035	34.46666667
13800	0.035	34.53333333
13860	0.036	34.66666667
13920	0.034	34.66666667
13980	0.036	34.8
14040	0.037	34.93333333
14100	0.033	34.8
14160	0.033	34.73333333
14220	0.033	34.6
14280	0.034	34.53333333
14340	0.033	34.46666667
14400	0.033	34.4
14460	0.033	34.33333333
14520	0.032	34.13333333
14580	0.032	33.93333333
14640	0.033	33.8
14700	0.032	33.6
14760	0.032	33.33333333
14820	0.032	33.2
14880	0.034	33.06666667
14940	0.034	32.86666667
15000	0.033	32.86666667
15060	0.036	33.06666667
15120	0.035	33.2
15180	0.034	33.2
15240	0.035	33.33333333
15300	0.035	33.46666667
15360	0.034	33.53333333
15420	0.046	34.46666667
15480	0.033	34.53333333
15540	0.035	34.66666667
15600	0.034	34.8
15660	0.034	34.93333333
15720	0.034	35.06666667

15780	0.036	35.2
15840	0.036	35.33333333
15900	0.034	35.4
15960	0.035	35.33333333
16020	0.034	35.26666667
16080	0.036	35.4
16140	0.034	35.33333333
16200	0.035	35.33333333
16260	0.037	35.53333333
16320	0.034	34.73333333
16380	0.034	34.8
16440	0.035	34.8
16500	0.037	35
16560	0.034	35
16620	0.034	35
16680	0.034	34.86666667
16740	0.035	34.8
16800	0.035	34.86666667
16860	0.037	35
16920	0.035	35.06666667
16980	0.034	34.93333333
17040	0.034	34.93333333
17100	0.034	34.86666667
17160	0.035	34.73333333
17220	0.036	34.86666667
17280	0.034	34.86666667
17340	0.034	34.8
17400	0.035	34.66666667
17460	0.034	34.66666667
17520	0.034	34.66666667
17580	0.034	34.66666667
17640	0.034	34.6
17700	0.034	34.53333333
17760	0.035	34.4
17820	0.035	34.4
17880	0.034	34.4
17940	0.034	34.4
18000	0.036	34.53333333
18060	0.035	34.53333333
18120	0.037	34.6
18180	0.036	34.73333333
18240	0.038	35
18300	0.036	35.06666667
18360	0.037	35.26666667
18420	0.036	35.4
18480	0.035	35.46666667
18540	0.036	35.6

18600	0.036	35.73333333
18660	0.037	35.86666667
18720	0.035	35.86666667
18780	0.038	36.13333333
18840	0.036	36.26666667
18900	0.037	36.33333333
18960	0.037	36.46666667
19020	0.039	36.6
19080	0.038	36.73333333
19140	0.037	36.66666667
19200	0.037	36.73333333
19260	0.038	36.8
19320	0.038	36.93333333
19380	0.038	37.13333333
19440	0.04	37.4
19500	0.04	37.66666667
19560	0.037	37.66666667
19620	0.037	37.8
19680	0.039	37.86666667
19740	0.037	37.93333333
19800	0.038	38
19860	0.037	38
19920	0.039	38
19980	0.036	37.86666667
20040	0.038	37.93333333
20100	0.037	37.93333333
20160	0.037	37.86666667
20220	0.036	37.73333333
20280	0.036	37.6
20340	0.036	37.33333333
20400	0.035	37
20460	0.036	36.93333333
20520	0.036	36.86666667
20580	0.036	36.66666667
20640	0.037	36.66666667
20700	0.036	36.53333333
20760	0.037	36.53333333
20820	0.036	36.33333333
20880	0.038	36.46666667
20940	0.036	36.33333333
21000	0.036	36.26666667
21060	0.039	36.4
21120	0.036	36.4
21180	0.037	36.46666667
21240	0.04	36.73333333
21300	0.037	36.86666667
21360	0.039	37.06666667

21420	0.037	37.13333333
21480	0.037	37.2

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_016
Test Start Time	8:02:10 AM
Test Start Date	6/24/2020
Test Length [D:H:M]	0:04:35
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.04
Mass Minimum [mg/m3]	0.016
Mass Maximum [mg/m3]	0.09
Mass TWA [mg/m3]	0.023
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	275

Max Instant Conc.	Max 15 min TWA Conc.
90	62.06666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.065			
120	0.065			
180	0.064			
240	0.063			
300	0.064			
360	0.063			
420	0.062			
480	0.062			
540	0.061			
600	0.061			
660	0.061			
720	0.06			
780	0.06			
840	0.06			
900	0.06			62.06666667
960	0.059			61.66666667
1020	0.059			61.26666667
1080	0.059			60.93333333
1140	0.059			60.66666667
1200	0.059			60.33333333
1260	0.059			60.06666667
1320	0.059			59.86666667
1380	0.059			59.66666667
1440	0.058			59.46666667
1500	0.058			59.26666667
1560	0.057			59
1620	0.058			58.86666667

1680	0.058	58.73333333
1740	0.058	58.6
1800	0.058	58.46666667
1860	0.059	58.46666667
1920	0.059	58.46666667
1980	0.058	58.4
2040	0.057	58.26666667
2100	0.057	58.13333333
2160	0.057	58
2220	0.057	57.86666667
2280	0.057	57.73333333
2340	0.057	57.66666667
2400	0.058	57.66666667
2460	0.057	57.66666667
2520	0.058	57.66666667
2580	0.057	57.6
2640	0.057	57.53333333
2700	0.057	57.46666667
2760	0.057	57.33333333
2820	0.057	57.2
2880	0.058	57.2
2940	0.058	57.26666667
3000	0.057	57.26666667
3060	0.056	57.2
3120	0.056	57.13333333
3180	0.056	57.06666667
3240	0.057	57.06666667
3300	0.056	56.93333333
3360	0.057	56.93333333
3420	0.058	56.93333333
3480	0.057	56.93333333
3540	0.057	56.93333333
3600	0.057	56.93333333
3660	0.056	56.86666667
3720	0.056	56.8
3780	0.056	56.66666667
3840	0.056	56.53333333
3900	0.056	56.46666667
3960	0.056	56.46666667
4020	0.056	56.46666667
4080	0.055	56.4
4140	0.055	56.26666667
4200	0.054	56.13333333
4260	0.055	56
4320	0.054	55.73333333
4380	0.055	55.6
4440	0.055	55.46666667

4500	0.055	55.33333333
4560	0.054	55.2
4620	0.054	55.06666667
4680	0.054	54.93333333
4740	0.053	54.73333333
4800	0.054	54.6
4860	0.054	54.46666667
4920	0.053	54.26666667
4980	0.053	54.13333333
5040	0.054	54.06666667
5100	0.054	54.06666667
5160	0.053	53.93333333
5220	0.05	53.66666667
5280	0.05	53.33333333
5340	0.05	53
5400	0.049	52.6
5460	0.05	52.33333333
5520	0.051	52.13333333
5580	0.05	51.86666667
5640	0.049	51.6
5700	0.049	51.26666667
5760	0.048	50.86666667
5820	0.048	50.53333333
5880	0.047	50.13333333
5940	0.046	49.6
6000	0.046	49.06666667
6060	0.044	48.46666667
6120	0.041	47.86666667
6180	0.042	47.33333333
6240	0.041	46.73333333
6300	0.039	46.06666667
6360	0.035	45.06666667
6420	0.035	44
6480	0.036	43.06666667
6540	0.036	42.2
6600	0.037	41.4
6660	0.037	40.66666667
6720	0.038	40
6780	0.038	39.4
6840	0.039	38.93333333
6900	0.038	38.4
6960	0.039	38.06666667
7020	0.039	37.93333333
7080	0.039	37.73333333
7140	0.04	37.66666667
7200	0.04	37.73333333
7260	0.04	38.06666667

7320	0.04	38.4
7380	0.04	38.66666667
7440	0.04	38.93333333
7500	0.04	39.13333333
7560	0.04	39.33333333
7620	0.04	39.46666667
7680	0.041	39.66666667
7740	0.041	39.8
7800	0.04	39.93333333
7860	0.04	40
7920	0.039	40
7980	0.039	40
8040	0.039	39.93333333
8100	0.04	39.93333333
8160	0.04	39.93333333
8220	0.04	39.93333333
8280	0.04	39.93333333
8340	0.041	40
8400	0.041	40.06666667
8460	0.041	40.13333333
8520	0.041	40.2
8580	0.04	40.13333333
8640	0.04	40.06666667
8700	0.04	40.06666667
8760	0.039	40
8820	0.038	39.93333333
8880	0.038	39.86666667
8940	0.037	39.73333333
9000	0.037	39.53333333
9060	0.037	39.33333333
9120	0.036	39.06666667
9180	0.036	38.8
9240	0.037	38.53333333
9300	0.09	41.8
9360	0.086	44.8
9420	0.04	44.73333333
9480	0.037	44.53333333
9540	0.036	44.26666667
9600	0.036	44
9660	0.037	43.86666667
9720	0.036	43.73333333
9780	0.036	43.6
9840	0.036	43.53333333
9900	0.036	43.46666667
9960	0.036	43.4
10020	0.037	43.46666667
10080	0.036	43.46666667

10140	0.035	43.33333333
10200	0.036	39.73333333
10260	0.036	36.4
10320	0.036	36.13333333
10380	0.036	36.06666667
10440	0.035	36
10500	0.035	35.93333333
10560	0.036	35.86666667
10620	0.036	35.86666667
10680	0.036	35.86666667
10740	0.038	36
10800	0.037	36.06666667
10860	0.036	36.06666667
10920	0.036	36
10980	0.036	36
11040	0.036	36.06666667
11100	0.036	36.06666667
11160	0.036	36.06666667
11220	0.036	36.06666667
11280	0.036	36.06666667
11340	0.036	36.13333333
11400	0.036	36.2
11460	0.035	36.13333333
11520	0.036	36.13333333
11580	0.039	36.33333333
11640	0.035	36.13333333
11700	0.035	36
11760	0.034	35.86666667
11820	0.034	35.73333333
11880	0.034	35.6
11940	0.034	35.46666667
12000	0.032	35.2
12060	0.032	34.93333333
12120	0.032	34.66666667
12180	0.032	34.4
12240	0.033	34.2
12300	0.032	33.93333333
12360	0.033	33.8
12420	0.032	33.53333333
12480	0.031	33
12540	0.031	32.73333333
12600	0.03	32.4
12660	0.03	32.13333333
12720	0.053	33.4
12780	0.039	33.73333333
12840	0.031	33.53333333
12900	0.043	34.26666667

12960	0.027	33.93333333
13020	0.025	33.46666667
13080	0.023	32.86666667
13140	0.022	32.13333333
13200	0.021	31.4
13260	0.023	30.73333333
13320	0.022	30.06666667
13380	0.02	29.33333333
13440	0.019	28.53333333
13500	0.02	27.86666667
13560	0.021	27.26666667
13620	0.019	25
13680	0.019	23.66666667
13740	0.039	24.2
13800	0.02	22.66666667
13860	0.022	22.33333333
13920	0.018	21.86666667
13980	0.018	21.53333333
14040	0.017	21.2
14100	0.02	21.13333333
14160	0.018	20.8
14220	0.018	20.53333333
14280	0.017	20.33333333
14340	0.018	20.26666667
14400	0.017	20.06666667
14460	0.017	19.8
14520	0.016	19.6
14580	0.016	19.4
14640	0.017	17.93333333
14700	0.016	17.66666667
14760	0.017	17.33333333
14820	0.016	17.2
14880	0.016	17.06666667
14940	0.016	17
15000	0.017	16.8
15060	0.017	16.73333333
15120	0.016	16.6
15180	0.016	16.53333333
15240	0.016	16.4
15300	0.016	16.33333333
15360	0.016	16.26666667
15420	0.016	16.26666667
15480	0.016	16.26666667
15540	0.016	16.2
15600	0.017	16.26666667
15660	0.017	16.26666667
15720	0.016	16.26666667

15780	0.016	16.26666667
15840	0.016	16.26666667
15900	0.017	16.26666667
15960	0.016	16.2
16020	0.016	16.2
16080	0.017	16.26666667
16140	0.018	16.4
16200	0.018	16.53333333
16260	0.016	16.53333333
16320	0.017	16.6
16380	0.016	16.6
16440	0.016	16.6
16500	0.017	16.6

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_017
Test Start Time	6:04:05 AM
Test Start Date	6/30/2020
Test Length [D:H:M]	0:09:52
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.004
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.01
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	592

Max Instant Conc.	Max 15 min TWA Conc.
10	6.466666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.007			
120	0.005			
180	0.004			
240	0.004			
300	0.003			
360	0.003			
420	0.003			
480	0.003			
540	0.003			
600	0.002			
660	0.002			
720	0.002			
780	0.002			
840	0.002			
900	0.002			3.133333333
960	0.001			2.733333333
1020	0.001			2.466666667
1080	0.002			2.333333333
1140	0.002			2.2
1200	0.002			2.133333333
1260	0.002			2.066666667
1320	0.002			2
1380	0.002			1.933333333
1440	0.002			1.866666667
1500	0.001			1.8
1560	0.001			1.733333333
1620	0.001			1.666666667

1680	0.001	1.6
1740	0.001	1.533333333
1800	0.001	1.466666667
1860	0.001	1.466666667
1920	0.002	1.533333333
1980	0.002	1.533333333
2040	0.002	1.533333333
2100	0.002	1.533333333
2160	0.002	1.533333333
2220	0.002	1.533333333
2280	0.002	1.533333333
2340	0.002	1.533333333
2400	0.001	1.533333333
2460	0.001	1.533333333
2520	0.001	1.533333333
2580	0.001	1.533333333
2640	0.001	1.533333333
2700	0.001	1.533333333
2760	0.001	1.533333333
2820	0.001	1.466666667
2880	0.002	1.466666667
2940	0.001	1.4
3000	0.001	1.333333333
3060	0.001	1.266666667
3120	0.001	1.2
3180	0.002	1.2
3240	0.001	1.133333333
3300	0.002	1.2
3360	0.001	1.2
3420	0.001	1.2
3480	0.001	1.2
3540	0.001	1.2
3600	0.001	1.2
3660	0.001	1.2
3720	0.001	1.2
3780	0.001	1.133333333
3840	0.001	1.133333333
3900	0.001	1.133333333
3960	0.001	1.133333333
4020	0.001	1.133333333
4080	0.001	1.066666667
4140	0.001	1.066666667
4200	0.001	1
4260	0.001	1
4320	0.001	1
4380	0.002	1.066666667
4440	0.002	1.133333333

4500	0.002	1.2
4560	0.002	1.266666667
4620	0.002	1.333333333
4680	0.002	1.4
4740	0.002	1.466666667
4800	0.002	1.533333333
4860	0.003	1.666666667
4920	0.002	1.733333333
4980	0.002	1.8
5040	0.002	1.866666667
5100	0.002	1.933333333
5160	0.003	2.066666667
5220	0.003	2.2
5280	0.003	2.266666667
5340	0.003	2.333333333
5400	0.003	2.4
5460	0.003	2.466666667
5520	0.003	2.533333333
5580	0.003	2.6
5640	0.003	2.666666667
5700	0.003	2.733333333
5760	0.003	2.733333333
5820	0.003	2.8
5880	0.003	2.866666667
5940	0.003	2.933333333
6000	0.003	3
6060	0.003	3
6120	0.003	3
6180	0.003	3
6240	0.003	3
6300	0.003	3
6360	0.003	3
6420	0.003	3
6480	0.003	3
6540	0.003	3
6600	0.003	3
6660	0.003	3
6720	0.003	3
6780	0.003	3
6840	0.003	3
6900	0.003	3
6960	0.003	3
7020	0.003	3
7080	0.003	3
7140	0.004	3.066666667
7200	0.003	3.066666667
7260	0.004	3.133333333

7320	0.004	3.2
7380	0.004	3.266666667
7440	0.004	3.333333333
7500	0.004	3.4
7560	0.004	3.466666667
7620	0.004	3.533333333
7680	0.004	3.6
7740	0.004	3.666666667
7800	0.004	3.733333333
7860	0.004	3.8
7920	0.004	3.866666667
7980	0.003	3.866666667
8040	0.003	3.8
8100	0.003	3.8
8160	0.004	3.8
8220	0.004	3.8
8280	0.004	3.8
8340	0.004	3.8
8400	0.004	3.8
8460	0.004	3.8
8520	0.004	3.8
8580	0.004	3.8
8640	0.003	3.733333333
8700	0.003	3.666666667
8760	0.004	3.666666667
8820	0.004	3.666666667
8880	0.004	3.733333333
8940	0.004	3.8
9000	0.004	3.866666667
9060	0.004	3.866666667
9120	0.004	3.866666667
9180	0.004	3.866666667
9240	0.004	3.866666667
9300	0.004	3.866666667
9360	0.004	3.866666667
9420	0.004	3.866666667
9480	0.004	3.866666667
9540	0.004	3.933333333
9600	0.004	4
9660	0.004	4
9720	0.005	4.066666667
9780	0.004	4.066666667
9840	0.005	4.133333333
9900	0.005	4.2
9960	0.004	4.2
10020	0.005	4.266666667
10080	0.005	4.333333333

10140	0.005	4.4
10200	0.004	4.4
10260	0.005	4.466666667
10320	0.005	4.533333333
10380	0.005	4.6
10440	0.004	4.6
10500	0.004	4.6
10560	0.004	4.6
10620	0.004	4.533333333
10680	0.004	4.533333333
10740	0.004	4.466666667
10800	0.004	4.4
10860	0.004	4.4
10920	0.004	4.333333333
10980	0.004	4.266666667
11040	0.004	4.2
11100	0.004	4.2
11160	0.005	4.2
11220	0.004	4.133333333
11280	0.004	4.066666667
11340	0.004	4.066666667
11400	0.004	4.066666667
11460	0.004	4.066666667
11520	0.004	4.066666667
11580	0.004	4.066666667
11640	0.005	4.133333333
11700	0.005	4.2
11760	0.005	4.266666667
11820	0.005	4.333333333
11880	0.005	4.4
11940	0.01	4.8
12000	0.009	5.133333333
12060	0.008	5.333333333
12120	0.007	5.533333333
12180	0.007	5.733333333
12240	0.007	5.933333333
12300	0.006	6.066666667
12360	0.006	6.2
12420	0.006	6.333333333
12480	0.006	6.466666667
12540	0.005	6.466666667
12600	0.005	6.466666667
12660	0.005	6.466666667
12720	0.005	6.466666667
12780	0.005	6.466666667
12840	0.005	6.133333333
12900	0.005	5.866666667

12960	0.005	5.666666667
13020	0.005	5.533333333
13080	0.005	5.4
13140	0.005	5.266666667
13200	0.005	5.2
13260	0.005	5.133333333
13320	0.005	5.066666667
13380	0.005	5
13440	0.005	5
13500	0.005	5
13560	0.005	5
13620	0.005	5
13680	0.006	5.066666667
13740	0.005	5.066666667
13800	0.005	5.066666667
13860	0.005	5.066666667
13920	0.005	5.066666667
13980	0.005	5.066666667
14040	0.005	5.066666667
14100	0.005	5.066666667
14160	0.005	5.066666667
14220	0.005	5.066666667
14280	0.005	5.066666667
14340	0.005	5.066666667
14400	0.005	5.066666667
14460	0.005	5.066666667
14520	0.005	5.066666667
14580	0.005	5
14640	0.005	5
14700	0.005	5
14760	0.005	5
14820	0.005	5
14880	0.005	5
14940	0.005	5
15000	0.005	5
15060	0.005	5
15120	0.005	5
15180	0.005	5
15240	0.005	5
15300	0.005	5
15360	0.004	4.933333333
15420	0.004	4.866666667
15480	0.005	4.866666667
15540	0.005	4.866666667
15600	0.005	4.866666667
15660	0.005	4.866666667
15720	0.005	4.866666667

15780	0.005	4.866666667
15840	0.005	4.866666667
15900	0.005	4.866666667
15960	0.005	4.866666667
16020	0.005	4.866666667
16080	0.005	4.866666667
16140	0.005	4.866666667
16200	0.005	4.866666667
16260	0.005	4.933333333
16320	0.005	5
16380	0.005	5
16440	0.005	5
16500	0.005	5
16560	0.005	5
16620	0.005	5
16680	0.005	5
16740	0.005	5
16800	0.005	5
16860	0.005	5
16920	0.005	5
16980	0.005	5
17040	0.005	5
17100	0.005	5
17160	0.005	5
17220	0.005	5
17280	0.005	5
17340	0.005	5
17400	0.005	5
17460	0.005	5
17520	0.005	5
17580	0.005	5
17640	0.005	5
17700	0.005	5
17760	0.005	5
17820	0.005	5
17880	0.005	5
17940	0.005	5
18000	0.005	5
18060	0.005	5
18120	0.005	5
18180	0.006	5.066666667
18240	0.005	5.066666667
18300	0.005	5.066666667
18360	0.005	5.066666667
18420	0.005	5.066666667
18480	0.005	5.066666667
18540	0.005	5.066666667

18600	0.005	5.066666667
18660	0.005	5.066666667
18720	0.005	5.066666667
18780	0.005	5.066666667
18840	0.005	5.066666667
18900	0.005	5.066666667
18960	0.005	5.066666667
19020	0.005	5.066666667
19080	0.005	5
19140	0.005	5
19200	0.005	5
19260	0.005	5
19320	0.005	5
19380	0.005	5
19440	0.005	5
19500	0.005	5
19560	0.005	5
19620	0.005	5
19680	0.005	5
19740	0.005	5
19800	0.005	5
19860	0.005	5
19920	0.005	5
19980	0.005	5
20040	0.005	5
20100	0.005	5
20160	0.005	5
20220	0.005	5
20280	0.005	5
20340	0.005	5
20400	0.005	5
20460	0.005	5
20520	0.005	5
20580	0.005	5
20640	0.005	5
20700	0.005	5
20760	0.005	5
20820	0.005	5
20880	0.005	5
20940	0.005	5
21000	0.005	5
21060	0.005	5
21120	0.005	5
21180	0.005	5
21240	0.005	5
21300	0.005	5
21360	0.005	5

21420	0.005	5
21480	0.005	5
21540	0.005	5
21600	0.005	5
21660	0.005	5
21720	0.005	5
21780	0.005	5
21840	0.005	5
21900	0.005	5
21960	0.005	5
22020	0.005	5
22080	0.005	5
22140	0.005	5
22200	0.005	5
22260	0.005	5
22320	0.005	5
22380	0.005	5
22440	0.005	5
22500	0.005	5
22560	0.005	5
22620	0.005	5
22680	0.005	5
22740	0.005	5
22800	0.005	5
22860	0.005	5
22920	0.005	5
22980	0.005	5
23040	0.005	5
23100	0.005	5
23160	0.005	5
23220	0.005	5
23280	0.005	5
23340	0.005	5
23400	0.005	5
23460	0.005	5
23520	0.005	5
23580	0.005	5
23640	0.005	5
23700	0.005	5
23760	0.005	5
23820	0.005	5
23880	0.005	5
23940	0.005	5
24000	0.005	5
24060	0.005	5
24120	0.005	5
24180	0.005	5

24240	0.005	5
24300	0.005	5
24360	0.005	5
24420	0.005	5
24480	0.005	5
24540	0.005	5
24600	0.005	5
24660	0.005	5
24720	0.005	5
24780	0.005	5
24840	0.005	5
24900	0.005	5
24960	0.006	5.066666667
25020	0.006	5.133333333
25080	0.006	5.2
25140	0.006	5.266666667
25200	0.006	5.333333333
25260	0.006	5.4
25320	0.006	5.466666667
25380	0.006	5.533333333
25440	0.006	5.6
25500	0.006	5.666666667
25560	0.006	5.733333333
25620	0.006	5.8
25680	0.006	5.866666667
25740	0.005	5.866666667
25800	0.005	5.866666667
25860	0.005	5.8
25920	0.005	5.733333333
25980	0.005	5.666666667
26040	0.005	5.6
26100	0.006	5.6
26160	0.005	5.533333333
26220	0.005	5.466666667
26280	0.005	5.4
26340	0.005	5.333333333
26400	0.005	5.266666667
26460	0.005	5.2
26520	0.005	5.133333333
26580	0.005	5.066666667
26640	0.005	5.066666667
26700	0.005	5.066666667
26760	0.005	5.066666667
26820	0.005	5.066666667
26880	0.005	5.066666667
26940	0.005	5.066666667
27000	0.005	5

27060	0.005	5
27120	0.005	5
27180	0.005	5
27240	0.005	5
27300	0.005	5
27360	0.005	5
27420	0.005	5
27480	0.005	5
27540	0.005	5
27600	0.005	5
27660	0.005	5
27720	0.005	5
27780	0.005	5
27840	0.005	5
27900	0.005	5
27960	0.005	5
28020	0.005	5
28080	0.005	5
28140	0.005	5
28200	0.005	5
28260	0.005	5
28320	0.005	5
28380	0.005	5
28440	0.005	5
28500	0.005	5
28560	0.005	5
28620	0.005	5
28680	0.005	5
28740	0.005	5
28800	0.005	5
28860	0.005	5
28920	0.005	5
28980	0.005	5
29040	0.005	5
29100	0.005	5
29160	0.005	5
29220	0.005	5
29280	0.005	5
29340	0.005	5
29400	0.005	5
29460	0.005	5
29520	0.005	5
29580	0.005	5
29640	0.005	5
29700	0.005	5
29760	0.005	5
29820	0.005	5

29880	0.005	5
29940	0.005	5
30000	0.005	5
30060	0.005	5
30120	0.005	5
30180	0.005	5
30240	0.005	5
30300	0.005	5
30360	0.005	5
30420	0.005	5
30480	0.005	5
30540	0.005	5
30600	0.005	5
30660	0.005	5
30720	0.005	5
30780	0.005	5
30840	0.005	5
30900	0.005	5
30960	0.005	5
31020	0.005	5
31080	0.005	5
31140	0.005	5
31200	0.005	5
31260	0.005	5
31320	0.005	5
31380	0.005	5
31440	0.005	5
31500	0.005	5
31560	0.005	5
31620	0.005	5
31680	0.005	5
31740	0.005	5
31800	0.005	5
31860	0.005	5
31920	0.005	5
31980	0.005	5
32040	0.005	5
32100	0.005	5
32160	0.005	5
32220	0.005	5
32280	0.005	5
32340	0.005	5
32400	0.005	5
32460	0.005	5
32520	0.005	5
32580	0.005	5
32640	0.005	5

32700	0.005	5
32760	0.005	5
32820	0.005	5
32880	0.005	5
32940	0.005	5
33000	0.005	5
33060	0.005	5
33120	0.005	5
33180	0.005	5
33240	0.005	5
33300	0.005	5
33360	0.005	5
33420	0.005	5
33480	0.005	5
33540	0.005	5
33600	0.005	5
33660	0.005	5
33720	0.004	4.933333333
33780	0.004	4.866666667
33840	0.005	4.866666667
33900	0.005	4.866666667
33960	0.004	4.8
34020	0.004	4.733333333
34080	0.004	4.666666667
34140	0.004	4.6
34200	0.004	4.533333333
34260	0.004	4.466666667
34320	0.004	4.4
34380	0.004	4.333333333
34440	0.004	4.266666667
34500	0.004	4.2
34560	0.004	4.133333333
34620	0.004	4.133333333
34680	0.004	4.133333333
34740	0.004	4.066666667
34800	0.004	4
34860	0.004	4
34920	0.005	4.066666667
34980	0.005	4.133333333
35040	0.005	4.2
35100	0.005	4.266666667
35160	0.005	4.333333333
35220	0.005	4.4
35280	0.005	4.466666667
35340	0.005	4.533333333
35400	0.005	4.6
35460	0.005	4.666666667

35520	0.005	4.733333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_018
Test Start Time	7:59:58 AM
Test Start Date	7/1/2020
Test Length [D:H:M]	0:05:53
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.013
Mass Minimum [mg/m3]	0.01
Mass Maximum [mg/m3]	0.047
Mass TWA [mg/m3]	0.01
Photometric User Cal	1
Flow User Cal	0
Errors	Max Concentration
Number of Samples	353

Max Instant Conc.
10

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.037		Max Concentration
120	0.035		Max Concentration
180	0.035		Max Concentration
240	0.037		Max Concentration
300	0.043		Max Concentration
360	0.041		Max Concentration
420	0.036		Max Concentration
480	0.032		Max Concentration
540	0.029		Max Concentration
600	0.024		Max Concentration
660	0.02		Max Concentration
720	0.017		Max Concentration
780	0.014		Max Concentration
840	0.012		Max Concentration
900	0.012		Max Concentration
960	0.011		Max Concentration
1020	0.011		Max Concentration
1080	0.011		Max Concentration
1140	0.011		Max Concentration
1200	0.011		Max Concentration
1260	0.011		Max Concentration
1320	0.01		Max Concentration
1380	0.01		Max Concentration
1440	0.011		Max Concentration
1500	0.011		Max Concentration
1560	0.011		Max Concentration
1620	0.01		Max Concentration

1680	0.01	Max Concentration
1740	0.01	Max Concentration
1800	0.01	Max Concentration
1860	0.01	Max Concentration
1920	0.01	Max Concentration
1980	0.011	Max Concentration
2040	0.011	Max Concentration
2100	0.011	Max Concentration
2160	0.011	Max Concentration
2220	0.011	Max Concentration
2280	0.011	Max Concentration
2340	0.01	Max Concentration
2400	0.011	Max Concentration
2460	0.011	Max Concentration
2520	0.011	Max Concentration
2580	0.011	Max Concentration
2640	0.011	Max Concentration
2700	0.01	Max Concentration
2760	0.01	Max Concentration
2820	0.011	Max Concentration
2880	0.01	Max Concentration
2940	0.01	Max Concentration
3000	0.011	Max Concentration
3060	0.011	Max Concentration
3120	0.01	Max Concentration
3180	0.01	Max Concentration
3240	0.011	Max Concentration
3300	0.011	Max Concentration
3360	0.011	Max Concentration
3420	0.011	Max Concentration
3480	0.011	Max Concentration
3540	0.011	Max Concentration
3600	0.011	Max Concentration
3660	0.011	Max Concentration
3720	0.011	Max Concentration
3780	0.011	Max Concentration
3840	0.011	Max Concentration
3900	0.011	Max Concentration
3960	0.011	Max Concentration
4020	0.011	Max Concentration
4080	0.011	Max Concentration
4140	0.012	Max Concentration
4200	0.012	Max Concentration
4260	0.012	Max Concentration
4320	0.012	Max Concentration
4380	0.012	Max Concentration
4440	0.012	Max Concentration

4500	0.012	Max Concentration
4560	0.015	Max Concentration
4620	0.012	Max Concentration
4680	0.012	Max Concentration
4740	0.011	Max Concentration
4800	0.011	Max Concentration
4860	0.011	Max Concentration
4920	0.012	Max Concentration
4980	0.012	Max Concentration
5040	0.012	Max Concentration
5100	0.012	Max Concentration
5160	0.012	Max Concentration
5220	0.012	Max Concentration
5280	0.012	Max Concentration
5340	0.012	Max Concentration
5400	0.012	Max Concentration
5460	0.012	Max Concentration
5520	0.013	Max Concentration
5580	0.012	Max Concentration
5640	0.013	Max Concentration
5700	0.012	Max Concentration
5760	0.012	Max Concentration
5820	0.012	Max Concentration
5880	0.012	Max Concentration
5940	0.012	Max Concentration
6000	0.012	Max Concentration
6060	0.012	Max Concentration
6120	0.012	Max Concentration
6180	0.012	Max Concentration
6240	0.012	Max Concentration
6300	0.012	Max Concentration
6360	0.013	Max Concentration
6420	0.013	Max Concentration
6480	0.012	Max Concentration
6540	0.012	Max Concentration
6600	0.012	Max Concentration
6660	0.012	Max Concentration
6720	0.012	Max Concentration
6780	0.012	Max Concentration
6840	0.012	Max Concentration
6900	0.013	Max Concentration
6960	0.013	Max Concentration
7020	0.017	Max Concentration
7080	0.012	Max Concentration
7140	0.013	Max Concentration
7200	0.013	Max Concentration
7260	0.012	Max Concentration

7320	0.012	Max Concentration
7380	0.012	Max Concentration
7440	0.012	Max Concentration
7500	0.012	Max Concentration
7560	0.012	Max Concentration
7620	0.012	Max Concentration
7680	0.012	Max Concentration
7740	0.012	Max Concentration
7800	0.012	Max Concentration
7860	0.012	Max Concentration
7920	0.012	Max Concentration
7980	0.012	Max Concentration
8040	0.012	Max Concentration
8100	0.012	Max Concentration
8160	0.012	Max Concentration
8220	0.012	Max Concentration
8280	0.012	Max Concentration
8340	0.012	Max Concentration
8400	0.012	Max Concentration
8460	0.012	Max Concentration
8520	0.012	Max Concentration
8580	0.012	Max Concentration
8640	0.012	Max Concentration
8700	0.013	Max Concentration
8760	0.013	Max Concentration
8820	0.013	Max Concentration
8880	0.013	Max Concentration
8940	0.013	Max Concentration
9000	0.013	Max Concentration
9060	0.013	Max Concentration
9120	0.013	Max Concentration
9180	0.013	Max Concentration
9240	0.013	Max Concentration
9300	0.013	Max Concentration
9360	0.013	Max Concentration
9420	0.013	Max Concentration
9480	0.013	Max Concentration
9540	0.013	Max Concentration
9600	0.013	Max Concentration
9660	0.013	Max Concentration
9720	0.013	Max Concentration
9780	0.013	Max Concentration
9840	0.013	Max Concentration
9900	0.013	Max Concentration
9960	0.013	Max Concentration
10020	0.012	Max Concentration
10080	0.013	Max Concentration

10140	0.013	Max Concentration
10200	0.013	Max Concentration
10260	0.013	Max Concentration
10320	0.013	Max Concentration
10380	0.012	Max Concentration
10440	0.013	Max Concentration
10500	0.013	Max Concentration
10560	0.013	Max Concentration
10620	0.012	Max Concentration
10680	0.013	Max Concentration
10740	0.013	Max Concentration
10800	0.013	Max Concentration
10860	0.013	Max Concentration
10920	0.014	Max Concentration
10980	0.014	Max Concentration
11040	0.013	Max Concentration
11100	0.014	Max Concentration
11160	0.013	Max Concentration
11220	0.013	Max Concentration
11280	0.013	Max Concentration
11340	0.013	Max Concentration
11400	0.013	Max Concentration
11460	0.013	Max Concentration
11520	0.013	Max Concentration
11580	0.013	Max Concentration
11640	0.013	Max Concentration
11700	0.013	Max Concentration
11760	0.013	Max Concentration
11820	0.012	Max Concentration
11880	0.012	Max Concentration
11940	0.013	Max Concentration
12000	0.012	Max Concentration
12060	0.012	Max Concentration
12120	0.012	Max Concentration
12180	0.012	Max Concentration
12240	0.012	Max Concentration
12300	0.012	Max Concentration
12360	0.012	Max Concentration
12420	0.012	Max Concentration
12480	0.012	Max Concentration
12540	0.012	Max Concentration
12600	0.013	Max Concentration
12660	0.013	Max Concentration
12720	0.013	Max Concentration
12780	0.013	Max Concentration
12840	0.013	Max Concentration
12900	0.014	Max Concentration

12960	0.013	Max Concentration
13020	0.013	Max Concentration
13080	0.013	Max Concentration
13140	0.013	Max Concentration
13200	0.013	Max Concentration
13260	0.013	Max Concentration
13320	0.013	Max Concentration
13380	0.013	Max Concentration
13440	0.013	Max Concentration
13500	0.012	Max Concentration
13560	0.012	Max Concentration
13620	0.012	Max Concentration
13680	0.012	Max Concentration
13740	0.013	Max Concentration
13800	0.012	Max Concentration
13860	0.012	Max Concentration
13920	0.012	Max Concentration
13980	0.012	Max Concentration
14040	0.012	Max Concentration
14100	0.013	Max Concentration
14160	0.011	Max Concentration
14220	0.014	Max Concentration
14280	0.012	Max Concentration
14340	0.012	Max Concentration
14400	0.012	Max Concentration
14460	0.012	Max Concentration
14520	0.012	Max Concentration
14580	0.012	Max Concentration
14640	0.012	Max Concentration
14700	0.012	Max Concentration
14760	0.012	Max Concentration
14820	0.012	Max Concentration
14880	0.012	Max Concentration
14940	0.012	Max Concentration
15000	0.012	Max Concentration
15060	0.012	Max Concentration
15120	0.012	Max Concentration
15180	0.014	Max Concentration
15240	0.012	Max Concentration
15300	0.012	Max Concentration
15360	0.015	Max Concentration
15420	0.014	Max Concentration
15480	0.012	Max Concentration
15540	0.016	Max Concentration
15600	0.012	Max Concentration
15660	0.011	Max Concentration
15720	0.012	Max Concentration

15780	0.02	Max Concentration
15840	0.012	Max Concentration
15900	0.012	Max Concentration
15960	0.012	Max Concentration
16020	0.012	Max Concentration
16080	0.012	Max Concentration
16140	0.012	Max Concentration
16200	0.012	Max Concentration
16260	0.012	Max Concentration
16320	0.012	Max Concentration
16380	0.012	Max Concentration
16440	0.012	Max Concentration
16500	0.011	Max Concentration
16560	0.011	Max Concentration
16620	0.012	Max Concentration
16680	0.011	Max Concentration
16740	0.011	Max Concentration
16800	0.011	Max Concentration
16860	0.012	Max Concentration
16920	0.012	Max Concentration
16980	0.012	Max Concentration
17040	0.012	Max Concentration
17100	0.011	Max Concentration
17160	0.012	Max Concentration
17220	0.011	Max Concentration
17280	0.012	Max Concentration
17340	0.012	Max Concentration
17400	0.012	Max Concentration
17460	0.012	Max Concentration
17520	0.012	Max Concentration
17580	0.012	Max Concentration
17640	0.013	Max Concentration
17700	0.012	Max Concentration
17760	0.012	Max Concentration
17820	0.012	Max Concentration
17880	0.012	Max Concentration
17940	0.012	Max Concentration
18000	0.013	Max Concentration
18060	0.013	Max Concentration
18120	0.014	Max Concentration
18180	0.012	Max Concentration
18240	0.047	Max Concentration
18300	0.03	Max Concentration
18360	0.023	Max Concentration
18420	0.012	Max Concentration
18480	0.012	Max Concentration
18540	0.012	Max Concentration

18600	0.012	Max Concentration
18660	0.011	Max Concentration
18720	0.014	Max Concentration
18780	0.012	Max Concentration
18840	0.019	Max Concentration
18900	0.013	Max Concentration
18960	0.011	Max Concentration
19020	0.011	Max Concentration
19080	0.016	Max Concentration
19140	0.015	Max Concentration
19200	0.02	Max Concentration
19260	0.022	Max Concentration
19320	0.019	Max Concentration
19380	0.025	Max Concentration
19440	0.019	Max Concentration
19500	0.016	Max Concentration
19560	0.013	Max Concentration
19620	0.015	Max Concentration
19680	0.015	Max Concentration
19740	0.012	Max Concentration
19800	0.014	Max Concentration
19860	0.013	Max Concentration
19920	0.013	Max Concentration
19980	0.012	Max Concentration
20040	0.012	Max Concentration
20100	0.011	Max Concentration
20160	0.012	Max Concentration
20220	0.011	Max Concentration
20280	0.012	Max Concentration
20340	0.012	Max Concentration
20400	0.012	Max Concentration
20460	0.012	Max Concentration
20520	0.013	Max Concentration
20580	0.014	Max Concentration
20640	0.015	Max Concentration
20700	0.012	Max Concentration
20760	0.012	Max Concentration
20820	0.012	Max Concentration
20880	0.012	Max Concentration
20940	0.012	Max Concentration
21000	0.012	Max Concentration
21060	0.012	Max Concentration
21120	0.012	Max Concentration
21180	0.012	Max Concentration

Max 15 min TWA Conc.
26.53333333
26.53333333
24.93333333
23.33333333
21.6
19.46666667
17.46666667
15.73333333
14.26666667
13.06666667
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10.86666667
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10.73333333
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11.13333333
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11.26666667
11.33333333
11.4

11.46666667
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11.86666667
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11.93333333
12.06666667
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12.33333333
12.33333333
14.66666667
15.86666667
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16.53333333

16.53333333
16.46666667
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17.06666667
17.06666667
16.93333333
16.73333333
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14.86666667
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14.13333333
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15.46666667
15.93333333
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16.33333333
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16.33333333
16.46666667
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15.4
14.73333333
14.2
13.33333333
12.86666667
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12.4

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_019
Test Start Time	8:15:51 AM
Test Start Date	7/2/2020
Test Length [D:H:M]	0:01:11
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.013
Mass Minimum [mg/m3]	0.011
Mass Maximum [mg/m3]	0.027
Mass TWA [mg/m3]	0.002
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	71

Max Instant Conc.	Max 15 min TWA Conc.
27	16.2

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.016			
120	0.013			
180	0.012			
240	0.012			
300	0.012			
360	0.012			
420	0.012			
480	0.013			
540	0.012			
600	0.011			
660	0.012			
720	0.012			
780	0.011			
840	0.011			
900	0.011			12.13333333
960	0.011			11.8
1020	0.012			11.73333333
1080	0.012			11.73333333
1140	0.012			11.73333333
1200	0.012			11.73333333
1260	0.012			11.73333333
1320	0.012			11.73333333
1380	0.013			11.73333333
1440	0.013			11.8
1500	0.012			11.86666667
1560	0.012			11.86666667
1620	0.011			11.8

1680	0.012	11.86666667
1740	0.012	11.93333333
1800	0.012	12
1860	0.012	12.06666667
1920	0.012	12.06666667
1980	0.011	12
2040	0.011	11.93333333
2100	0.011	11.86666667
2160	0.011	11.8
2220	0.012	11.8
2280	0.012	11.73333333
2340	0.012	11.66666667
2400	0.012	11.66666667
2460	0.012	11.66666667
2520	0.012	11.73333333
2580	0.012	11.73333333
2640	0.012	11.73333333
2700	0.012	11.73333333
2760	0.012	11.73333333
2820	0.012	11.73333333
2880	0.012	11.8
2940	0.012	11.86666667
3000	0.013	12
3060	0.012	12.06666667
3120	0.013	12.13333333
3180	0.013	12.2
3240	0.012	12.2
3300	0.013	12.26666667
3360	0.017	12.6
3420	0.014	12.73333333
3480	0.019	13.2
3540	0.016	13.46666667
3600	0.014	13.6
3660	0.013	13.66666667
3720	0.014	13.8
3780	0.014	13.93333333
3840	0.015	14.13333333
3900	0.016	14.33333333
3960	0.021	14.93333333
4020	0.027	15.86666667
4080	0.014	15.93333333
4140	0.014	16.06666667
4200	0.015	16.2
4260	0.014	16

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_020
Test Start Time	10:27:37 AM
Test Start Date	7/6/2020
Test Length [D:H:M]	0:05:43
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.029
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.291
Mass TWA [mg/m3]	0.021
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	245

Max Instant Conc.	Max 15 min TWA Conc.
291	44.2

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.028			
120	0.027			
180	0.029			
240	0.03			
300	0.028			
360	0.027			
420	0.027			
480	0.027			
540	0.027			
600	0.027			
660	0.028			
720	0.027			
780	0.028			
840	0.028			
900	0.028			27.73333333
960	0.031			27.93333333
1020	0.028			28
1080	0.034			28.33333333
1140	0.04			29
1200	0.029			29.06666667
1260	0.028			29.13333333
1320	0.029			29.26666667
1380	0.028			29.33333333
1440	0.029			29.46666667
1500	0.028			29.53333333
1560	0.027			29.46666667
1620	0.031			29.73333333

1680	0.03	29.86666667
1740	0.028	29.86666667
1800	0.029	29.93333333
1860	0.028	29.73333333
1920	0.029	29.8
1980	0.029	29.46666667
2040	0.028	28.66666667
2100	0.028	28.6
2160	0.029	28.66666667
2220	0.028	28.6
2280	0.027	28.53333333
2340	0.026	28.33333333
2400	0.026	28.2
2460	0.027	28.2
2520	0.028	28
2580	0.027	27.8
2640	0.026	27.66666667
2700	0.026	27.46666667
2760	0.028	27.46666667
2820	0.028	27.4
2880	0.027	27.26666667
2940	0.028	27.26666667
3000	0.028	27.26666667
3060	0.027	27.13333333
3120	0.027	27.06666667
3180	0.027	27.06666667
3240	0.027	27.13333333
3300	0.027	27.2
3360	0.027	27.2
3420	0.027	27.13333333
3480	0.027	27.13333333
3540	0.027	27.2
3600	0.026	27.2
3660	0.026	27.06666667
3720	0.026	26.93333333
3780	0.026	26.86666667
3840	0.026	26.73333333
3900	0.025	26.53333333
3960	0.026	26.46666667
4020	0.026	26.4
4080	0.027	26.4
4140	0.026	26.33333333
4200	0.025	26.2
4260	0.027	26.2
4320	0.027	26.2
4380	0.027	26.2
4440	0.027	26.2

4500	0.027	26.26666667
4560	0.026	26.26666667
4620	0.027	26.33333333
4680	0.027	26.4
4740	0.027	26.46666667
4800	0.028	26.66666667
4860	0.027	26.73333333
4920	0.027	26.8
4980	0.029	26.93333333
5040	0.027	27
5100	0.026	27.06666667
5160	0.026	27
5220	0.026	26.93333333
5280	0.028	27
5340	0.028	27.06666667
5400	0.029	27.2
5460	0.029	27.4
5520	0.032	27.73333333
5580	0.029	27.86666667
5640	0.03	28.06666667
5700	0.029	28.13333333
5760	0.03	28.33333333
5820	0.027	28.33333333
5880	0.026	28.13333333
5940	0.027	28.13333333
6000	0.026	28.13333333
6060	0.026	28.13333333
6120	0.026	28.13333333
6180	0.029	28.2
6240	0.029	28.26666667
6300	0.03	28.33333333
6360	0.032	28.53333333
6420	0.031	28.46666667
6480	0.029	28.46666667
6540	0.028	28.33333333
6600	0.028	28.26666667
6660	0.029	28.2
6720	0.031	28.46666667
6780	0.03	28.73333333
6840	0.03	28.93333333
6900	0.032	29.33333333
6960	0.031	29.66666667
7020	0.032	30.06666667
7080	0.031	30.2
7140	0.031	30.33333333
7200	0.031	30.4
7260	0.03	30.26666667

7320	0.031	30.26666667
7380	0.037	30.8
7440	0.03	30.93333333
7500	0.03	31.06666667
7560	0.029	31.06666667
7620	0.029	30.93333333
7680	0.029	30.86666667
7740	0.028	30.73333333
7800	0.028	30.46666667
7860	0.028	30.26666667
7920	0.029	30.06666667
7980	0.028	29.86666667
8040	0.028	29.66666667
8100	0.028	29.46666667
8160	0.029	29.4
8220	0.029	29.26666667
8280	0.03	28.8
8340	0.029	28.73333333
8400	0.03	28.73333333
8460	0.029	28.73333333
8520	0.03	28.8
8580	0.029	28.8
8640	0.029	28.86666667
8700	0.028	28.86666667
8760	0.029	28.93333333
8820	0.028	28.86666667
8880	0.027	28.8
8940	0.027	28.73333333
9000	0.028	28.73333333
9060	0.027	28.6
9120	0.028	28.53333333
9180	0.027	28.33333333
9240	0.027	28.2
9300	0.028	28.06666667
9360	0.028	28
9420	0.028	27.86666667
9480	0.027	27.73333333
9540	0.03	27.8
9600	0.029	27.86666667
9660	0.028	27.8
9720	0.028	27.8
9780	0.027	27.8
9840	0.027	27.8
9900	0.028	27.8
9960	0.028	27.86666667
10020	0.028	27.86666667
10080	0.028	27.93333333

10140	0.029	28.06666667
10200	0.028	28.06666667
10260	0.03	28.2
10320	0.028	28.2
10380	0.028	28.26666667
10440	0.029	28.2
10500	0.028	28.13333333
10560	0.027	28.06666667
10620	0.028	28.06666667
10680	0.027	28.06666667
10740	0.027	28.06666667
10800	0.027	28
10860	0.029	28.06666667
10920	0.027	28
10980	0.028	28
11040	0.027	27.86666667
11100	0.027	27.8
11160	0.027	27.6
11220	0.027	27.53333333
11280	0.027	27.46666667
11340	0.027	27.33333333
11400	0.027	27.26666667
11460	0.027	27.26666667
11520	0.028	27.26666667
11580	0.029	27.4
11640	0.027	27.4
11700	0.027	27.4
11760	0.027	27.26666667
11820	0.027	27.26666667
11880	0.029	27.33333333
11940	0.028	27.4
12000	0.027	27.4
12060	0.027	27.4
12120	0.027	27.4
12180	0.028	27.46666667
12240	0.029	27.6
12300	0.027	27.6
12360	0.029	27.73333333
12420	0.027	27.66666667
12480	0.028	27.6
12540	0.028	27.66666667
12600	0.028	27.73333333
12660	0.028	27.8
12720	0.03	28
12780	0.028	27.93333333
12840	0.028	27.93333333
12900	0.027	27.93333333

12960	0.027	27.93333333
13020	0.027	27.93333333
13080	0.028	27.93333333
13140	0.027	27.8
13200	0.028	27.86666667
13260	0.028	27.8
13320	0.028	27.86666667
13380	0.028	27.86666667
13440	0.028	27.86666667
13500	0.028	27.86666667
13560	0.028	27.86666667
13620	0.028	27.73333333
13680	0.028	27.73333333
13740	0.029	27.8
13800	0.03	28
13860	0.029	28.13333333
13920	0.028	28.2
13980	0.028	28.2
14040	0.029	28.33333333
14100	0.029	28.4
14160	0.029	28.46666667
14220	0.028	28.46666667
14280	0.028	28.46666667
14340	0.028	28.46666667
14400	0.028	28.46666667
14460	0.028	28.46666667
14520	0.031	28.66666667
14580	0.029	28.73333333
20579	0	26.8
20580	0.291	44.2

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_021
Test Start Time	6:37:11 AM
Test Start Date	7/7/2020
Test Length [D:H:M]	0:23:57
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.02
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.023
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	Max Concentration
Number of Samples	533

Max Instant Conc.
23

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.018		
120	0.018		
180	0.018		
240	0.018		
300	0.018		
360	0.018		
420	0.018		
480	0.018		
540	0.018		
600	0.018		
660	0.019		
720	0.019		
780	0.018		
840	0.018		
900	0.018		
960	0.018		
1020	0.017		
1080	0.017		
1140	0.017		
1200	0.017		
1260	0.017		
1320	0.017		
1380	0.017		
1440	0.018		
1500	0.018		
1560	0.017		
1620	0.017		

1680	0.017
1740	0.017
1800	0.017
1860	0.017
1920	0.017
1980	0.017
2040	0.017
2100	0.017
2160	0.017
2220	0.017
2280	0.017
2340	0.017
2400	0.017
2460	0.018
2520	0.017
2580	0.018
2640	0.017
2700	0.017
2760	0.017
2820	0.017
2880	0.017
2940	0.017
3000	0.017
3060	0.017
3120	0.017
3180	0.017
3240	0.017
3300	0.017
3360	0.017
3420	0.017
3480	0.017
3540	0.017
3600	0.017
3660	0.017
3720	0.017
3780	0.017
3840	0.017
3900	0.017
3960	0.017
4020	0.017
4080	0.017
4140	0.017
4200	0.017
4260	0.017
4320	0.017
4380	0.017
4440	0.017

4500	0.017
4560	0.017
4620	0.017
4680	0.017
4740	0.018
4800	0.017
4860	0.018
4920	0.018
4980	0.018
5040	0.018
5100	0.018
5160	0.018
5220	0.018
5280	0.017
5340	0.018
5400	0.018
5460	0.017
5520	0.017
5580	0.018
5640	0.018
5700	0.018
5760	0.018
5820	0.018
5880	0.017
5940	0.018
6000	0.018
6060	0.018
6120	0.018
6180	0.018
6240	0.018
6300	0.018
6360	0.018
6420	0.018
6480	0.018
6540	0.018
6600	0.018
6660	0.018
6720	0.018
6780	0.018
6840	0.018
6900	0.018
6960	0.018
7020	0.018
7080	0.018
7140	0.018
7200	0.018
7260	0.018

7320	0.018
7380	0.018
7440	0.018
7500	0.018
7560	0.018
7620	0.018
7680	0.018
7740	0.018
7800	0.018
7860	0.018
7920	0.018
7980	0.018
8040	0.018
8100	0.018
8160	0.018
8220	0.018
8280	0.018
8340	0.018
8400	0.018
8460	0.018
8520	0.018
8580	0.018
8640	0.018
8700	0.018
8760	0.018
8820	0.018
8880	0.018
8940	0.018
9000	0.018
9060	0.018
9120	0.019
9180	0.019
9240	0.019
9300	0.019
9360	0.019
9420	0.019
9480	0.019
9540	0.019
9600	0.019
9660	0.019
9720	0.019
9780	0.019
9840	0.019
9900	0.019
9960	0.019
10020	0.019
10080	0.019

10140	0.019
10200	0.019
10260	0.018
10320	0.019
10380	0.019
10440	0.019
10500	0.018
10560	0.019
10620	0.019
10680	0.019
10740	0.019
10800	0.019
10860	0.019
10920	0.019
10980	0.019
11040	0.019
11100	0.019
11160	0.019
11220	0.019
11280	0.019
11340	0.019
11400	0.019
11460	0.019
11520	0.019
11580	0.019
11640	0.019
11700	0.019
11760	0.019
11820	0.019
11880	0.019
11940	0.019
12000	0.019
12060	0.019
12120	0.019
12180	0.019
12240	0.019
12300	0.019
12360	0.019
12420	0.019
12480	0.019
12540	0.019
12600	0.02
12660	0.02
12720	0.02
12780	0.02
12840	0.02
12900	0.02

12960	0.02
13020	0.02
13080	0.02
13140	0.02
13200	0.02
13260	0.02
13320	0.02
13380	0.02
13440	0.02
13500	0.02
13560	0.02
13620	0.02
13680	0.019
13740	0.019
13800	0.019
13860	0.02
13920	0.02
13980	0.019
14040	0.02
14100	0.02
14160	0.02
14220	0.02
14280	0.02
14340	0.02
14400	0.02
14460	0.02
14520	0.02
14580	0.02
14640	0.021
14700	0.021
14760	0.02
14820	0.02
14880	0.021
14940	0.021
15000	0.02
15060	0.02
15120	0.02
15180	0.02
15240	0.021
15300	0.021
15360	0.021
15420	0.021
15480	0.021
15540	0.021
15600	0.021
15660	0.021
15720	0.021

15780	0.021
15840	0.022
15900	0.022
15960	0.022
16020	0.022
16080	0.022
16140	0.022
16200	0.022
16260	0.022
16320	0.022
16380	0.022
16440	0.022
16500	0.022
16560	0.022
16620	0.022
16680	0.022
16740	0.022
16800	0.022
16860	0.023
16920	0.023
16980	0.023
17040	0.022
17100	0.022
17160	0.022
17220	0.022
17280	0.022
17340	0.022
17400	0.022
17460	0.022
17520	0.022
17580	0.021
17640	0.021
17700	0.022
17760	0.022
17820	0.022
17880	0.022
17940	0.022
18000	0.022
18060	0.022
18120	0.022
18180	0.022
18240	0.022
18300	0.022
18360	0.022
18420	0.022
18480	0.022
18540	0.022

18600	0.022
18660	0.023
18720	0.023
18780	0.023
18840	0.023
18900	0.023
18960	0.023
19020	0.022
19080	0.023
19140	0.023
19200	0.022
19260	0.022
19320	0.023
19380	0.022
19440	0.022
19500	0.022
19560	0.022
19620	0.022
19680	0.022
19740	0.023
19800	0.023
19860	0.023
19920	0.023
19980	0.023
20040	0.022
20100	0.022
20160	0.022
20220	0.022
20280	0.022
20340	0.022
20400	0.022
20460	0.023
20520	0.022
20580	0.022
20640	0.022
20700	0.022
20760	0.023
20820	0.023
20880	0.022
20940	0.022
21000	0.022
21060	0.023
21120	0.023
21180	0.022
21240	0.022
21300	0.023
21360	0.022

21420	0.022
21480	0.022
21540	0.022
21600	0.022
21660	0.022
21720	0.022
21780	0.022
21840	0.022
21900	0.022
21960	0.022
22020	0.022
22080	0.022
22140	0.022
22200	0.022
22260	0.022
22320	0.022
22380	0.022
22440	0.022
22500	0.022
22560	0.022
22620	0.022
22680	0.022
22740	0.022
22800	0.022
22860	0.022
22920	0.022
22980	0.023
23040	0.022
23100	0.023
23160	0.022
23220	0.022
23280	0.022
23340	0.022
23400	0.022
23460	0.022
23520	0.022
23580	0.022
23640	0.023
23700	0.022
23760	0.022
23820	0.022
23880	0.022
23940	0.022
24000	0.022
24060	0.022
24120	0.022
24180	0.022

24240	0.022
24300	0.022
24360	0.022
24420	0.022
24480	0.022
24540	0.022
24600	0.022
24660	0.022
24720	0.021
24780	0.022
24840	0.021
24900	0.021
24960	0.021
25020	0.021
25080	0.021
25140	0.021
25200	0.021
25260	0.021
25320	0.021
25380	0.021
25440	0.021
25500	0.02
25560	0.02
25620	0.02
25680	0.02
25740	0.02
25800	0.02
25860	0.02
25920	0.02
25980	0.02
26040	0.02
26100	0.02
26160	0.02
26220	0.019
26280	0.02
26340	0.02
26400	0.02
26460	0.019
26520	0.019
26580	0.019
26640	0.019
26700	0.019
26760	0.019
26820	0.019
26880	0.019
26940	0.019
27000	0.019

Max Instant Conc.	
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27060	0.019
27120	0.019
27180	0.019
27240	0.019
27300	0.02
27360	0.019
27420	0.02
27480	0.019
27540	0.019
27600	0.02
27660	0.02
27720	0.019
27780	0.02
27840	0.02
27900	0.02
27960	0.019
28020	0.02
28080	0.02
28140	0.019
28200	0.019
28260	0.02
28320	0.02
28380	0.019
28440	0.019
28500	0.019
28560	0.019
28620	0.02
28680	0.02
28740	0.02
28800	0.02
28860	0.02
28920	0.02
28980	0.02
29040	0.02
29100	0.02
29160	0.02
29220	0.02
29280	0.02
29340	0.02
29400	0.02
29460	0.02
29520	0.02
29580	0.021
29640	0.02
29700	0.02
29760	0.02
29820	0.02

29880	0.02	
29940	0.02	
30000	0.02	
30060	0.02	
30120	0.019	
30180	0.021	
30240	0.02	
30300	0.019	
30360	0.02	
30420	0.019	
30480	0.019	
30540	0.019	
30600	0.022	
30660	0.02	
30720	0.021	
30780	0.021	
30840	0.02	
30900	0.02	
30960	0.019	
31020	0.019	
31080	0.019	
31140	0.019	
31200	0.019	
31260	0.02	
31320	0.02	
31380	0.02	
31440	0.02	
31500	0.02	
31560	0.02	
31620	0.02	
31680	0.02	
31740	0.02	
31800	0.02	
31860	0.02	
31920	0.02	
86273	0	Max Concentration

Max 15 min TWA Conc.
22.6
18.13333333
18.13333333
18.06666667
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17.93333333
17.86666667
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21.93333333
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21.93333333
21.93333333
21.86666667
21.8
21.73333333
21.66666667
21.6
21.53333333
21.46666667
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21.33333333
21.26666667
21.2
21.06666667
20.93333333
20.86666667
20.73333333
Max 15 min TWA Conc.
20.06666667

19.2
19.13333333
19.06666667
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19.13333333
19.13333333
19.13333333
19.2
19.26666667
19.26666667
19.33333333
19.4
19.46666667
19.46666667
19.53333333
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19.93333333
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20
20
19.93333333
19.93333333
19.8
19.73333333
19.73333333
19.73333333
19.8
19.86666667
19.93333333
19.8
19.8
19.73333333
19.66666667
19.66666667
19.66666667
19.73333333
19.8
18.53333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_022
Test Start Time	6:36:56 AM
Test Start Date	7/8/2020
Test Length [D:H:M]	0:07:04
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.036
Mass Minimum [mg/m3]	0.027
Mass Maximum [mg/m3]	0.102
Mass TWA [mg/m3]	0.032
Photometric User Cal	1
Flow User Cal	0
Errors	Max Concentration
Number of Samples	424

Max Instant Conc.	Max 15 min TWA Conc.
102	42.46666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.032		Max Concentration	
120	0.034		Max Concentration	
180	0.035		Max Concentration	
240	0.035		Max Concentration	
300	0.036		Max Concentration	
360	0.035		Max Concentration	
420	0.035		Max Concentration	
480	0.033		Max Concentration	
540	0.033		Max Concentration	
600	0.035		Max Concentration	
660	0.032		Max Concentration	
720	0.034		Max Concentration	
780	0.034		Max Concentration	
840	0.033		Max Concentration	
900	0.032		Max Concentration	33.86666667
960	0.033		Max Concentration	33.93333333
1020	0.033		Max Concentration	33.86666667
1080	0.062		Max Concentration	35.66666667
1140	0.102		Max Concentration	40.13333333
1200	0.033		Max Concentration	39.93333333
1260	0.03		Max Concentration	39.6
1320	0.031		Max Concentration	39.33333333
1380	0.029		Max Concentration	39.06666667
1440	0.029		Max Concentration	38.8
1500	0.029		Max Concentration	38.4
1560	0.031		Max Concentration	38.33333333
1620	0.03		Max Concentration	38.06666667
1680	0.03		Max Concentration	37.8
1740	0.03		Max Concentration	37.6
1800	0.031		Max Concentration	37.53333333
1860	0.029		Max Concentration	37.26666667
1920	0.034		Max Concentration	37.33333333
1980	0.029		Max Concentration	35.13333333
2040	0.029		Max Concentration	30.26666667
2100	0.03		Max Concentration	30.06666667

2160	0.03	Max Concentration	30.06666667
2220	0.032	Max Concentration	30.13333333
2280	0.029	Max Concentration	30.13333333
2340	0.029	Max Concentration	30.13333333
2400	0.029	Max Concentration	30.13333333
2460	0.028	Max Concentration	29.93333333
2520	0.028	Max Concentration	29.8
2580	0.028	Max Concentration	29.66666667
2640	0.027	Max Concentration	29.46666667
2700	0.027	Max Concentration	29.2
2760	0.027	Max Concentration	29.06666667
2820	0.027	Max Concentration	28.6
2880	0.027	Max Concentration	28.46666667
2940	0.028	Max Concentration	28.4
3000	0.029	Max Concentration	28.33333333
3060	0.031	Max Concentration	28.4
3120	0.032	Max Concentration	28.4
3180	0.038	Max Concentration	29
3240	0.032	Max Concentration	29.2
3300	0.029	Max Concentration	29.2
3360	0.028	Max Concentration	29.2
3420	0.028	Max Concentration	29.2
3480	0.028	Max Concentration	29.2
3540	0.027	Max Concentration	29.2
3600	0.027	Max Concentration	29.2
3660	0.027	Max Concentration	29.2
3720	0.027	Max Concentration	29.2
3780	0.027	Max Concentration	29.2
3840	0.028	Max Concentration	29.2
3900	0.028	Max Concentration	29.13333333
3960	0.029	Max Concentration	29
4020	0.029	Max Concentration	28.8
4080	0.029	Max Concentration	28.2
4140	0.028	Max Concentration	27.93333333
4200	0.029	Max Concentration	27.93333333
4260	0.028	Max Concentration	27.93333333
4320	0.028	Max Concentration	27.93333333
4380	0.028	Max Concentration	27.93333333
4440	0.028	Max Concentration	28
4500	0.028	Max Concentration	28.06666667
4560	0.028	Max Concentration	28.13333333
4620	0.028	Max Concentration	28.2
4680	0.028	Max Concentration	28.26666667
4740	0.028	Max Concentration	28.26666667
4800	0.028	Max Concentration	28.26666667
4860	0.028	Max Concentration	28.2
4920	0.029	Max Concentration	28.2
4980	0.028	Max Concentration	28.13333333
5040	0.027	Max Concentration	28.06666667
5100	0.028	Max Concentration	28
5160	0.028	Max Concentration	28
5220	0.028	Max Concentration	28
5280	0.028	Max Concentration	28
5340	0.028	Max Concentration	28
5400	0.027	Max Concentration	27.93333333

5460	0.027	Max Concentration	27.86666667
5520	0.028	Max Concentration	27.86666667
5580	0.028	Max Concentration	27.86666667
5640	0.027	Max Concentration	27.8
5700	0.028	Max Concentration	27.8
5760	0.028	Max Concentration	27.8
5820	0.028	Max Concentration	27.73333333
5880	0.028	Max Concentration	27.73333333
5940	0.028	Max Concentration	27.8
6000	0.028	Max Concentration	27.8
6060	0.028	Max Concentration	27.8
6120	0.028	Max Concentration	27.8
6180	0.028	Max Concentration	27.8
6240	0.027	Max Concentration	27.73333333
6300	0.027	Max Concentration	27.73333333
6360	0.027	Max Concentration	27.73333333
6420	0.027	Max Concentration	27.66666667
6480	0.027	Max Concentration	27.6
6540	0.028	Max Concentration	27.66666667
6600	0.027	Max Concentration	27.6
6660	0.027	Max Concentration	27.53333333
6720	0.029	Max Concentration	27.6
6780	0.029	Max Concentration	27.66666667
6840	0.029	Max Concentration	27.73333333
6900	0.029	Max Concentration	27.8
6960	0.03	Max Concentration	27.93333333
7020	0.03	Max Concentration	28.06666667
7080	0.03	Max Concentration	28.2
7140	0.032	Max Concentration	28.53333333
7200	0.032	Max Concentration	28.86666667
7260	0.032	Max Concentration	29.2
7320	0.033	Max Concentration	29.6
7380	0.033	Max Concentration	30
7440	0.034	Max Concentration	30.4
7500	0.034	Max Concentration	30.86666667
7560	0.033	Max Concentration	31.26666667
7620	0.033	Max Concentration	31.53333333
7680	0.033	Max Concentration	31.8
7740	0.033	Max Concentration	32.06666667
7800	0.033	Max Concentration	32.33333333
7860	0.034	Max Concentration	32.6
7920	0.034	Max Concentration	32.86666667
7980	0.036	Max Concentration	33.26666667
8040	0.034	Max Concentration	33.4
8100	0.035	Max Concentration	33.6
8160	0.035	Max Concentration	33.8
8220	0.035	Max Concentration	33.93333333
8280	0.034	Max Concentration	34
8340	0.033	Max Concentration	33.93333333
8400	0.034	Max Concentration	33.93333333
8460	0.034	Max Concentration	34
8520	0.034	Max Concentration	34.06666667
8580	0.034	Max Concentration	34.13333333
8640	0.034	Max Concentration	34.2
8700	0.034	Max Concentration	34.26666667

8760	0.034	Max Concentration	34.26666667
8820	0.034	Max Concentration	34.26666667
8880	0.033	Max Concentration	34.06666667
8940	0.034	Max Concentration	34.06666667
9000	0.033	Max Concentration	33.93333333
9060	0.033	Max Concentration	33.8
9120	0.033	Max Concentration	33.66666667
9180	0.034	Max Concentration	33.66666667
9240	0.033	Max Concentration	33.66666667
9300	0.033	Max Concentration	33.6
9360	0.034	Max Concentration	33.6
9420	0.034	Max Concentration	33.6
9480	0.034	Max Concentration	33.6
9540	0.034	Max Concentration	33.6
9600	0.033	Max Concentration	33.53333333
9660	0.033	Max Concentration	33.46666667
9720	0.035	Max Concentration	33.53333333
9780	0.035	Max Concentration	33.66666667
9840	0.035	Max Concentration	33.73333333
9900	0.035	Max Concentration	33.86666667
9960	0.034	Max Concentration	33.93333333
10020	0.035	Max Concentration	34.06666667
10080	0.035	Max Concentration	34.13333333
10140	0.036	Max Concentration	34.33333333
10200	0.033	Max Concentration	34.33333333
10260	0.035	Max Concentration	34.4
10320	0.034	Max Concentration	34.4
10380	0.034	Max Concentration	34.4
10440	0.034	Max Concentration	34.4
10500	0.036	Max Concentration	34.6
10560	0.035	Max Concentration	34.73333333
10620	0.034	Max Concentration	34.66666667
10680	0.035	Max Concentration	34.66666667
10740	0.035	Max Concentration	34.66666667
10800	0.034	Max Concentration	34.6
10860	0.036	Max Concentration	34.73333333
10920	0.034	Max Concentration	34.66666667
10980	0.035	Max Concentration	34.66666667
11040	0.036	Max Concentration	34.66666667
11100	0.034	Max Concentration	34.73333333
11160	0.034	Max Concentration	34.66666667
11220	0.034	Max Concentration	34.66666667
11280	0.034	Max Concentration	34.66666667
11340	0.035	Max Concentration	34.73333333
11400	0.035	Max Concentration	34.66666667
11460	0.034	Max Concentration	34.6
11520	0.035	Max Concentration	34.66666667
11580	0.036	Max Concentration	34.73333333
11640	0.034	Max Concentration	34.66666667
11700	0.035	Max Concentration	34.73333333
11760	0.034	Max Concentration	34.6
11820	0.034	Max Concentration	34.6
11880	0.034	Max Concentration	34.53333333
11940	0.034	Max Concentration	34.4
12000	0.036	Max Concentration	34.53333333

12060	0.036	Max Concentration	34.66666667
12120	0.035	Max Concentration	34.73333333
12180	0.034	Max Concentration	34.73333333
12240	0.037	Max Concentration	34.86666667
12300	0.037	Max Concentration	35
12360	0.034	Max Concentration	35
12420	0.035	Max Concentration	35
12480	0.038	Max Concentration	35.13333333
12540	0.036	Max Concentration	35.26666667
12600	0.036	Max Concentration	35.33333333
12660	0.037	Max Concentration	35.53333333
12720	0.037	Max Concentration	35.73333333
12780	0.036	Max Concentration	35.86666667
12840	0.038	Max Concentration	36.13333333
12900	0.036	Max Concentration	36.13333333
12960	0.036	Max Concentration	36.13333333
13020	0.035	Max Concentration	36.13333333
13080	0.035	Max Concentration	36.2
13140	0.036	Max Concentration	36.13333333
13200	0.037	Max Concentration	36.13333333
13260	0.035	Max Concentration	36.2
13320	0.036	Max Concentration	36.26666667
13380	0.036	Max Concentration	36.13333333
13440	0.038	Max Concentration	36.26666667
13500	0.035	Max Concentration	36.2
13560	0.038	Max Concentration	36.26666667
13620	0.035	Max Concentration	36.13333333
13680	0.035	Max Concentration	36.06666667
13740	0.036	Max Concentration	35.93333333
13800	0.038	Max Concentration	36.06666667
13860	0.038	Max Concentration	36.2
13920	0.036	Max Concentration	36.26666667
13980	0.037	Max Concentration	36.4
14040	0.042	Max Concentration	36.8
14100	0.038	Max Concentration	36.86666667
14160	0.039	Max Concentration	37.13333333
14220	0.039	Max Concentration	37.33333333
14280	0.04	Max Concentration	37.6
14340	0.038	Max Concentration	37.6
14400	0.039	Max Concentration	37.86666667
14460	0.04	Max Concentration	38
14520	0.038	Max Concentration	38.2
14580	0.041	Max Concentration	38.6
14640	0.039	Max Concentration	38.8
14700	0.04	Max Concentration	38.93333333
14760	0.038	Max Concentration	38.93333333
14820	0.039	Max Concentration	39.13333333
14880	0.041	Max Concentration	39.4
14940	0.04	Max Concentration	39.26666667
15000	0.04	Max Concentration	39.4
15060	0.04	Max Concentration	39.46666667
15120	0.04	Max Concentration	39.53333333
15180	0.041	Max Concentration	39.6
15240	0.04	Max Concentration	39.73333333
15300	0.041	Max Concentration	39.86666667

15360	0.041	Max Concentration	39.93333333
15420	0.041	Max Concentration	40.13333333
15480	0.04	Max Concentration	40.06666667
15540	0.041	Max Concentration	40.2
15600	0.042	Max Concentration	40.33333333
15660	0.043	Max Concentration	40.66666667
15720	0.04	Max Concentration	40.73333333
15780	0.039	Max Concentration	40.6
15840	0.039	Max Concentration	40.53333333
15900	0.042	Max Concentration	40.66666667
15960	0.039	Max Concentration	40.6
16020	0.041	Max Concentration	40.66666667
16080	0.039	Max Concentration	40.53333333
16140	0.04	Max Concentration	40.53333333
16200	0.041	Max Concentration	40.53333333
16260	0.039	Max Concentration	40.4
16320	0.039	Max Concentration	40.26666667
16380	0.04	Max Concentration	40.26666667
16440	0.04	Max Concentration	40.2
16500	0.041	Max Concentration	40.13333333
16560	0.043	Max Concentration	40.13333333
16620	0.041	Max Concentration	40.2
16680	0.041	Max Concentration	40.33333333
16740	0.041	Max Concentration	40.46666667
16800	0.041	Max Concentration	40.4
16860	0.042	Max Concentration	40.6
16920	0.041	Max Concentration	40.6
16980	0.042	Max Concentration	40.8
17040	0.042	Max Concentration	40.93333333
17100	0.043	Max Concentration	41.06666667
17160	0.045	Max Concentration	41.46666667
17220	0.041	Max Concentration	41.6
17280	0.043	Max Concentration	41.8
17340	0.042	Max Concentration	41.93333333
17400	0.042	Max Concentration	42
17460	0.042	Max Concentration	41.93333333
17520	0.042	Max Concentration	42
17580	0.042	Max Concentration	42.06666667
17640	0.042	Max Concentration	42.13333333
17700	0.042	Max Concentration	42.2
17760	0.042	Max Concentration	42.2
17820	0.042	Max Concentration	42.26666667
17880	0.043	Max Concentration	42.33333333
17940	0.044	Max Concentration	42.46666667
18000	0.042	Max Concentration	42.4
18060	0.043	Max Concentration	42.26666667
18120	0.043	Max Concentration	42.4
18180	0.042	Max Concentration	42.33333333
18240	0.042	Max Concentration	42.33333333
18300	0.041	Max Concentration	42.26666667
18360	0.043	Max Concentration	42.33333333
18420	0.041	Max Concentration	42.26666667
18480	0.041	Max Concentration	42.2
18540	0.042	Max Concentration	42.2
18600	0.041	Max Concentration	42.13333333

18660	0.041	Max Concentration	42.06666667
18720	0.041	Max Concentration	42
18780	0.041	Max Concentration	41.86666667
18840	0.041	Max Concentration	41.66666667
18900	0.041	Max Concentration	41.6
18960	0.041	Max Concentration	41.46666667
19020	0.04	Max Concentration	41.26666667
19080	0.04	Max Concentration	41.13333333
19140	0.04	Max Concentration	41
19200	0.04	Max Concentration	40.93333333
19260	0.04	Max Concentration	40.73333333
19320	0.041	Max Concentration	40.73333333
19380	0.044	Max Concentration	40.93333333
19440	0.039	Max Concentration	40.73333333
19500	0.039	Max Concentration	40.6
19560	0.04	Max Concentration	40.53333333
19620	0.041	Max Concentration	40.53333333
19680	0.04	Max Concentration	40.46666667
19740	0.039	Max Concentration	40.33333333
19800	0.039	Max Concentration	40.2
19860	0.04	Max Concentration	40.13333333
19920	0.041	Max Concentration	40.2
19980	0.039	Max Concentration	40.13333333
20040	0.039	Max Concentration	40.06666667
20100	0.039	Max Concentration	40
20160	0.04	Max Concentration	40
20220	0.04	Max Concentration	39.93333333
20280	0.039	Max Concentration	39.6
20340	0.039	Max Concentration	39.6
20400	0.042	Max Concentration	39.8
20460	0.04	Max Concentration	39.8
20520	0.04	Max Concentration	39.73333333
20580	0.04	Max Concentration	39.73333333
20640	0.041	Max Concentration	39.86666667
20700	0.04	Max Concentration	39.93333333
20760	0.04	Max Concentration	39.93333333
20820	0.041	Max Concentration	39.93333333
20880	0.04	Max Concentration	40
20940	0.04	Max Concentration	40.06666667
21000	0.04	Max Concentration	40.13333333
21060	0.042	Max Concentration	40.26666667
21120	0.04	Max Concentration	40.26666667
21180	0.041	Max Concentration	40.4
21240	0.041	Max Concentration	40.53333333
21300	0.041	Max Concentration	40.46666667
21360	0.04	Max Concentration	40.46666667
21420	0.041	Max Concentration	40.53333333
21480	0.042	Max Concentration	40.66666667
21540	0.041	Max Concentration	40.66666667
21600	0.041	Max Concentration	40.73333333
21660	0.04	Max Concentration	40.73333333
21720	0.042	Max Concentration	40.8
21780	0.042	Max Concentration	40.93333333
21840	0.04	Max Concentration	40.93333333
21900	0.04	Max Concentration	40.93333333

21960	0.041	Max Concentration	40.86666667
22020	0.04	Max Concentration	40.86666667
22080	0.041	Max Concentration	40.86666667
22140	0.039	Max Concentration	40.73333333
22200	0.04	Max Concentration	40.66666667
22260	0.041	Max Concentration	40.73333333
22320	0.04	Max Concentration	40.66666667
22380	0.042	Max Concentration	40.66666667
22440	0.04	Max Concentration	40.6
22500	0.041	Max Concentration	40.6
22560	0.04	Max Concentration	40.6
22620	0.041	Max Concentration	40.53333333
22680	0.042	Max Concentration	40.53333333
22740	0.042	Max Concentration	40.66666667
22800	0.04	Max Concentration	40.66666667
22860	0.041	Max Concentration	40.66666667
22920	0.041	Max Concentration	40.73333333
22980	0.043	Max Concentration	40.86666667
23040	0.041	Max Concentration	41
23100	0.042	Max Concentration	41.13333333
23160	0.041	Max Concentration	41.13333333
23220	0.043	Max Concentration	41.33333333
23280	0.042	Max Concentration	41.33333333
23340	0.041	Max Concentration	41.4
23400	0.042	Max Concentration	41.46666667
23460	0.041	Max Concentration	41.53333333
23520	0.041	Max Concentration	41.53333333
23580	0.041	Max Concentration	41.46666667
23640	0.042	Max Concentration	41.46666667
23700	0.041	Max Concentration	41.53333333
23760	0.042	Max Concentration	41.6
23820	0.041	Max Concentration	41.6
23880	0.041	Max Concentration	41.46666667
23940	0.042	Max Concentration	41.53333333
24000	0.041	Max Concentration	41.46666667
24060	0.041	Max Concentration	41.46666667
24120	0.041	Max Concentration	41.33333333
24180	0.043	Max Concentration	41.4
24240	0.041	Max Concentration	41.4
24300	0.042	Max Concentration	41.4
24360	0.041	Max Concentration	41.4
24420	0.04	Max Concentration	41.33333333
24480	0.04	Max Concentration	41.26666667
24540	0.039	Max Concentration	41.06666667
24600	0.041	Max Concentration	41.06666667
24660	0.04	Max Concentration	40.93333333
24720	0.041	Max Concentration	40.93333333
24780	0.039	Max Concentration	40.8
24840	0.04	Max Concentration	40.66666667
24900	0.039	Max Concentration	40.53333333
24960	0.039	Max Concentration	40.4
25020	0.039	Max Concentration	40.26666667
25080	0.038	Max Concentration	39.93333333
25140	0.038	Max Concentration	39.73333333
25200	0.038	Max Concentration	39.46666667

25260	0.038	Max Concentration	39.26666667
25320	0.04	Max Concentration	39.26666667
25380	0.038	Max Concentration	39.13333333
25440	0.037	Max Concentration	39

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_023
Test Start Time	6:43:31 AM
Test Start Date	7/9/2020
Test Length [D:H:M]	0:05:52
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.049
Mass Minimum [mg/m3]	0.042
Mass Maximum [mg/m3]	0.076
Mass TWA [mg/m3]	0.036
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	352

Max Instant Conc.	Max 15 min TWA Conc.
76	67.33333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.069			
120	0.075			
180	0.076			
240	0.076			
300	0.076			
360	0.073			
420	0.071			
480	0.069			
540	0.067			
600	0.066			
660	0.063			
720	0.059			
780	0.059			
840	0.057			
900	0.054			67.33333333
960	0.055			66.4
1020	0.053			64.93333333
1080	0.051			63.26666667
1140	0.053			61.73333333
1200	0.051			60.06666667
1260	0.05			58.53333333
1320	0.047			56.93333333
1380	0.047			55.46666667
1440	0.048			54.2
1500	0.048			53
1560	0.047			51.93333333
1620	0.047			51.13333333

1680	0.046	50.26666667
1740	0.046	49.53333333
1800	0.046	49
1860	0.044	48.26666667
1920	0.045	47.73333333
1980	0.045	47.33333333
2040	0.045	46.8
2100	0.045	46.4
2160	0.045	46.06666667
2220	0.048	46.13333333
2280	0.046	46.06666667
2340	0.045	45.86666667
2400	0.044	45.6
2460	0.046	45.53333333
2520	0.047	45.53333333
2580	0.048	45.66666667
2640	0.047	45.73333333
2700	0.047	45.8
2760	0.046	45.93333333
2820	0.046	46
2880	0.046	46.06666667
2940	0.045	46.06666667
3000	0.042	45.86666667
3060	0.042	45.66666667
3120	0.044	45.4
3180	0.046	45.4
3240	0.045	45.4
3300	0.042	45.26666667
3360	0.044	45.13333333
3420	0.045	45
3480	0.044	44.73333333
3540	0.043	44.46666667
3600	0.045	44.33333333
3660	0.046	44.33333333
3720	0.046	44.33333333
3780	0.046	44.33333333
3840	0.045	44.33333333
3900	0.045	44.53333333
3960	0.047	44.86666667
4020	0.046	45
4080	0.045	44.93333333
4140	0.045	44.93333333
4200	0.046	45.2
4260	0.046	45.33333333
4320	0.046	45.4
4380	0.047	45.6
4440	0.047	45.86666667

4500	0.046	45.93333333
4560	0.046	45.93333333
4620	0.046	45.93333333
4680	0.046	45.93333333
4740	0.045	45.93333333
4800	0.045	45.93333333
4860	0.046	45.86666667
4920	0.046	45.86666667
4980	0.046	45.93333333
5040	0.046	46
5100	0.046	46
5160	0.046	46
5220	0.046	46
5280	0.046	45.93333333
5340	0.047	45.93333333
5400	0.046	45.93333333
5460	0.047	46
5520	0.047	46.06666667
5580	0.047	46.13333333
5640	0.047	46.26666667
5700	0.046	46.33333333
5760	0.047	46.4
5820	0.047	46.46666667
5880	0.047	46.53333333
5940	0.048	46.66666667
6000	0.047	46.73333333
6060	0.047	46.8
6120	0.048	46.93333333
6180	0.047	47
6240	0.047	47
6300	0.048	47.13333333
6360	0.048	47.2
6420	0.047	47.2
6480	0.047	47.2
6540	0.047	47.2
6600	0.048	47.33333333
6660	0.047	47.33333333
6720	0.048	47.4
6780	0.049	47.53333333
6840	0.047	47.46666667
6900	0.046	47.4
6960	0.047	47.4
7020	0.047	47.33333333
7080	0.047	47.33333333
7140	0.047	47.33333333
7200	0.047	47.26666667
7260	0.047	47.2

7320	0.048	47.26666667
7380	0.048	47.33333333
7440	0.048	47.4
7500	0.048	47.4
7560	0.047	47.4
7620	0.048	47.4
7680	0.047	47.26666667
7740	0.047	47.26666667
7800	0.047	47.33333333
7860	0.048	47.4
7920	0.049	47.53333333
7980	0.049	47.66666667
8040	0.05	47.86666667
8100	0.05	48.06666667
8160	0.05	48.26666667
8220	0.049	48.33333333
8280	0.049	48.4
8340	0.049	48.46666667
8400	0.048	48.46666667
8460	0.048	48.53333333
8520	0.047	48.46666667
8580	0.048	48.53333333
8640	0.047	48.53333333
8700	0.048	48.6
8760	0.048	48.6
8820	0.048	48.53333333
8880	0.048	48.46666667
8940	0.048	48.33333333
9000	0.048	48.2
9060	0.048	48.06666667
9120	0.048	48
9180	0.047	47.86666667
9240	0.049	47.86666667
9300	0.048	47.86666667
9360	0.049	47.93333333
9420	0.05	48.13333333
9480	0.049	48.2
9540	0.05	48.4
9600	0.049	48.46666667
9660	0.049	48.53333333
9720	0.05	48.66666667
9780	0.049	48.73333333
9840	0.05	48.86666667
9900	0.05	49
9960	0.05	49.13333333
10020	0.049	49.2
10080	0.049	49.33333333

10140	0.049	49.33333333
10200	0.049	49.4
10260	0.049	49.4
10320	0.049	49.33333333
10380	0.049	49.33333333
10440	0.049	49.26666667
10500	0.049	49.26666667
10560	0.049	49.26666667
10620	0.049	49.2
10680	0.049	49.2
10740	0.049	49.13333333
10800	0.049	49.06666667
10860	0.05	49.06666667
10920	0.05	49.13333333
10980	0.05	49.2
11040	0.049	49.2
11100	0.049	49.2
11160	0.05	49.26666667
11220	0.051	49.4
11280	0.051	49.53333333
11340	0.051	49.66666667
11400	0.051	49.8
11460	0.05	49.86666667
11520	0.05	49.93333333
11580	0.049	49.93333333
11640	0.05	50
11700	0.05	50.06666667
11760	0.05	50.06666667
11820	0.049	50
11880	0.049	49.93333333
11940	0.049	49.93333333
12000	0.049	49.93333333
12060	0.05	49.93333333
12120	0.05	49.86666667
12180	0.049	49.73333333
12240	0.049	49.6
12300	0.05	49.53333333
12360	0.052	49.66666667
12420	0.051	49.73333333
12480	0.051	49.86666667
12540	0.051	49.93333333
12600	0.051	50
12660	0.051	50.06666667
12720	0.05	50.13333333
12780	0.05	50.2
12840	0.05	50.26666667
12900	0.05	50.33333333

12960	0.051	50.4
13020	0.051	50.46666667
13080	0.05	50.53333333
13140	0.052	50.73333333
13200	0.051	50.8
13260	0.05	50.66666667
13320	0.05	50.6
13380	0.05	50.53333333
13440	0.05	50.46666667
13500	0.05	50.4
13560	0.05	50.33333333
13620	0.05	50.33333333
13680	0.049	50.26666667
13740	0.049	50.2
13800	0.049	50.13333333
13860	0.049	50
13920	0.051	50
13980	0.049	49.93333333
14040	0.049	49.73333333
14100	0.049	49.6
14160	0.048	49.46666667
14220	0.048	49.33333333
14280	0.049	49.26666667
14340	0.049	49.2
14400	0.049	49.13333333
14460	0.05	49.13333333
14520	0.05	49.13333333
14580	0.05	49.2
14640	0.05	49.26666667
14700	0.05	49.33333333
14760	0.05	49.4
14820	0.051	49.4
14880	0.049	49.4
14940	0.048	49.33333333
15000	0.049	49.33333333
15060	0.049	49.4
15120	0.049	49.46666667
15180	0.05	49.53333333
15240	0.05	49.6
15300	0.05	49.66666667
15360	0.049	49.6
15420	0.049	49.53333333
15480	0.05	49.53333333
15540	0.051	49.6
15600	0.049	49.53333333
15660	0.05	49.53333333
15720	0.048	49.33333333

15780	0.049	49.33333333
15840	0.048	49.33333333
15900	0.049	49.33333333
15960	0.049	49.33333333
16020	0.05	49.4
16080	0.05	49.4
16140	0.05	49.4
16200	0.051	49.46666667
16260	0.051	49.6
16320	0.05	49.66666667
16380	0.05	49.66666667
16440	0.05	49.6
16500	0.05	49.66666667
16560	0.051	49.73333333
16620	0.053	50.06666667
16680	0.05	50.13333333
16740	0.05	50.26666667
16800	0.05	50.33333333
16860	0.05	50.4
16920	0.05	50.4
16980	0.05	50.4
17040	0.047	50.2
17100	0.048	50
17160	0.048	49.8
17220	0.048	49.66666667
17280	0.049	49.6
17340	0.049	49.53333333
17400	0.05	49.53333333
17460	0.048	49.33333333
17520	0.048	49
17580	0.048	48.86666667
17640	0.048	48.73333333
17700	0.049	48.66666667
17760	0.048	48.53333333
17820	0.048	48.4
17880	0.048	48.26666667
17940	0.049	48.4
18000	0.048	48.4
18060	0.047	48.33333333
18120	0.047	48.26666667
18180	0.047	48.13333333
18240	0.048	48.06666667
18300	0.048	47.93333333
18360	0.049	48
18420	0.049	48.06666667
18480	0.049	48.13333333
18540	0.048	48.13333333

18600	0.048	48.06666667
18660	0.048	48.06666667
18720	0.048	48.06666667
18780	0.048	48.06666667
18840	0.046	47.86666667
18900	0.046	47.73333333
18960	0.047	47.73333333
19020	0.046	47.66666667
19080	0.045	47.53333333
19140	0.046	47.4
19200	0.046	47.26666667
19260	0.046	47.06666667
19320	0.046	46.86666667
19380	0.046	46.66666667
19440	0.047	46.6
19500	0.047	46.53333333
19560	0.047	46.46666667
19620	0.047	46.4
19680	0.047	46.33333333
19740	0.047	46.4
19800	0.046	46.4
19860	0.046	46.33333333
19920	0.047	46.4
19980	0.047	46.53333333
20040	0.048	46.66666667
20100	0.048	46.8
20160	0.047	46.86666667
20220	0.047	46.93333333
20280	0.046	46.93333333
20340	0.047	46.93333333
20400	0.048	47
20460	0.047	47
20520	0.049	47.13333333
20580	0.048	47.2
20640	0.047	47.2
20700	0.047	47.26666667
20760	0.047	47.33333333
20820	0.046	47.26666667
20880	0.046	47.2
20940	0.046	47.06666667
21000	0.046	46.93333333
21060	0.045	46.8
21120	0.047	46.8

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_024
Test Start Time	6:35:32 AM
Test Start Date	7/10/2020
Test Length [D:H:M]	0:00:20
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.019
Mass Minimum [mg/m3]	0.016
Mass Maximum [mg/m3]	0.02
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	20

Max Instant Conc.	Max 15 min TWA Conc.
20	19

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.019			
120	0.02			
180	0.02			
240	0.02			
300	0.02			
360	0.02			
420	0.019			
480	0.019			
540	0.019			
600	0.019			
660	0.018			
720	0.018			
780	0.018			
840	0.018			
900	0.018			19
960	0.018			18.93333333
1020	0.018			18.8
1080	0.017			18.6
1140	0.016			18.33333333
1200	0.016			18.06666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_025
Test Start Time	9:43:51 AM
Test Start Date	7/10/2020
Test Length [D:H:M]	0:03:00
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.012
Mass Minimum [mg/m3]	0.01
Mass Maximum [mg/m3]	0.025
Mass TWA [mg/m3]	0.005
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	180

Max Instant Conc.	Max 15 min TWA Conc.
10	14.2

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.01			
120	0.01			
180	0.01			
240	0.011			
300	0.011			
360	0.011			
420	0.011			
480	0.011			
540	0.011			
600	0.01			
660	0.01			
720	0.01			
780	0.01			
840	0.01			10.42857143
900	0.01			10.4
960	0.011			10.46666667
1020	0.01			10.46666667
1080	0.01			10.46666667
1140	0.01			10.4
1200	0.01			10.33333333
1260	0.01			10.26666667
1320	0.01			10.2
1380	0.01			10.13333333
1440	0.01			10.06666667
1500	0.01			10.06666667
1560	0.011			10.13333333
1620	0.011			10.2

1680	0.011	10.26666667
1740	0.011	10.33333333
1800	0.011	10.4
1860	0.011	10.4
1920	0.011	10.46666667
1980	0.011	10.53333333
2040	0.011	10.6
2100	0.011	10.66666667
2160	0.011	10.73333333
2220	0.011	10.8
2280	0.011	10.86666667
2340	0.011	10.93333333
2400	0.013	11.13333333
2460	0.011	11.13333333
2520	0.011	11.13333333
2580	0.012	11.2
2640	0.011	11.2
2700	0.011	11.2
2760	0.011	11.2
2820	0.011	11.2
2880	0.011	11.2
2940	0.012	11.26666667
3000	0.012	11.33333333
3060	0.013	11.46666667
3120	0.012	11.53333333
3180	0.012	11.6
3240	0.012	11.66666667
3300	0.012	11.6
3360	0.025	12.53333333
3420	0.021	13.2
3480	0.012	13.2
3540	0.012	13.26666667
3600	0.013	13.4
3660	0.013	13.53333333
3720	0.013	13.66666667
3780	0.013	13.8
3840	0.013	13.86666667
3900	0.012	13.86666667
3960	0.013	13.86666667
4020	0.014	14
4080	0.013	14.06666667
4140	0.013	14.13333333
4200	0.013	14.2
4260	0.014	13.46666667
4320	0.013	12.93333333
4380	0.013	13
4440	0.013	13.06666667

4500	0.013	13.06666667
4560	0.013	13.06666667
4620	0.013	13.06666667
4680	0.013	13.06666667
4740	0.013	13.06666667
4800	0.013	13.13333333
4860	0.013	13.13333333
4920	0.013	13.06666667
4980	0.013	13.06666667
5040	0.013	13.06666667
5100	0.013	13.06666667
5160	0.013	13
5220	0.014	13.06666667
5280	0.013	13.06666667
5340	0.013	13.06666667
5400	0.013	13.06666667
5460	0.015	13.2
5520	0.013	13.2
5580	0.013	13.2
5640	0.013	13.2
5700	0.013	13.2
5760	0.013	13.2
5820	0.013	13.2
5880	0.013	13.2
5940	0.013	13.2
6000	0.014	13.26666667
6060	0.013	13.26666667
6120	0.013	13.2
6180	0.013	13.2
6240	0.013	13.2
6300	0.013	13.2
6360	0.013	13.06666667
6420	0.013	13.06666667
6480	0.013	13.06666667
6540	0.013	13.06666667
6600	0.013	13.06666667
6660	0.013	13.06666667
6720	0.013	13.06666667
6780	0.012	13
6840	0.013	13
6900	0.013	12.93333333
6960	0.012	12.86666667
7020	0.013	12.86666667
7080	0.012	12.8
7140	0.014	12.86666667
7200	0.012	12.8
7260	0.012	12.73333333

7320	0.013	12.73333333
7380	0.012	12.66666667
7440	0.013	12.66666667
7500	0.013	12.66666667
7560	0.012	12.6
7620	0.013	12.6
7680	0.013	12.66666667
7740	0.013	12.66666667
7800	0.013	12.66666667
7860	0.013	12.73333333
7920	0.013	12.73333333
7980	0.013	12.8
8040	0.013	12.73333333
8100	0.013	12.8
8160	0.013	12.86666667
8220	0.014	12.93333333
8280	0.013	13
8340	0.013	13
8400	0.014	13.06666667
8460	0.013	13.13333333
8520	0.013	13.13333333
8580	0.014	13.2
8640	0.013	13.2
8700	0.013	13.2
8760	0.013	13.2
8820	0.013	13.2
8880	0.013	13.2
8940	0.013	13.2
9000	0.013	13.2
9060	0.013	13.2
9120	0.013	13.13333333
9180	0.013	13.13333333
9240	0.013	13.13333333
9300	0.013	13.06666667
9360	0.013	13.06666667
9420	0.013	13.06666667
9480	0.013	13
9540	0.013	13
9600	0.013	13
9660	0.013	13
9720	0.013	13
9780	0.013	13
9840	0.014	13.06666667
9900	0.013	13.06666667
9960	0.012	13
10020	0.012	12.93333333
10080	0.013	12.93333333

10140	0.014	13
10200	0.013	13
10260	0.012	12.93333333
10320	0.013	12.93333333
10380	0.012	12.86666667
10440	0.013	12.86666667
10500	0.013	12.86666667
10560	0.013	12.86666667
10620	0.013	12.86666667
10680	0.013	12.86666667
10740	0.013	12.8
10800	0.013	12.8

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_026
Test Start Time	6:38:42 AM
Test Start Date	7/13/2020
Test Length [D:H:M]	0:07:18
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.018
Mass Maximum [mg/m3]	0.043
Mass TWA [mg/m3]	0.02
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	438

Max Instant Conc.	Max 15 min TWA Conc.
43	34.13333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.023			
120	0.023			
180	0.023			
240	0.023			
300	0.024			
360	0.024			
420	0.025			
480	0.024			
540	0.024			
600	0.024			
660	0.024			
720	0.024			
780	0.023			
840	0.023			
900	0.024			23.66666667
960	0.024			23.73333333
1020	0.024			23.8
1080	0.024			23.86666667
1140	0.024			23.93333333
1200	0.023			23.86666667
1260	0.024			23.86666667
1320	0.025			23.86666667
1380	0.023			23.8
1440	0.023			23.73333333
1500	0.023			23.66666667
1560	0.023			23.6
1620	0.023			23.53333333

1680	0.023	23.53333333
1740	0.023	23.53333333
1800	0.023	23.46666667
1860	0.023	23.4
1920	0.023	23.33333333
1980	0.023	23.26666667
2040	0.023	23.2
2100	0.022	23.13333333
2160	0.022	23
2220	0.022	22.8
2280	0.022	22.73333333
2340	0.023	22.73333333
2400	0.023	22.73333333
2460	0.023	22.73333333
2520	0.023	22.73333333
2580	0.023	22.73333333
2640	0.023	22.73333333
2700	0.023	22.73333333
2760	0.023	22.73333333
2820	0.023	22.73333333
2880	0.022	22.66666667
2940	0.022	22.6
3000	0.022	22.6
3060	0.022	22.6
3120	0.022	22.6
3180	0.023	22.66666667
3240	0.023	22.66666667
3300	0.023	22.66666667
3360	0.023	22.66666667
3420	0.023	22.66666667
3480	0.023	22.66666667
3540	0.024	22.73333333
3600	0.024	22.8
3660	0.024	22.86666667
3720	0.024	22.93333333
3780	0.024	23.06666667
3840	0.024	23.2
3900	0.023	23.26666667
3960	0.024	23.4
4020	0.024	23.53333333
4080	0.023	23.53333333
4140	0.023	23.53333333
4200	0.023	23.53333333
4260	0.024	23.6
4320	0.025	23.73333333
4380	0.024	23.8
4440	0.024	23.8

4500	0.024	23.8
4560	0.023	23.73333333
4620	0.023	23.66666667
4680	0.024	23.66666667
4740	0.023	23.6
4800	0.023	23.6
4860	0.024	23.6
4920	0.023	23.53333333
4980	0.023	23.53333333
5040	0.023	23.53333333
5100	0.022	23.46666667
5160	0.023	23.4
5220	0.022	23.2
5280	0.022	23.06666667
5340	0.022	22.93333333
5400	0.022	22.8
5460	0.022	22.73333333
5520	0.022	22.66666667
5580	0.022	22.53333333
5640	0.022	22.46666667
5700	0.022	22.4
5760	0.022	22.26666667
5820	0.023	22.26666667
5880	0.022	22.2
5940	0.023	22.2
6000	0.022	22.2
6060	0.022	22.13333333
6120	0.022	22.13333333
6180	0.022	22.13333333
6240	0.022	22.13333333
6300	0.022	22.13333333
6360	0.022	22.13333333
6420	0.022	22.13333333
6480	0.022	22.13333333
6540	0.022	22.13333333
6600	0.021	22.06666667
6660	0.021	22
6720	0.021	21.86666667
6780	0.022	21.86666667
6840	0.022	21.8
6900	0.021	21.73333333
6960	0.02	21.6
7020	0.021	21.53333333
7080	0.021	21.46666667
7140	0.02	21.33333333
7200	0.023	21.4
7260	0.019	21.2

7320	0.019	21
7380	0.019	20.8
7440	0.019	20.6
7500	0.019	20.46666667
7560	0.02	20.4
7620	0.02	20.33333333
7680	0.021	20.26666667
7740	0.02	20.13333333
7800	0.02	20.06666667
7860	0.02	20.06666667
7920	0.02	20
7980	0.019	19.86666667
8040	0.019	19.8
8100	0.018	19.46666667
8160	0.019	19.46666667
8220	0.019	19.46666667
8280	0.02	19.53333333
8340	0.02	19.6
8400	0.02	19.66666667
8460	0.019	19.6
8520	0.019	19.53333333
8580	0.019	19.4
8640	0.018	19.26666667
8700	0.018	19.13333333
8760	0.018	19
8820	0.018	18.86666667
8880	0.018	18.8
8940	0.018	18.73333333
9000	0.019	18.8
9060	0.019	18.8
9120	0.019	18.8
9180	0.019	18.73333333
9240	0.019	18.66666667
9300	0.019	18.6
9360	0.019	18.6
9420	0.019	18.6
9480	0.019	18.6
9540	0.019	18.66666667
9600	0.019	18.73333333
9660	0.019	18.8
9720	0.019	18.86666667
9780	0.019	18.93333333
9840	0.02	19.06666667
9900	0.019	19.06666667
9960	0.02	19.13333333
10020	0.02	19.2
10080	0.02	19.26666667

10140	0.02	19.33333333
10200	0.02	19.4
10260	0.02	19.46666667
10320	0.021	19.6
10380	0.023	19.86666667
10440	0.02	19.93333333
10500	0.02	20
10560	0.02	20.06666667
10620	0.02	20.13333333
10680	0.02	20.2
10740	0.02	20.2
10800	0.02	20.26666667
10860	0.02	20.26666667
10920	0.02	20.26666667
10980	0.02	20.26666667
11040	0.02	20.26666667
11100	0.028	20.8
11160	0.024	21.06666667
11220	0.021	21.06666667
11280	0.021	20.93333333
11340	0.021	21
11400	0.021	21.06666667
11460	0.021	21.13333333
11520	0.021	21.2
11580	0.021	21.26666667
11640	0.02	21.26666667
11700	0.021	21.33333333
11760	0.02	21.33333333
11820	0.023	21.53333333
11880	0.021	21.6
11940	0.02	21.6
12000	0.02	21.06666667
12060	0.02	20.8
12120	0.02	20.73333333
12180	0.019	20.6
12240	0.02	20.53333333
12300	0.02	20.46666667
12360	0.02	20.4
12420	0.02	20.33333333
12480	0.02	20.26666667
12540	0.02	20.26666667
12600	0.02	20.2
12660	0.02	20.2
12720	0.02	20
12780	0.02	19.93333333
12840	0.02	19.93333333
12900	0.02	19.93333333

12960	0.02	19.93333333
13020	0.021	20
13080	0.021	20.13333333
13140	0.02	20.13333333
13200	0.02	20.13333333
13260	0.021	20.2
13320	0.021	20.26666667
13380	0.022	20.4
13440	0.022	20.53333333
13500	0.021	20.6
13560	0.02	20.6
13620	0.022	20.73333333
13680	0.02	20.73333333
13740	0.02	20.73333333
13800	0.021	20.8
13860	0.022	20.93333333
13920	0.021	20.93333333
13980	0.021	20.93333333
14040	0.021	21
14100	0.023	21.2
14160	0.022	21.26666667
14220	0.021	21.26666667
14280	0.022	21.26666667
14340	0.021	21.2
14400	0.022	21.26666667
14460	0.021	21.33333333
14520	0.021	21.26666667
14580	0.021	21.33333333
14640	0.021	21.4
14700	0.02	21.33333333
14760	0.02	21.2
14820	0.02	21.13333333
14880	0.02	21.06666667
14940	0.02	21
15000	0.019	20.73333333
15060	0.02	20.6
15120	0.02	20.53333333
15180	0.02	20.4
15240	0.021	20.4
15300	0.022	20.4
15360	0.021	20.4
15420	0.021	20.4
15480	0.021	20.4
15540	0.022	20.46666667
15600	0.022	20.6
15660	0.021	20.66666667
15720	0.021	20.73333333

15780	0.022	20.86666667
15840	0.021	20.93333333
15900	0.021	21.06666667
15960	0.021	21.13333333
16020	0.021	21.2
16080	0.022	21.33333333
16140	0.022	21.4
16200	0.022	21.4
16260	0.022	21.46666667
16320	0.022	21.53333333
16380	0.022	21.6
16440	0.021	21.53333333
16500	0.021	21.46666667
16560	0.021	21.46666667
16620	0.021	21.46666667
16680	0.021	21.4
16740	0.021	21.4
16800	0.023	21.53333333
16860	0.022	21.6
16920	0.023	21.73333333
16980	0.021	21.66666667
17040	0.022	21.66666667
17100	0.02	21.53333333
17160	0.02	21.4
17220	0.021	21.33333333
17280	0.02	21.2
17340	0.021	21.2
17400	0.024	21.4
17460	0.02	21.33333333
17520	0.021	21.33333333
17580	0.02	21.26666667
17640	0.02	21.2
17700	0.021	21.06666667
17760	0.021	21
17820	0.021	20.86666667
17880	0.021	20.86666667
17940	0.021	20.8
18000	0.021	20.86666667
18060	0.021	20.93333333
18120	0.022	21
18180	0.021	21.06666667
18240	0.021	21.06666667
18300	0.022	20.93333333
18360	0.022	21.06666667
18420	0.022	21.13333333
18480	0.022	21.26666667
18540	0.022	21.4

18600	0.022	21.46666667
18660	0.021	21.46666667
18720	0.021	21.46666667
18780	0.021	21.46666667
18840	0.021	21.46666667
18900	0.021	21.46666667
18960	0.021	21.46666667
19020	0.021	21.4
19080	0.021	21.4
19140	0.022	21.46666667
19200	0.021	21.4
19260	0.021	21.33333333
19320	0.021	21.26666667
19380	0.02	21.13333333
19440	0.02	21
19500	0.02	20.86666667
19560	0.02	20.8
19620	0.021	20.8
19680	0.021	20.8
19740	0.019	20.66666667
19800	0.019	20.53333333
19860	0.02	20.46666667
19920	0.02	20.4
19980	0.021	20.4
20040	0.021	20.33333333
20100	0.02	20.26666667
20160	0.021	20.26666667
20220	0.021	20.26666667
20280	0.021	20.33333333
20340	0.021	20.4
20400	0.023	20.6
20460	0.024	20.86666667
20520	0.024	21.06666667
20580	0.025	21.33333333
20640	0.025	21.73333333
20700	0.024	22.06666667
20760	0.025	22.4
20820	0.025	22.73333333
20880	0.025	23
20940	0.025	23.26666667
21000	0.025	23.6
21060	0.027	24
21120	0.027	24.4
21180	0.026	24.73333333
21240	0.027	25.13333333
21300	0.028	25.46666667
21360	0.029	25.8

21420	0.031	26.26666667
21480	0.034	26.86666667
21540	0.038	27.73333333
21600	0.035	28.46666667
21660	0.032	28.93333333
21720	0.033	29.46666667
21780	0.033	30
21840	0.033	30.53333333
21900	0.043	31.73333333
21960	0.034	32.2
22020	0.034	32.66666667
22080	0.032	33.06666667
22140	0.032	33.4
22200	0.032	33.66666667
22260	0.034	34
22320	0.033	34.13333333
22380	0.033	34.06666667
22440	0.034	33.8
22500	0.034	33.73333333
22560	0.033	33.8
22620	0.032	33.73333333
22680	0.032	33.66666667
22740	0.03	33.46666667
22800	0.028	32.46666667
22860	0.026	31.93333333
22920	0.025	31.33333333
22980	0.024	30.8
23040	0.023	30.2
23100	0.025	29.73333333
23160	0.024	29.06666667
23220	0.023	28.4
23280	0.024	27.8
23340	0.024	27.13333333
23400	0.024	26.46666667
23460	0.024	25.86666667
23520	0.024	25.33333333
23580	0.022	24.66666667
23640	0.024	24.26666667
23700	0.022	23.86666667
23760	0.023	23.66666667
23820	0.022	23.46666667
23880	0.023	23.4
23940	0.022	23.33333333
24000	0.022	23.13333333
24060	0.022	23
24120	0.023	23
24180	0.022	22.86666667

24240	0.022	22.73333333
24300	0.022	22.6
24360	0.021	22.4
24420	0.022	22.26666667
24480	0.021	22.2
24540	0.022	22.06666667
24600	0.021	22
24660	0.022	21.93333333
24720	0.022	21.93333333
24780	0.021	21.8
24840	0.021	21.73333333
24900	0.022	21.73333333
24960	0.022	21.73333333
25020	0.025	21.86666667
25080	0.022	21.86666667
25140	0.021	21.8
25200	0.022	21.8
25260	0.021	21.8
25320	0.021	21.73333333
25380	0.022	21.8
25440	0.021	21.73333333
25500	0.022	21.8
25560	0.022	21.8
25620	0.022	21.8
25680	0.022	21.86666667
25740	0.023	22
25800	0.021	21.93333333
25860	0.022	21.93333333
25920	0.021	21.66666667
25980	0.021	21.6
26040	0.021	21.6
26100	0.021	21.53333333
26160	0.022	21.6
26220	0.021	21.6
26280	0.021	21.53333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_027
Test Start Time	6:35:52 AM
Test Start Date	7/14/2020
Test Length [D:H:M]	0:00:16
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.012
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.014
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	13

Max Instant Conc.	Max 15 min TWA Conc.
14	14

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.013		
120	0.013		
180	0.014		
240	0.014		
300	0.014		
360	0.014		
420	0.013		
480	0.014		
540	0.014		
600	0.014		
660	0.014		
958	0		
960	0.001		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_028
Test Start Time	6:53:20 AM
Test Start Date	7/14/2020
Test Length [D:H:M]	0:07:51
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.017
Mass Minimum [mg/m3]	0.013
Mass Maximum [mg/m3]	0.048
Mass TWA [mg/m3]	0.017
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	471

Max Instant Conc.	Max 15 min TWA Conc.
13	20.8

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.013			
120	0.014			
180	0.014			
240	0.014			
300	0.014			
360	0.014			
420	0.013			
480	0.013			
540	0.013			
600	0.013			
660	0.017			
720	0.014			
780	0.014			
840	0.014			13.85714286
900	0.014			13.86666667
960	0.014			13.93333333
1020	0.014			13.93333333
1080	0.013			13.86666667
1140	0.014			13.86666667
1200	0.014			13.86666667
1260	0.013			13.8
1320	0.013			13.8
1380	0.014			13.86666667
1440	0.014			13.93333333
1500	0.014			14
1560	0.014			13.8
1620	0.014			13.8

1680	0.014	13.8
1740	0.014	13.8
1800	0.014	13.8
1860	0.014	13.8
1920	0.015	13.86666667
1980	0.014	13.93333333
2040	0.014	13.93333333
2100	0.014	13.93333333
2160	0.015	14.06666667
2220	0.014	14.13333333
2280	0.014	14.13333333
2340	0.014	14.13333333
2400	0.014	14.13333333
2460	0.014	14.13333333
2520	0.014	14.13333333
2580	0.015	14.2
2640	0.015	14.26666667
2700	0.015	14.33333333
2760	0.015	14.4
2820	0.015	14.4
2880	0.015	14.46666667
2940	0.015	14.53333333
3000	0.016	14.66666667
3060	0.016	14.73333333
3120	0.016	14.86666667
3180	0.016	15
3240	0.016	15.13333333
3300	0.015	15.2
3360	0.016	15.33333333
3420	0.015	15.4
3480	0.015	15.4
3540	0.015	15.4
3600	0.015	15.4
3660	0.016	15.46666667
3720	0.015	15.46666667
3780	0.015	15.46666667
3840	0.015	15.46666667
3900	0.015	15.4
3960	0.015	15.33333333
4020	0.016	15.33333333
4080	0.016	15.33333333
4140	0.016	15.33333333
4200	0.016	15.4
4260	0.016	15.4
4320	0.016	15.46666667
4380	0.017	15.6
4440	0.016	15.66666667

4500	0.017	15.8
4560	0.016	15.8
4620	0.016	15.86666667
4680	0.016	15.93333333
4740	0.016	16
4800	0.016	16.06666667
4860	0.016	16.13333333
4920	0.016	16.13333333
4980	0.016	16.13333333
5040	0.016	16.13333333
5100	0.016	16.13333333
5160	0.016	16.13333333
5220	0.016	16.13333333
5280	0.016	16.06666667
5340	0.016	16.06666667
5400	0.016	16
5460	0.016	16
5520	0.017	16.06666667
5580	0.017	16.13333333
5640	0.016	16.13333333
5700	0.016	16.13333333
5760	0.016	16.13333333
5820	0.016	16.13333333
5880	0.016	16.13333333
5940	0.016	16.13333333
6000	0.016	16.13333333
6060	0.02	16.4
6120	0.017	16.46666667
6180	0.017	16.53333333
6240	0.017	16.6
6300	0.017	16.66666667
6360	0.017	16.73333333
6420	0.018	16.8
6480	0.017	16.8
6540	0.017	16.86666667
6600	0.017	16.93333333
6660	0.017	17
6720	0.017	17.06666667
6780	0.016	17.06666667
6840	0.016	17.06666667
6900	0.016	17.06666667
6960	0.016	16.8
7020	0.02	17
7080	0.017	17
7140	0.018	17.06666667
7200	0.017	17.06666667
7260	0.017	17.06666667

7320	0.017	17
7380	0.017	17
7440	0.017	17
7500	0.018	17.06666667
7560	0.018	17.13333333
7620	0.018	17.2
7680	0.018	17.33333333
7740	0.017	17.4
7800	0.017	17.46666667
7860	0.016	17.46666667
7920	0.017	17.26666667
7980	0.017	17.26666667
8040	0.016	17.13333333
8100	0.016	17.06666667
8160	0.017	17.06666667
8220	0.017	17.06666667
8280	0.018	17.13333333
8340	0.017	17.13333333
8400	0.017	17.06666667
8460	0.017	17
8520	0.017	16.93333333
8580	0.017	16.86666667
8640	0.017	16.86666667
8700	0.017	16.86666667
8760	0.017	16.93333333
8820	0.017	16.93333333
8880	0.018	17
8940	0.017	17.06666667
9000	0.017	17.13333333
9060	0.017	17.13333333
9120	0.017	17.13333333
9180	0.017	17.06666667
9240	0.018	17.13333333
9300	0.017	17.13333333
9360	0.017	17.13333333
9420	0.018	17.2
9480	0.018	17.26666667
9540	0.018	17.33333333
9600	0.018	17.4
9660	0.018	17.46666667
9720	0.018	17.53333333
9780	0.018	17.53333333
9840	0.018	17.6
9900	0.018	17.66666667
9960	0.018	17.73333333
10020	0.018	17.8
10080	0.018	17.86666667

10140	0.018	17.86666667
10200	0.018	17.93333333
10260	0.017	17.93333333
10320	0.017	17.86666667
10380	0.017	17.8
10440	0.017	17.73333333
10500	0.023	18.06666667
10560	0.018	18.06666667
10620	0.018	18.06666667
10680	0.048	20.06666667
10740	0.019	20.13333333
10800	0.018	20.13333333
10860	0.018	20.13333333
10920	0.018	20.13333333
10980	0.018	20.13333333
11040	0.017	20.06666667
11100	0.018	20.06666667
11160	0.019	20.2
11220	0.018	20.26666667
11280	0.023	20.66666667
11340	0.019	20.8
11400	0.019	20.53333333
11460	0.018	20.53333333
11520	0.018	20.53333333
11580	0.022	18.8
11640	0.018	18.73333333
11700	0.018	18.73333333
11760	0.018	18.73333333
11820	0.018	18.73333333
11880	0.018	18.73333333
11940	0.018	18.8
12000	0.017	18.73333333
12060	0.017	18.6
12120	0.018	18.6
12180	0.018	18.26666667
12240	0.018	18.2
12300	0.018	18.13333333
12360	0.017	18.06666667
12420	0.018	18.06666667
12480	0.018	17.8
12540	0.018	17.8
12600	0.018	17.8
12660	0.018	17.8
12720	0.018	17.8
12780	0.018	17.8
12840	0.018	17.8
12900	0.018	17.86666667

12960	0.019	18
13020	0.018	18
13080	0.018	18
13140	0.018	18
13200	0.018	18
13260	0.018	18.06666667
13320	0.018	18.06666667
13380	0.019	18.13333333
13440	0.018	18.13333333
13500	0.018	18.13333333
13560	0.018	18.13333333
13620	0.018	18.13333333
13680	0.018	18.13333333
13740	0.018	18.13333333
13800	0.018	18.13333333
13860	0.018	18.06666667
13920	0.018	18.06666667
13980	0.018	18.06666667
14040	0.018	18.06666667
14100	0.018	18.06666667
14160	0.018	18.06666667
14220	0.018	18.06666667
14280	0.018	18
14340	0.019	18.06666667
14400	0.019	18.13333333
14460	0.019	18.2
14520	0.018	18.2
14580	0.018	18.2
14640	0.018	18.2
14700	0.018	18.2
14760	0.019	18.26666667
14820	0.019	18.33333333
14880	0.017	18.26666667
14940	0.017	18.2
15000	0.017	18.13333333
15060	0.017	18.06666667
15120	0.034	19.13333333
15180	0.017	19.06666667
15240	0.017	18.93333333
15300	0.018	18.86666667
15360	0.017	18.73333333
15420	0.017	18.66666667
15480	0.017	18.6
15540	0.017	18.53333333
15600	0.018	18.53333333
15660	0.018	18.46666667
15720	0.019	18.46666667

15780	0.018	18.53333333
15840	0.018	18.6
15900	0.018	18.66666667
15960	0.018	18.73333333
16020	0.018	17.66666667
16080	0.018	17.73333333
16140	0.018	17.8
16200	0.023	18.13333333
16260	0.02	18.33333333
16320	0.019	18.46666667
16380	0.018	18.53333333
16440	0.018	18.6
16500	0.018	18.6
16560	0.018	18.6
16620	0.018	18.53333333
16680	0.019	18.6
16740	0.019	18.66666667
16800	0.032	19.6
16860	0.02	19.73333333
16920	0.019	19.8
16980	0.019	19.86666667
17040	0.018	19.86666667
17100	0.018	19.53333333
17160	0.018	19.4
17220	0.018	19.33333333
17280	0.018	19.33333333
17340	0.018	19.33333333
17400	0.018	19.33333333
17460	0.018	19.33333333
17520	0.018	19.33333333
17580	0.019	19.33333333
17640	0.018	19.26666667
17700	0.018	18.33333333
17760	0.018	18.2
17820	0.018	18.13333333
17880	0.018	18.06666667
17940	0.019	18.13333333
18000	0.022	18.4
18060	0.02	18.53333333
18120	0.03	19.33333333
18180	0.028	20
18240	0.019	20.06666667
18300	0.018	20.06666667
18360	0.018	20.06666667
18420	0.018	20.06666667
18480	0.019	20.06666667
18540	0.018	20.06666667

18600	0.018	20.06666667
18660	0.018	20.06666667
18720	0.018	20.06666667
18780	0.018	20.06666667
18840	0.018	20
18900	0.018	19.73333333
18960	0.018	19.6
19020	0.018	18.8
19080	0.018	18.13333333
19140	0.018	18.06666667
19200	0.018	18.06666667
19260	0.018	18.06666667
19320	0.018	18.06666667
19380	0.018	18
19440	0.018	18
19500	0.018	18
19560	0.018	18
19620	0.018	18
19680	0.018	18
19740	0.018	18
19800	0.018	18
19860	0.018	18
19920	0.018	18
19980	0.018	18
20040	0.018	18
20100	0.017	17.93333333
20160	0.017	17.86666667
20220	0.017	17.8
20280	0.017	17.73333333
20340	0.017	17.66666667
20400	0.017	17.6
20460	0.017	17.53333333
20520	0.017	17.46666667
20580	0.017	17.4
20640	0.017	17.33333333
20700	0.017	17.26666667
20760	0.017	17.2
20820	0.017	17.13333333
20880	0.017	17.06666667
20940	0.017	17
21000	0.017	17
21060	0.017	17
21120	0.017	17
21180	0.017	17
21240	0.017	17
21300	0.017	17
21360	0.017	17

21420	0.017	17
21480	0.019	17.13333333
21540	0.017	17.13333333
21600	0.02	17.33333333
21660	0.017	17.33333333
21720	0.017	17.33333333
21780	0.018	17.4
21840	0.018	17.46666667
21900	0.017	17.46666667
21960	0.017	17.46666667
22020	0.017	17.46666667
22080	0.017	17.46666667
22140	0.017	17.46666667
22200	0.017	17.46666667
22260	0.017	17.46666667
22320	0.017	17.46666667
22380	0.017	17.33333333
22440	0.017	17.33333333
22500	0.017	17.13333333
22560	0.016	17.06666667
22620	0.016	17
22680	0.016	16.86666667
22740	0.016	16.73333333
22800	0.017	16.73333333
22860	0.017	16.73333333
22920	0.022	17.06666667
22980	0.017	17.06666667
23040	0.019	17.2
23100	0.022	17.53333333
23160	0.017	17.53333333
23220	0.016	17.46666667
23280	0.016	17.4
23340	0.016	17.33333333
23400	0.016	17.26666667
23460	0.017	17.33333333
23520	0.017	17.4
23580	0.02	17.66666667
23640	0.017	17.73333333
23700	0.016	17.66666667
23760	0.016	17.6
23820	0.016	17.2
23880	0.016	17.13333333
23940	0.016	16.93333333
24000	0.016	16.53333333
24060	0.016	16.46666667
24120	0.016	16.46666667
24180	0.016	16.46666667

24240	0.016	16.46666667
24300	0.016	16.46666667
24360	0.016	16.4
24420	0.016	16.33333333
24480	0.036	17.4
24540	0.017	17.4
24600	0.016	17.4
24660	0.016	17.4
24720	0.017	17.46666667
24780	0.023	17.93333333
24840	0.016	17.93333333
24900	0.016	17.93333333
24960	0.016	17.93333333
25020	0.016	17.93333333
25080	0.016	17.93333333
25140	0.016	17.93333333
25200	0.017	18
25260	0.016	18
25320	0.016	18
25380	0.018	16.8
25440	0.017	16.8
25500	0.016	16.8
25560	0.023	17.26666667
25620	0.018	17.33333333
25680	0.016	16.86666667
25740	0.016	16.86666667
25800	0.016	16.86666667
25860	0.016	16.86666667
25920	0.016	16.86666667
25980	0.016	16.86666667
26040	0.016	16.86666667
26100	0.016	16.8
26160	0.016	16.8
26220	0.015	16.73333333
26280	0.016	16.6
26340	0.015	16.46666667
26400	0.016	16.46666667
26460	0.025	16.6
26520	0.018	16.6
26580	0.021	16.93333333
26640	0.016	16.93333333
26700	0.016	16.93333333
26760	0.017	17
26820	0.017	17.06666667
26880	0.016	17.06666667
26940	0.016	17.06666667
27000	0.016	17.06666667

27060	0.016	17.06666667
27120	0.016	17.13333333
27180	0.016	17.13333333
27240	0.016	17.2
27300	0.016	17.2
27360	0.016	16.6
27420	0.016	16.46666667
27480	0.016	16.13333333
27540	0.016	16.13333333
27600	0.016	16.13333333
27660	0.016	16.06666667
27720	0.015	15.93333333
27780	0.016	15.93333333
27840	0.016	15.93333333
27900	0.016	15.93333333
27960	0.016	15.93333333
28020	0.016	15.93333333
28080	0.016	15.93333333
28140	0.02	16.2
28200	0.017	16.26666667
28260	0.018	16.4

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_030
Test Start Time	6:39:11 AM
Test Start Date	7/16/2020
Test Length [D:H:M]	0:07:13
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.011
Mass Minimum [mg/m3]	0.007
Mass Maximum [mg/m3]	0.032
Mass TWA [mg/m3]	0.01
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	433

Max Instant Conc.	Max 15 min TWA Conc.
32	15.13333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.007			
120	0.007			
180	0.007			
240	0.007			
300	0.007			
360	0.007			
420	0.008			
480	0.007			
540	0.007			
600	0.007			
660	0.007			
720	0.007			
780	0.007			
840	0.007			
900	0.008			7.133333333
960	0.008			7.2
1020	0.008			7.266666667
1080	0.007			7.266666667
1140	0.008			7.333333333
1200	0.007			7.333333333
1260	0.007			7.333333333
1320	0.007			7.266666667
1380	0.007			7.266666667
1440	0.007			7.266666667
1500	0.007			7.266666667
1560	0.007			7.266666667
1620	0.007			7.266666667

1680	0.007	7.266666667
1740	0.007	7.266666667
1800	0.007	7.2
1860	0.007	7.133333333
1920	0.007	7.066666667
1980	0.007	7.066666667
2040	0.007	7
2100	0.007	7
2160	0.007	7
2220	0.007	7
2280	0.007	7
2340	0.007	7
2400	0.007	7
2460	0.008	7.066666667
2520	0.008	7.133333333
2580	0.008	7.2
2640	0.008	7.266666667
2700	0.008	7.333333333
2760	0.008	7.4
2820	0.008	7.466666667
2880	0.008	7.533333333
2940	0.008	7.6
3000	0.008	7.666666667
3060	0.008	7.733333333
3120	0.008	7.8
3180	0.008	7.866666667
3240	0.008	7.933333333
3300	0.008	8
3360	0.008	8
3420	0.008	8
3480	0.008	8
3540	0.013	8.333333333
3600	0.016	8.866666667
3660	0.009	8.933333333
3720	0.009	9
3780	0.009	9.066666667
3840	0.009	9.133333333
3900	0.009	9.2
3960	0.009	9.266666667
4020	0.009	9.333333333
4080	0.009	9.4
4140	0.009	9.466666667
4200	0.009	9.533333333
4260	0.01	9.666666667
4320	0.009	9.733333333
4380	0.009	9.8
4440	0.009	9.533333333

4500	0.011	9.2
4560	0.009	9.2
4620	0.009	9.2
4680	0.009	9.2
4740	0.009	9.2
4800	0.009	9.2
4860	0.009	9.2
4920	0.009	9.2
4980	0.009	9.2
5040	0.009	9.2
5100	0.01	9.266666667
5160	0.01	9.266666667
5220	0.01	9.333333333
5280	0.01	9.4
5340	0.01	9.466666667
5400	0.011	9.466666667
5460	0.01	9.533333333
5520	0.01	9.6
5580	0.01	9.666666667
5640	0.01	9.733333333
5700	0.01	9.8
5760	0.01	9.866666667
5820	0.009	9.866666667
5880	0.01	9.933333333
5940	0.009	9.933333333
6000	0.01	9.933333333
6060	0.01	9.933333333
6120	0.009	9.866666667
6180	0.009	9.8
6240	0.009	9.733333333
6300	0.009	9.6
6360	0.009	9.533333333
6420	0.009	9.466666667
6480	0.009	9.4
6540	0.009	9.333333333
6600	0.009	9.266666667
6660	0.009	9.2
6720	0.009	9.2
6780	0.009	9.133333333
6840	0.01	9.2
6900	0.027	10.33333333
6960	0.009	10.26666667
7020	0.011	10.4
7080	0.012	10.6
7140	0.009	10.6
7200	0.01	10.66666667
7260	0.01	10.73333333

7320	0.01	10.8
7380	0.009	10.8
7440	0.009	10.8
7500	0.009	10.8
7560	0.009	10.8
7620	0.009	10.8
7680	0.009	10.8
7740	0.009	10.73333333
7800	0.009	9.533333333
7860	0.009	9.533333333
7920	0.009	9.4
7980	0.009	9.2
8040	0.009	9.2
8100	0.009	9.133333333
8160	0.009	9.066666667
8220	0.009	9
8280	0.009	9
8340	0.009	9
8400	0.009	9
8460	0.009	9
8520	0.01	9.066666667
8580	0.01	9.133333333
8640	0.01	9.2
8700	0.01	9.266666667
8760	0.01	9.333333333
8820	0.01	9.4
8880	0.01	9.466666667
8940	0.01	9.533333333
9000	0.01	9.6
9060	0.01	9.666666667
9120	0.01	9.733333333
9180	0.01	9.8
9240	0.01	9.866666667
9300	0.01	9.933333333
9360	0.009	9.933333333
9420	0.01	9.933333333
9480	0.01	9.933333333
9540	0.01	9.933333333
9600	0.01	9.933333333
9660	0.01	9.933333333
9720	0.01	9.933333333
9780	0.01	9.933333333
9840	0.01	9.933333333
9900	0.01	9.933333333
9960	0.01	9.933333333
10020	0.01	9.933333333
10080	0.01	9.933333333

10140	0.01	9.933333333
10200	0.01	9.933333333
10260	0.01	10
10320	0.01	10
10380	0.01	10
10440	0.01	10
10500	0.01	10
10560	0.01	10
10620	0.01	10
10680	0.01	10
10740	0.009	9.933333333
10800	0.01	9.933333333
10860	0.01	9.933333333
10920	0.01	9.933333333
10980	0.01	9.933333333
11040	0.01	9.933333333
11100	0.01	9.933333333
11160	0.01	9.933333333
11220	0.01	9.933333333
11280	0.01	9.933333333
11340	0.01	9.933333333
11400	0.01	9.933333333
11460	0.01	9.933333333
11520	0.01	9.933333333
11580	0.011	10
11640	0.011	10.13333333
11700	0.011	10.2
11760	0.011	10.26666667
11820	0.011	10.33333333
11880	0.011	10.4
11940	0.011	10.46666667
12000	0.012	10.6
12060	0.012	10.73333333
12120	0.011	10.8
12180	0.01	10.8
12240	0.014	11.06666667
12300	0.012	11.2
12360	0.01	11.2
12420	0.01	11.2
12480	0.011	11.2
12540	0.011	11.2
12600	0.011	11.2
12660	0.01	11.13333333
12720	0.01	11.06666667
12780	0.011	11.06666667
12840	0.011	11.06666667
12900	0.011	11

12960	0.011	10.93333333
13020	0.011	10.93333333
13080	0.011	11
13140	0.011	10.8
13200	0.012	10.8
13260	0.011	10.86666667
13320	0.015	11.2
13380	0.012	11.26666667
13440	0.012	11.33333333
13500	0.012	11.4
13560	0.012	11.53333333
13620	0.012	11.66666667
13680	0.012	11.73333333
13740	0.012	11.8
13800	0.012	11.86666667
13860	0.011	11.86666667
13920	0.011	11.86666667
13980	0.011	11.86666667
14040	0.011	11.86666667
14100	0.011	11.8
14160	0.011	11.8
14220	0.011	11.53333333
14280	0.011	11.46666667
14340	0.011	11.4
14400	0.012	11.4
14460	0.012	11.4
14520	0.012	11.4
14580	0.012	11.4
14640	0.012	11.4
14700	0.012	11.4
14760	0.012	11.46666667
14820	0.012	11.53333333
14880	0.012	11.6
14940	0.012	11.66666667
15000	0.012	11.73333333
15060	0.014	11.93333333
15120	0.032	13.33333333
15180	0.012	13.4
15240	0.012	13.46666667
15300	0.012	13.46666667
15360	0.012	13.46666667
15420	0.011	13.4
15480	0.012	13.4
15540	0.011	13.33333333
15600	0.012	13.33333333
15660	0.012	13.33333333
15720	0.011	13.26666667

15780	0.011	13.2
15840	0.011	13.13333333
15900	0.013	13.2
15960	0.014	13.2
16020	0.012	11.86666667
16080	0.012	11.86666667
16140	0.011	11.8
16200	0.011	11.73333333
16260	0.011	11.66666667
16320	0.011	11.66666667
16380	0.011	11.6
16440	0.012	11.66666667
16500	0.012	11.66666667
16560	0.011	11.6
16620	0.011	11.6
16680	0.011	11.6
16740	0.012	11.66666667
16800	0.011	11.53333333
16860	0.012	11.4
16920	0.011	11.33333333
16980	0.012	11.33333333
17040	0.012	11.4
17100	0.012	11.46666667
17160	0.012	11.53333333
17220	0.012	11.6
17280	0.012	11.66666667
17340	0.012	11.66666667
17400	0.012	11.66666667
17460	0.012	11.73333333
17520	0.012	11.8
17580	0.012	11.86666667
17640	0.012	11.86666667
17700	0.012	11.93333333
17760	0.012	11.93333333
17820	0.012	12
17880	0.012	12
17940	0.012	12
18000	0.011	11.93333333
18060	0.012	11.93333333
18120	0.011	11.86666667
18180	0.012	11.86666667
18240	0.012	11.86666667
18300	0.012	11.86666667
18360	0.012	11.86666667
18420	0.012	11.86666667
18480	0.012	11.86666667
18540	0.012	11.86666667

18600	0.012	11.86666667
18660	0.011	11.8
18720	0.012	11.8
18780	0.012	11.8
18840	0.012	11.8
18900	0.012	11.86666667
18960	0.012	11.86666667
19020	0.012	11.93333333
19080	0.012	11.93333333
19140	0.012	11.93333333
19200	0.012	11.93333333
19260	0.013	12
19320	0.012	12
19380	0.012	12
19440	0.012	12
19500	0.012	12
19560	0.012	12.06666667
19620	0.012	12.06666667
19680	0.012	12.06666667
19740	0.012	12.06666667
19800	0.012	12.06666667
19860	0.012	12.06666667
19920	0.012	12.06666667
19980	0.012	12.06666667
20040	0.012	12.06666667
20100	0.012	12.06666667
20160	0.013	12.06666667
20220	0.013	12.13333333
20280	0.013	12.2
20340	0.012	12.2
20400	0.013	12.26666667
20460	0.012	12.26666667
20520	0.013	12.33333333
20580	0.013	12.4
20640	0.013	12.46666667
20700	0.012	12.46666667
20760	0.012	12.46666667
20820	0.012	12.46666667
20880	0.012	12.46666667
20940	0.013	12.53333333
21000	0.012	12.53333333
21060	0.015	12.66666667
21120	0.012	12.6
21180	0.012	12.53333333
21240	0.012	12.53333333
21300	0.012	12.46666667
21360	0.015	12.66666667

21420	0.013	12.66666667
21480	0.013	12.66666667
21540	0.013	12.66666667
21600	0.013	12.73333333
21660	0.012	12.73333333
21720	0.013	12.8
21780	0.013	12.86666667
21840	0.013	12.86666667
21900	0.015	13.06666667
21960	0.013	12.93333333
22020	0.013	13
22080	0.013	13.06666667
22140	0.023	13.8
22200	0.015	14
22260	0.013	13.86666667
22320	0.014	13.93333333
22380	0.016	14.13333333
22440	0.013	14.13333333
22500	0.013	14.13333333
22560	0.014	14.26666667
22620	0.013	14.26666667
22680	0.013	14.26666667
22740	0.013	14.26666667
22800	0.013	14.13333333
22860	0.014	14.2
22920	0.013	14.2
22980	0.014	14.26666667
23040	0.013	13.6
23100	0.014	13.53333333
23160	0.02	14
23220	0.015	14.06666667
23280	0.014	13.93333333
23340	0.013	13.93333333
23400	0.014	14
23460	0.014	14
23520	0.013	14
23580	0.014	14.06666667
23640	0.013	14.06666667
23700	0.013	14.06666667
23760	0.013	14
23820	0.014	14.06666667
23880	0.014	14.06666667
23940	0.014	14.13333333
24000	0.014	14.13333333
24060	0.014	13.73333333
24120	0.014	13.66666667
24180	0.013	13.6

24240	0.013	13.6
24300	0.014	13.6
24360	0.013	13.53333333
24420	0.014	13.6
24480	0.013	13.53333333
24540	0.013	13.53333333
24600	0.014	13.6
24660	0.014	13.66666667
24720	0.013	13.6
24780	0.014	13.6
24840	0.014	13.6
24900	0.014	13.6
24960	0.013	13.53333333
25020	0.014	13.53333333
25080	0.014	13.6
25140	0.019	14
25200	0.016	14.13333333
25260	0.017	14.4
25320	0.016	14.53333333
25380	0.016	14.73333333
25440	0.015	14.86666667
25500	0.015	14.93333333
25560	0.014	14.93333333
25620	0.015	15.06666667
25680	0.015	15.13333333
25740	0.013	15.06666667
25800	0.013	15
25860	0.013	15
25920	0.013	14.93333333
25980	0.013	14.86666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_031
Test Start Time	6:36:07 AM
Test Start Date	7/17/2020
Test Length [D:H:M]	0:07:00
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.012
Mass Minimum [mg/m3]	0.008
Mass Maximum [mg/m3]	0.018
Mass TWA [mg/m3]	0.011
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	420

Max Instant Conc.	Max 15 min TWA Conc.
18	14.46666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.008			
120	0.008			
180	0.009			
240	0.009			
300	0.009			
360	0.009			
420	0.01			
480	0.009			
540	0.009			
600	0.01			
660	0.009			
720	0.013			
780	0.013			
840	0.01			
900	0.01			9.666666667
960	0.01			9.8
1020	0.01			9.933333333
1080	0.01			10
1140	0.01			10.06666667
1200	0.01			10.13333333
1260	0.009			10.13333333
1320	0.009			10.06666667
1380	0.009			10.06666667
1440	0.01			10.13333333
1500	0.01			10.13333333
1560	0.01			10.2
1620	0.01			10

1680	0.011	9.866666667
1740	0.011	9.933333333
1800	0.01	9.933333333
1860	0.011	10
1920	0.01	10
1980	0.01	10
2040	0.01	10
2100	0.01	10
2160	0.01	10.06666667
2220	0.01	10.13333333
2280	0.011	10.26666667
2340	0.011	10.33333333
2400	0.011	10.4
2460	0.011	10.46666667
2520	0.011	10.53333333
2580	0.011	10.53333333
2640	0.011	10.53333333
2700	0.011	10.6
2760	0.01	10.53333333
2820	0.01	10.53333333
2880	0.01	10.53333333
2940	0.01	10.53333333
3000	0.01	10.53333333
3060	0.01	10.53333333
3120	0.01	10.53333333
3180	0.01	10.46666667
3240	0.01	10.4
3300	0.01	10.33333333
3360	0.01	10.26666667
3420	0.01	10.2
3480	0.011	10.2
3540	0.011	10.2
3600	0.011	10.2
3660	0.011	10.26666667
3720	0.011	10.33333333
3780	0.011	10.4
3840	0.011	10.46666667
3900	0.011	10.53333333
3960	0.011	10.6
4020	0.011	10.66666667
4080	0.01	10.66666667
4140	0.011	10.73333333
4200	0.01	10.73333333
4260	0.01	10.73333333
4320	0.01	10.73333333
4380	0.01	10.66666667
4440	0.01	10.6

4500	0.01	10.53333333
4560	0.01	10.46666667
4620	0.01	10.4
4680	0.011	10.4
4740	0.01	10.33333333
4800	0.01	10.26666667
4860	0.011	10.26666667
4920	0.011	10.26666667
4980	0.011	10.33333333
5040	0.011	10.33333333
5100	0.011	10.4
5160	0.011	10.46666667
5220	0.011	10.53333333
5280	0.011	10.6
5340	0.011	10.66666667
5400	0.011	10.73333333
5460	0.011	10.8
5520	0.011	10.86666667
5580	0.011	10.86666667
5640	0.011	10.93333333
5700	0.011	11
5760	0.011	11
5820	0.011	11
5880	0.011	11
5940	0.011	11
6000	0.011	11
6060	0.011	11
6120	0.011	11
6180	0.011	11
6240	0.011	11
6300	0.011	11
6360	0.011	11
6420	0.011	11
6480	0.011	11
6540	0.011	11
6600	0.011	11
6660	0.011	11
6720	0.011	11
6780	0.011	11
6840	0.01	10.93333333
6900	0.011	10.93333333
6960	0.011	10.93333333
7020	0.011	10.93333333
7080	0.011	10.93333333
7140	0.011	10.93333333
7200	0.011	10.93333333
7260	0.01	10.86666667

7320	0.01	10.8
7380	0.011	10.8
7440	0.011	10.8
7500	0.011	10.8
7560	0.011	10.8
7620	0.011	10.8
7680	0.011	10.8
7740	0.011	10.86666667
7800	0.011	10.86666667
7860	0.011	10.86666667
7920	0.011	10.86666667
7980	0.011	10.86666667
8040	0.011	10.86666667
8100	0.011	10.86666667
8160	0.011	10.93333333
8220	0.011	11
8280	0.011	11
8340	0.011	11
8400	0.012	11.06666667
8460	0.011	11.06666667
8520	0.012	11.13333333
8580	0.012	11.2
8640	0.012	11.26666667
8700	0.012	11.33333333
8760	0.012	11.4
8820	0.012	11.46666667
8880	0.012	11.53333333
8940	0.012	11.6
9000	0.012	11.66666667
9060	0.012	11.73333333
9120	0.012	11.8
9180	0.012	11.86666667
9240	0.012	11.93333333
9300	0.012	11.93333333
9360	0.012	12
9420	0.012	12
9480	0.012	12
9540	0.012	12
9600	0.012	12
9660	0.012	12
9720	0.013	12.06666667
9780	0.012	12.06666667
9840	0.012	12.06666667
9900	0.012	12.06666667
9960	0.012	12.06666667
10020	0.012	12.06666667
10080	0.012	12.06666667

10140	0.012	12.06666667
10200	0.012	12.06666667
10260	0.012	12.06666667
10320	0.012	12.06666667
10380	0.012	12.06666667
10440	0.012	12.06666667
10500	0.012	12.06666667
10560	0.013	12.13333333
10620	0.012	12.06666667
10680	0.013	12.13333333
10740	0.013	12.2
10800	0.013	12.26666667
10860	0.013	12.33333333
10920	0.013	12.4
10980	0.013	12.46666667
11040	0.013	12.53333333
11100	0.013	12.6
11160	0.013	12.66666667
11220	0.013	12.73333333
11280	0.012	12.73333333
11340	0.013	12.8
11400	0.012	12.8
11460	0.012	12.73333333
11520	0.012	12.73333333
11580	0.013	12.73333333
11640	0.012	12.66666667
11700	0.012	12.6
11760	0.012	12.53333333
11820	0.012	12.46666667
11880	0.012	12.4
11940	0.012	12.33333333
12000	0.012	12.26666667
12060	0.012	12.2
12120	0.012	12.13333333
12180	0.012	12.13333333
12240	0.012	12.06666667
12300	0.012	12.06666667
12360	0.012	12.06666667
12420	0.012	12.06666667
12480	0.012	12
12540	0.012	12
12600	0.012	12
12660	0.012	12
12720	0.012	12
12780	0.012	12
12840	0.012	12
12900	0.012	12

12960	0.012	12
13020	0.012	12
13080	0.012	12
13140	0.012	12
13200	0.012	12
13260	0.012	12
13320	0.012	12
13380	0.012	12
13440	0.012	12
13500	0.012	12
13560	0.012	12
13620	0.012	12
13680	0.012	12
13740	0.012	12
13800	0.012	12
13860	0.012	12
13920	0.013	12.06666667
13980	0.012	12.06666667
14040	0.012	12.06666667
14100	0.013	12.13333333
14160	0.012	12.13333333
14220	0.012	12.13333333
14280	0.013	12.2
14340	0.013	12.26666667
14400	0.013	12.33333333
14460	0.013	12.4
14520	0.013	12.46666667
14580	0.013	12.53333333
14640	0.013	12.6
14700	0.013	12.66666667
14760	0.013	12.73333333
14820	0.013	12.73333333
14880	0.012	12.73333333
14940	0.013	12.8
15000	0.013	12.8
15060	0.013	12.86666667
15120	0.013	12.93333333
15180	0.013	12.93333333
15240	0.013	12.93333333
15300	0.013	12.93333333
15360	0.012	12.86666667
15420	0.013	12.86666667
15480	0.012	12.8
15540	0.013	12.8
15600	0.012	12.73333333
15660	0.012	12.66666667
15720	0.013	12.66666667

15780	0.013	12.73333333
15840	0.013	12.73333333
15900	0.012	12.66666667
15960	0.012	12.6
16020	0.013	12.6
16080	0.012	12.53333333
16140	0.013	12.53333333
16200	0.013	12.53333333
16260	0.012	12.53333333
16320	0.012	12.46666667
16380	0.012	12.46666667
16440	0.012	12.4
16500	0.012	12.4
16560	0.012	12.4
16620	0.012	12.33333333
16680	0.012	12.26666667
16740	0.012	12.2
16800	0.012	12.2
16860	0.012	12.2
16920	0.012	12.13333333
16980	0.013	12.2
17040	0.012	12.13333333
17100	0.012	12.06666667
17160	0.013	12.13333333
17220	0.013	12.2
17280	0.013	12.26666667
17340	0.013	12.33333333
17400	0.013	12.4
17460	0.013	12.46666667
17520	0.015	12.66666667
17580	0.015	12.86666667
17640	0.013	12.93333333
17700	0.014	13.06666667
17760	0.013	13.13333333
17820	0.013	13.2
17880	0.013	13.2
17940	0.013	13.26666667
18000	0.013	13.33333333
18060	0.014	13.4
18120	0.013	13.4
18180	0.013	13.4
18240	0.013	13.4
18300	0.014	13.46666667
18360	0.014	13.53333333
18420	0.013	13.4
18480	0.013	13.26666667
18540	0.013	13.26666667

18600	0.013	13.2
18660	0.014	13.26666667
18720	0.014	13.33333333
18780	0.014	13.4
18840	0.014	13.46666667
18900	0.014	13.53333333
18960	0.014	13.53333333
19020	0.014	13.6
19080	0.015	13.73333333
19140	0.015	13.86666667
19200	0.013	13.8
19260	0.014	13.8
19320	0.014	13.86666667
19380	0.014	13.93333333
19440	0.014	14
19500	0.014	14.06666667
19560	0.014	14.06666667
19620	0.016	14.2
19680	0.014	14.2
19740	0.014	14.2
19800	0.014	14.2
19860	0.015	14.26666667
19920	0.014	14.26666667
19980	0.016	14.33333333
20040	0.015	14.33333333
20100	0.014	14.4
20160	0.014	14.4
20220	0.014	14.4
20280	0.014	14.4
20340	0.015	14.46666667
20400	0.014	14.46666667
20460	0.013	14.4
20520	0.015	14.33333333
20580	0.013	14.26666667
20640	0.014	14.26666667
20700	0.014	14.26666667
20760	0.017	14.4
20820	0.013	14.33333333
20880	0.014	14.2
20940	0.016	14.26666667
21000	0.013	14.2
21060	0.013	14.13333333
21120	0.014	14.13333333
21180	0.014	14.13333333
21240	0.018	14.33333333
21300	0.015	14.4
21360	0.014	14.46666667

21420	0.013	14.33333333
21480	0.013	14.33333333
21540	0.014	14.33333333
21600	0.013	14.26666667
21660	0.013	14
21720	0.013	14
21780	0.013	13.93333333
21840	0.013	13.73333333
21900	0.014	13.8
21960	0.014	13.86666667
22020	0.013	13.8
22080	0.014	13.8
22140	0.014	13.53333333
22200	0.013	13.4
22260	0.012	13.26666667
22320	0.014	13.33333333
22380	0.016	13.53333333
22440	0.015	13.6
22500	0.013	13.6
22560	0.013	13.6
22620	0.014	13.66666667
22680	0.014	13.73333333
22740	0.012	13.66666667
22800	0.012	13.53333333
22860	0.014	13.53333333
22920	0.014	13.6
22980	0.015	13.66666667
23040	0.013	13.6
23100	0.012	13.53333333
23160	0.015	13.73333333
23220	0.012	13.6
23280	0.013	13.4
23340	0.013	13.26666667
23400	0.013	13.26666667
23460	0.014	13.33333333
23520	0.013	13.26666667
23580	0.012	13.13333333
23640	0.012	13.13333333
23700	0.014	13.26666667
23760	0.012	13.13333333
23820	0.011	12.93333333
23880	0.012	12.73333333
23940	0.012	12.66666667
24000	0.012	12.66666667
24060	0.012	12.46666667
24120	0.012	12.46666667
24180	0.014	12.53333333

24240	0.014	12.6
24300	0.012	12.53333333
24360	0.013	12.46666667
24420	0.013	12.46666667
24480	0.013	12.53333333
24540	0.012	12.53333333
24600	0.013	12.46666667
24660	0.012	12.46666667
24720	0.013	12.6
24780	0.012	12.6
24840	0.013	12.66666667
24900	0.013	12.73333333
24960	0.012	12.73333333
25020	0.012	12.73333333
25080	0.016	12.86666667
25140	0.012	12.73333333
25200	0.012	12.73333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_032
Test Start Time	6:40:01 AM
Test Start Date	7/20/2020
Test Length [D:H:M]	0:07:50
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.038
Mass Minimum [mg/m3]	0.021
Mass Maximum [mg/m3]	0.093
Mass TWA [mg/m3]	0.037
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	470

Max Instant Conc.	Max 15 min TWA Conc.
21	49

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.044			
120	0.047			
180	0.048			
240	0.048			
300	0.047			
360	0.047			
420	0.047			
480	0.048			
540	0.048			
600	0.051			
660	0.054			
720	0.049			
780	0.048			
840	0.046			48
900	0.046			47.86666667
960	0.045			47.93333333
1020	0.045			47.8
1080	0.047			47.73333333
1140	0.048			47.73333333
1200	0.048			47.8
1260	0.048			47.86666667
1320	0.049			48
1380	0.048			48
1440	0.049			48.06666667
1500	0.049			47.93333333
1560	0.048			47.53333333
1620	0.049			47.53333333

1680	0.048	47.53333333
1740	0.048	47.66666667
1800	0.047	47.73333333
1860	0.047	47.86666667
1920	0.047	48
1980	0.046	47.93333333
2040	0.044	47.66666667
2100	0.046	47.53333333
2160	0.046	47.4
2220	0.046	47.2
2280	0.045	47
2340	0.044	46.66666667
2400	0.043	46.26666667
2460	0.044	46
2520	0.043	45.6
2580	0.045	45.4
2640	0.045	45.2
2700	0.045	45.06666667
2760	0.045	44.93333333
2820	0.044	44.73333333
2880	0.048	44.86666667
2940	0.049	45.2
3000	0.048	45.33333333
3060	0.048	45.46666667
3120	0.049	45.66666667
3180	0.049	45.93333333
3240	0.049	46.26666667
3300	0.049	46.66666667
3360	0.05	47.06666667
3420	0.049	47.46666667
3480	0.049	47.73333333
3540	0.049	48
3600	0.05	48.33333333
3660	0.049	48.6
3720	0.049	48.93333333
3780	0.049	49
3840	0.049	49
3900	0.048	49
3960	0.048	49
4020	0.048	48.93333333
4080	0.048	48.86666667
4140	0.049	48.86666667
4200	0.05	48.93333333
4260	0.048	48.8
4320	0.047	48.66666667
4380	0.048	48.6
4440	0.047	48.46666667

4500	0.046	48.2
4560	0.046	48
4620	0.047	47.86666667
4680	0.047	47.73333333
4740	0.048	47.66666667
4800	0.047	47.6
4860	0.047	47.53333333
4920	0.048	47.53333333
4980	0.048	47.53333333
5040	0.048	47.46666667
5100	0.048	47.33333333
5160	0.047	47.26666667
5220	0.048	47.33333333
5280	0.051	47.53333333
5340	0.048	47.6
5400	0.049	47.8
5460	0.048	47.93333333
5520	0.048	48
5580	0.048	48.06666667
5640	0.048	48.06666667
5700	0.052	48.4
5760	0.048	48.46666667
5820	0.049	48.53333333
5880	0.047	48.46666667
5940	0.048	48.46666667
6000	0.048	48.46666667
6060	0.048	48.53333333
6120	0.048	48.53333333
6180	0.048	48.33333333
6240	0.048	48.33333333
6300	0.048	48.26666667
6360	0.047	48.2
6420	0.047	48.13333333
6480	0.047	48.06666667
6540	0.048	48.06666667
6600	0.047	47.73333333
6660	0.047	47.66666667
6720	0.048	47.6
6780	0.048	47.66666667
6840	0.048	47.66666667
6900	0.047	47.6
6960	0.048	47.6
7020	0.049	47.66666667
7080	0.047	47.6
7140	0.048	47.6
7200	0.048	47.6
7260	0.048	47.66666667

7320	0.048	47.73333333
7380	0.047	47.73333333
7440	0.048	47.73333333
7500	0.048	47.8
7560	0.047	47.8
7620	0.047	47.73333333
7680	0.048	47.73333333
7740	0.048	47.73333333
7800	0.048	47.8
7860	0.048	47.8
7920	0.048	47.73333333
7980	0.048	47.8
8040	0.048	47.8
8100	0.049	47.86666667
8160	0.049	47.93333333
8220	0.048	47.93333333
8280	0.049	48.06666667
8340	0.048	48.06666667
8400	0.048	48.06666667
8460	0.048	48.13333333
8520	0.049	48.26666667
8580	0.049	48.33333333
8640	0.048	48.33333333
8700	0.048	48.33333333
8760	0.048	48.33333333
8820	0.048	48.33333333
8880	0.047	48.26666667
8940	0.047	48.2
9000	0.048	48.13333333
9060	0.047	48
9120	0.047	47.93333333
9180	0.048	47.86666667
9240	0.047	47.8
9300	0.047	47.73333333
9360	0.049	47.8
9420	0.047	47.66666667
9480	0.047	47.53333333
9540	0.047	47.46666667
9600	0.047	47.4
9660	0.047	47.33333333
9720	0.047	47.26666667
9780	0.047	47.26666667
9840	0.047	47.26666667
9900	0.047	47.2
9960	0.05	47.4
10020	0.048	47.46666667
10080	0.046	47.33333333

10140	0.048	47.4
10200	0.047	47.4
10260	0.047	47.26666667
10320	0.047	47.26666667
10380	0.047	47.26666667
10440	0.047	47.26666667
10500	0.047	47.26666667
10560	0.046	47.2
10620	0.046	47.13333333
10680	0.046	47.06666667
10740	0.047	47.06666667
10800	0.046	47
10860	0.048	46.86666667
10920	0.05	47
10980	0.048	47.13333333
11040	0.047	47.06666667
11100	0.049	47.2
11160	0.047	47.2
11220	0.047	47.2
11280	0.051	47.46666667
11340	0.048	47.53333333
11400	0.048	47.6
11460	0.046	47.6
11520	0.046	47.6
11580	0.046	47.6
11640	0.046	47.53333333
11700	0.047	47.6
11760	0.051	47.8
11820	0.046	47.53333333
11880	0.047	47.46666667
11940	0.046	47.4
12000	0.048	47.33333333
12060	0.046	47.26666667
12120	0.047	47.26666667
12180	0.045	46.86666667
12240	0.045	46.66666667
12300	0.046	46.53333333
12360	0.046	46.53333333
12420	0.047	46.6
12480	0.049	46.8
12540	0.045	46.73333333
12600	0.045	46.6
12660	0.046	46.26666667
12720	0.045	46.2
12780	0.049	46.33333333
12840	0.046	46.33333333
12900	0.046	46.2

12960	0.045	46.13333333
13020	0.047	46.13333333
13080	0.046	46.2
13140	0.047	46.33333333
13200	0.044	46.2
13260	0.044	46.06666667
13320	0.044	45.86666667
13380	0.049	45.86666667
13440	0.045	45.86666667
13500	0.045	45.86666667
13560	0.044	45.73333333
13620	0.043	45.6
13680	0.043	45.2
13740	0.043	45
13800	0.045	44.93333333
13860	0.042	44.73333333
13920	0.043	44.46666667
13980	0.048	44.6
14040	0.049	44.73333333
14100	0.04	44.46666667
14160	0.039	44.13333333
14220	0.04	43.86666667
14280	0.039	43.2
14340	0.04	42.86666667
14400	0.039	42.46666667
14460	0.038	42.06666667
14520	0.038	41.73333333
14580	0.039	41.46666667
14640	0.046	41.66666667
14700	0.042	41.46666667
14760	0.037	41.13333333
14820	0.039	40.86666667
14880	0.038	40.2
14940	0.037	39.4
15000	0.037	39.2
15060	0.037	39.06666667
15120	0.036	38.8
15180	0.036	38.6
15240	0.036	38.33333333
15300	0.035	38.06666667
15360	0.035	37.86666667
15420	0.036	37.73333333
15480	0.036	37.53333333
15540	0.036	36.86666667
15600	0.036	36.46666667
15660	0.036	36.4
15720	0.036	36.2

15780	0.035	36
15840	0.035	35.86666667
15900	0.035	35.73333333
15960	0.035	35.6
16020	0.034	35.46666667
16080	0.034	35.33333333
16140	0.034	35.2
16200	0.033	35.06666667
16260	0.033	34.93333333
16320	0.031	34.6
16380	0.048	35.4
16440	0.047	36.13333333
16500	0.031	35.8
16560	0.031	35.46666667
16620	0.03	35.06666667
16680	0.03	34.73333333
16740	0.032	34.53333333
16800	0.036	34.6
16860	0.032	34.4
16920	0.033	34.33333333
16980	0.029	34
17040	0.029	33.66666667
17100	0.029	33.4
17160	0.029	33.13333333
17220	0.029	33
17280	0.028	31.66666667
17340	0.032	30.66666667
17400	0.028	30.46666667
17460	0.027	30.2
17520	0.026	29.93333333
17580	0.027	29.73333333
17640	0.026	29.33333333
17700	0.029	28.86666667
17760	0.026	28.46666667
17820	0.025	27.93333333
17880	0.03	28
17940	0.028	27.93333333
18000	0.027	27.8
18060	0.026	27.6
18120	0.029	27.6
18180	0.033	27.93333333
18240	0.027	27.6
18300	0.028	27.6
18360	0.026	27.53333333
18420	0.026	27.53333333
18480	0.027	27.53333333
18540	0.026	27.53333333

18600	0.024	27.2
18660	0.025	27.13333333
18720	0.027	27.26666667
18780	0.024	26.86666667
18840	0.025	26.66666667
18900	0.024	26.46666667
18960	0.024	26.33333333
19020	0.023	25.93333333
19080	0.022	25.2
19140	0.026	25.13333333
19200	0.026	25
19260	0.023	24.8
19320	0.022	24.53333333
19380	0.023	24.26666667
19440	0.025	24.2
19500	0.023	24.13333333
19560	0.023	24
19620	0.022	23.66666667
19680	0.022	23.53333333
19740	0.023	23.4
19800	0.025	23.46666667
19860	0.022	23.33333333
19920	0.023	23.33333333
19980	0.05	25.2
20040	0.024	25.06666667
20100	0.023	24.86666667
20160	0.069	27.93333333
20220	0.028	28.33333333
20280	0.027	28.6
20340	0.033	29.13333333
20400	0.046	30.66666667
20460	0.023	30.66666667
20520	0.038	31.73333333
20580	0.04	32.93333333
20640	0.022	32.86666667
20700	0.021	32.6
20760	0.023	32.66666667
20820	0.023	32.66666667
20880	0.022	30.8
20940	0.023	30.73333333
21000	0.023	30.73333333
21060	0.031	28.2
21120	0.074	31.26666667
21180	0.041	32.2
21240	0.037	32.46666667
21300	0.024	31
21360	0.025	31.13333333

21420	0.024	30.2
21480	0.023	29.06666667
21540	0.024	29.2
21600	0.093	34
21660	0.023	34
21720	0.023	34
21780	0.023	34.06666667
21840	0.024	34.13333333
21900	0.024	34.2
21960	0.041	34.86666667
22020	0.023	31.46666667
22080	0.024	30.33333333
22140	0.023	29.4
22200	0.024	29.4
22260	0.025	29.4
22320	0.023	29.33333333
22380	0.024	29.4
22440	0.023	29.33333333
22500	0.024	24.73333333
22560	0.024	24.8
22620	0.023	24.8
22680	0.023	24.8
22740	0.024	24.8
22800	0.024	24.8
22860	0.023	23.6
22920	0.025	23.73333333
22980	0.025	23.8
23040	0.025	23.93333333
23100	0.026	24.06666667
23160	0.025	24.06666667
23220	0.026	24.26666667
23280	0.028	24.53333333
23340	0.026	24.73333333
23400	0.024	24.73333333
23460	0.023	24.66666667
23520	0.023	24.66666667
23580	0.027	24.93333333
23640	0.027	25.13333333
23700	0.023	25.06666667
23760	0.029	25.46666667
23820	0.024	25.4
23880	0.023	25.26666667
23940	0.025	25.26666667
24000	0.032	25.66666667
24060	0.027	25.8
24120	0.032	26.2
24180	0.026	26.06666667

24240	0.025	26
24300	0.023	25.93333333
24360	0.024	26
24420	0.046	27.53333333
24480	0.024	27.33333333
24540	0.024	27.13333333
24600	0.023	27.13333333
24660	0.039	27.8
24720	0.023	27.73333333
24780	0.023	27.73333333
24840	0.023	27.6
24900	0.024	27.06666667
24960	0.025	26.93333333
25020	0.023	26.33333333
25080	0.023	26.13333333
25140	0.023	26
25200	0.022	25.93333333
25260	0.022	25.8
25320	0.023	24.26666667
25380	0.023	24.2
25440	0.042	25.4
25500	0.027	25.66666667
25560	0.028	24.93333333
25620	0.029	25.33333333
25680	0.026	25.53333333
25740	0.027	25.8
25800	0.031	26.26666667
25860	0.029	26.53333333
25920	0.024	26.6
25980	0.026	26.8
26040	0.024	26.86666667
26100	0.023	26.93333333
26160	0.031	27.53333333
26220	0.053	29.53333333
26280	0.027	29.8
26340	0.029	28.93333333
26400	0.038	29.66666667
26460	0.024	29.4
26520	0.028	29.33333333
26580	0.028	29.46666667
26640	0.025	29.33333333
26700	0.025	28.93333333
26760	0.036	29.4
26820	0.028	29.66666667
26880	0.022	29.4
26940	0.021	29.2
27000	0.022	29.13333333

27060	0.022	28.53333333
27120	0.023	26.53333333
27180	0.024	26.33333333
27240	0.022	25.86666667
27300	0.022	24.8
27360	0.022	24.66666667
27420	0.024	24.4
27480	0.027	24.33333333
27540	0.024	24.26666667
27600	0.043	25.46666667
27660	0.026	24.8
27720	0.023	24.46666667
27780	0.023	24.53333333
27840	0.025	24.8
27900	0.023	24.86666667
27960	0.023	24.93333333
28020	0.024	25
28080	0.023	24.93333333
28140	0.022	24.93333333
28200	0.022	24.93333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_033
Test Start Time	6:43:24 AM
Test Start Date	7/21/2020
Test Length [D:H:M]	0:23:49
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.118
Mass TWA [mg/m3]	0.015
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	328

Max Instant Conc.	Max 15 min TWA Conc.
118	36.6

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.022			
120	0.023			
180	0.022			
240	0.022			
300	0.021			
360	0.022			
420	0.022			
480	0.022			
540	0.022			
600	0.022			
660	0.022			
720	0.022			
780	0.022			
840	0.022			
900	0.022			22
960	0.022			22
1020	0.022			21.93333333
1080	0.022			21.93333333
1140	0.022			21.93333333
1200	0.022			22
1260	0.022			22
1320	0.022			22
1380	0.022			22
1440	0.021			21.93333333
1500	0.021			21.86666667
1560	0.021			21.8
1620	0.021			21.73333333

1680	0.021	21.66666667
1740	0.021	21.6
1800	0.02	21.46666667
1860	0.02	21.33333333
1920	0.02	21.2
1980	0.02	21.06666667
2040	0.02	20.93333333
2100	0.019	20.73333333
2160	0.02	20.6
2220	0.02	20.46666667
2280	0.019	20.26666667
2340	0.019	20.13333333
2400	0.019	20
2460	0.02	19.93333333
2520	0.019	19.8
2580	0.02	19.73333333
2640	0.02	19.66666667
2700	0.02	19.66666667
2760	0.02	19.66666667
2820	0.02	19.66666667
2880	0.02	19.66666667
2940	0.019	19.6
3000	0.02	19.66666667
3060	0.02	19.66666667
3120	0.02	19.66666667
3180	0.02	19.73333333
3240	0.022	19.93333333
3300	0.025	20.33333333
3360	0.024	20.6
3420	0.021	20.73333333
3480	0.022	20.86666667
3540	0.024	21.13333333
3600	0.022	21.26666667
3660	0.022	21.4
3720	0.022	21.53333333
3780	0.021	21.6
3840	0.022	21.8
3900	0.021	21.86666667
3960	0.02	21.86666667
4020	0.02	21.86666667
4080	0.02	21.86666667
4140	0.02	21.73333333
4200	0.02	21.4
4260	0.02	21.13333333
4320	0.02	21.06666667
4380	0.02	20.93333333
4440	0.02	20.66666667

4500	0.02	20.53333333
4560	0.021	20.46666667
4620	0.021	20.4
4680	0.021	20.4
4740	0.021	20.33333333
4800	0.021	20.33333333
4860	0.021	20.4
4920	0.021	20.46666667
4980	0.021	20.53333333
5040	0.021	20.6
5100	0.021	20.66666667
5160	0.02	20.66666667
5220	0.02	20.66666667
5280	0.02	20.66666667
5340	0.02	20.66666667
5400	0.02	20.66666667
5460	0.02	20.6
5520	0.02	20.53333333
5580	0.02	20.46666667
5640	0.02	20.4
5700	0.02	20.33333333
5760	0.02	20.26666667
5820	0.02	20.2
5880	0.021	20.2
5940	0.021	20.2
6000	0.02	20.13333333
6060	0.021	20.2
6120	0.02	20.2
6180	0.02	20.2
6240	0.02	20.2
6300	0.02	20.2
6360	0.02	20.2
6420	0.02	20.2
6480	0.02	20.2
6540	0.02	20.2
6600	0.02	20.2
6660	0.022	20.33333333
6720	0.022	20.46666667
6780	0.021	20.46666667
6840	0.021	20.46666667
6900	0.021	20.53333333
6960	0.021	20.53333333
7020	0.021	20.6
7080	0.021	20.66666667
7140	0.021	20.73333333
7200	0.021	20.8
7260	0.02	20.8

7320	0.02	20.8
7380	0.021	20.86666667
7440	0.021	20.93333333
7500	0.021	21
7560	0.022	21
7620	0.022	21
7680	0.024	21.2
7740	0.021	21.2
7800	0.02	21.13333333
7860	0.02	21.06666667
7920	0.021	21.06666667
7980	0.019	20.93333333
8040	0.025	21.2
8100	0.023	21.33333333
8160	0.024	21.6
8220	0.023	21.8
8280	0.034	22.66666667
8340	0.118	29.13333333
8400	0.054	31.33333333
8460	0.025	31.53333333
8520	0.026	31.8
8580	0.029	32.13333333
8640	0.027	32.53333333
8700	0.027	33
8760	0.036	34.06666667
8820	0.038	35.2
8880	0.03	35.93333333
8940	0.032	36.4
9000	0.023	36.4
9060	0.022	36.26666667
9120	0.028	36.6
9180	0.023	35.86666667
9240	0.035	30.33333333
9300	0.029	28.66666667
9360	0.021	28.4
9420	0.03	28.66666667
9480	0.041	29.46666667
9540	0.04	30.33333333
9600	0.031	30.6
9660	0.021	29.6
9720	0.019	28.33333333
9780	0.029	28.26666667
9840	0.03	28.13333333
9900	0.029	28.53333333
9960	0.026	28.8
10020	0.019	28.2
10080	0.022	28.13333333

10140	0.027	27.6
10200	0.063	29.86666667
10260	0.026	30.2
10320	0.021	29.6
10380	0.021	28.26666667
10440	0.021	27
10500	0.022	26.4
10560	0.02	26.33333333
10620	0.021	26.46666667
10680	0.019	25.8
10740	0.027	25.6
10800	0.025	25.33333333
10860	0.021	25
10920	0.018	24.93333333
10980	0.019	24.73333333
11040	0.034	25.2
11100	0.021	22.4
11160	0.022	22.13333333
11220	0.019	22
11280	0.019	21.86666667
11340	0.02	21.8
11400	0.019	21.6
11460	0.019	21.53333333
11520	0.018	21.33333333
11580	0.019	21.33333333
11640	0.026	21.26666667
11700	0.036	22
11760	0.047	23.73333333
11820	0.019	23.8
11880	0.02	23.86666667
11940	0.023	23.13333333
12000	0.017	22.86666667
12060	0.018	22.6
12120	0.018	22.53333333
12180	0.017	22.4
12240	0.018	22.26666667
12300	0.017	22.13333333
12360	0.018	22.06666667
12420	0.017	22
12480	0.018	21.93333333
12540	0.017	21.33333333
12600	0.017	20.06666667
12660	0.019	18.2
12720	0.017	18.06666667
12780	0.017	17.86666667
12840	0.017	17.46666667
12900	0.017	17.46666667

12960	0.025	17.93333333
13020	0.03	18.73333333
13080	0.018	18.8
13140	0.017	18.73333333
13200	0.017	18.73333333
13260	0.017	18.66666667
13320	0.033	19.73333333
13380	0.02	19.86666667
13440	0.017	19.86666667
13500	0.022	20.2
13560	0.019	20.2
13620	0.024	20.66666667
13680	0.036	21.93333333
13740	0.016	21.86666667
13800	0.042	23.53333333
13860	0.018	23.06666667
13920	0.015	22.06666667
13980	0.015	21.86666667
14040	0.017	21.86666667
14100	0.016	21.8
14160	0.016	21.73333333
14220	0.016	20.6
14280	0.017	20.4
14340	0.016	20.33333333
14400	0.015	19.86666667
14460	0.017	19.73333333
14520	0.016	19.2
14580	0.019	18.06666667
14640	0.016	18.06666667
14700	0.016	16.33333333
14760	0.017	16.26666667
14820	0.016	16.33333333
14880	0.017	16.46666667
14940	0.016	16.4
15000	0.017	16.46666667
15060	0.018	16.6
15120	0.018	16.73333333
15180	0.018	16.8
15240	0.016	16.8
15300	0.017	16.93333333
15360	0.018	17
15420	0.017	17.06666667
15480	0.017	16.93333333
15540	0.018	17.06666667
15600	0.017	17.13333333
15660	0.017	17.13333333
15720	0.017	17.2

15780	0.017	17.2
15840	0.017	17.26666667
15900	0.047	19.26666667
15960	0.017	19.2
16020	0.018	19.2
16080	0.018	19.2
16140	0.019	19.4
16200	0.023	19.8
16260	0.018	19.8
16320	0.018	19.86666667
16380	0.018	19.93333333
16440	0.018	19.93333333
16500	0.018	20
16560	0.05	22.2
16620	0.043	23.93333333
16680	0.088	28.66666667
16740	0.033	29.73333333
16800	0.019	27.86666667
16860	0.019	28
16920	0.026	28.53333333
16980	0.023	28.86666667
17040	0.018	28.8
17100	0.02	28.6
17160	0.022	28.86666667
17220	0.019	28.93333333
17280	0.02	29.06666667
17340	0.02	29.2
17400	0.019	29.26666667
17460	0.034	28.2
17520	0.019	26.6
17580	0.019	22
17640	0.019	21.06666667
17700	0.07	24.46666667
17760	0.021	24.6
17820	0.02	24.2
17880	0.019	23.93333333
17940	0.018	23.93333333
18000	0.018	23.8
18060	0.019	23.6
18120	0.019	23.6
18180	0.018	23.46666667
18240	0.018	23.33333333
18300	0.018	23.26666667
18360	0.018	22.2
18420	0.019	22.2
18480	0.019	22.2
18540	0.032	23.06666667

18600	0.021	19.8
18660	0.019	19.66666667
18720	0.019	19.6
18780	0.019	19.6
18840	0.019	19.66666667
18900	0.019	19.73333333
18960	0.018	19.66666667
19020	0.019	19.66666667
19080	0.021	19.86666667
19140	0.019	19.93333333
19200	0.019	20
19260	0.018	20
19320	0.018	19.93333333
19380	0.018	19.86666667
19440	0.017	18.86666667
19500	0.04	20.13333333
19560	0.019	20.13333333
19620	0.018	20.06666667
85770	0	18.8

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_034
Test Start Time	6:34:39 AM
Test Start Date	7/22/2020
Test Length [D:H:M]	0:07:52
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.014
Mass Maximum [mg/m3]	0.038
Mass TWA [mg/m3]	0.021
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	472

Max Instant Conc.	Max 15 min TWA Conc.
38	32.53333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.029			
120	0.03			
180	0.032			
240	0.033			
300	0.033			
360	0.034			
420	0.033			
480	0.033			
540	0.032			
600	0.032			
660	0.032			
720	0.033			
780	0.033			
840	0.033			
900	0.032			32.26666667
960	0.032			32.46666667
1020	0.031			32.53333333
1080	0.031			32.46666667
1140	0.031			32.33333333
1200	0.031			32.2
1260	0.031			32
1320	0.031			31.86666667
1380	0.03			31.66666667
1440	0.03			31.53333333
1500	0.03			31.4
1560	0.028			31.13333333
1620	0.027			30.73333333

1680	0.026	30.26666667
1740	0.025	29.73333333
1800	0.025	29.26666667
1860	0.027	28.93333333
1920	0.027	28.66666667
1980	0.027	28.4
2040	0.027	28.13333333
2100	0.026	27.8
2160	0.025	27.4
2220	0.025	27
2280	0.025	26.66666667
2340	0.025	26.33333333
2400	0.025	26
2460	0.025	25.8
2520	0.026	25.73333333
2580	0.026	25.73333333
2640	0.026	25.8
2700	0.025	25.8
2760	0.023	25.53333333
2820	0.024	25.33333333
2880	0.023	25.06666667
2940	0.022	24.73333333
3000	0.022	24.46666667
3060	0.022	24.26666667
3120	0.021	24
3180	0.021	23.73333333
3240	0.021	23.46666667
3300	0.02	23.13333333
3360	0.019	22.73333333
3420	0.02	22.33333333
3480	0.019	21.86666667
3540	0.02	21.46666667
3600	0.019	21.06666667
3660	0.019	20.8
3720	0.019	20.46666667
3780	0.019	20.2
3840	0.018	19.93333333
3900	0.019	19.73333333
3960	0.019	19.53333333
4020	0.019	19.4
4080	0.019	19.26666667
4140	0.019	19.13333333
4200	0.019	19.06666667
4260	0.018	19
4320	0.017	18.8
4380	0.018	18.73333333
4440	0.017	18.53333333

4500	0.017	18.4
4560	0.017	18.26666667
4620	0.017	18.13333333
4680	0.017	18
4740	0.017	17.93333333
4800	0.017	17.8
4860	0.016	17.6
4920	0.017	17.46666667
4980	0.016	17.26666667
5040	0.016	17.06666667
5100	0.016	16.86666667
5160	0.017	16.8
5220	0.016	16.73333333
5280	0.017	16.66666667
5340	0.016	16.6
5400	0.016	16.53333333
5460	0.016	16.46666667
5520	0.016	16.4
5580	0.016	16.33333333
5640	0.016	16.26666667
5700	0.016	16.2
5760	0.016	16.2
5820	0.016	16.13333333
5880	0.016	16.13333333
5940	0.016	16.13333333
6000	0.015	16.06666667
6060	0.015	15.93333333
6120	0.015	15.86666667
6180	0.014	15.66666667
6240	0.014	15.53333333
6300	0.015	15.46666667
6360	0.015	15.4
6420	0.014	15.26666667
6480	0.015	15.2
6540	0.014	15.06666667
6600	0.014	14.93333333
6660	0.014	14.8
6720	0.014	14.66666667
6780	0.014	14.53333333
6840	0.014	14.4
6900	0.015	14.4
6960	0.014	14.33333333
7020	0.014	14.26666667
7080	0.014	14.26666667
7140	0.014	14.26666667
7200	0.015	14.26666667
7260	0.015	14.26666667

7320	0.015	14.33333333
7380	0.015	14.33333333
7440	0.014	14.33333333
7500	0.014	14.33333333
7560	0.014	14.33333333
7620	0.014	14.33333333
7680	0.016	14.46666667
7740	0.015	14.53333333
7800	0.014	14.46666667
7860	0.014	14.46666667
7920	0.014	14.46666667
7980	0.014	14.46666667
8040	0.014	14.46666667
8100	0.014	14.4
8160	0.015	14.4
8220	0.015	14.4
8280	0.038	15.93333333
8340	0.015	16
8400	0.015	16.06666667
8460	0.014	16.06666667
8520	0.014	16.06666667
8580	0.014	15.93333333
8640	0.014	15.86666667
8700	0.014	15.86666667
8760	0.014	15.86666667
8820	0.014	15.86666667
8880	0.014	15.86666667
8940	0.014	15.86666667
9000	0.015	15.93333333
9060	0.015	15.93333333
9120	0.017	16.06666667
9180	0.015	14.53333333
9240	0.015	14.53333333
9300	0.015	14.53333333
9360	0.015	14.6
9420	0.015	14.66666667
9480	0.016	14.8
9540	0.017	15
9600	0.015	15.06666667
9660	0.015	15.13333333
9720	0.015	15.2
9780	0.015	15.26666667
9840	0.015	15.33333333
9900	0.015	15.33333333
9960	0.015	15.33333333
10020	0.015	15.2
10080	0.015	15.2

10140	0.016	15.26666667
10200	0.016	15.33333333
10260	0.017	15.46666667
10320	0.016	15.53333333
10380	0.016	15.53333333
10440	0.016	15.46666667
10500	0.017	15.6
10560	0.017	15.73333333
10620	0.017	15.86666667
10680	0.017	16
10740	0.017	16.13333333
10800	0.018	16.33333333
10860	0.018	16.53333333
10920	0.017	16.66666667
10980	0.016	16.73333333
11040	0.016	16.73333333
11100	0.017	16.8
11160	0.017	16.8
11220	0.018	16.93333333
11280	0.017	17
11340	0.017	17.06666667
11400	0.017	17.06666667
11460	0.017	17.06666667
11520	0.017	17.06666667
11580	0.018	17.13333333
11640	0.017	17.13333333
11700	0.018	17.13333333
11760	0.017	17.06666667
11820	0.017	17.06666667
11880	0.017	17.13333333
11940	0.017	17.2
12000	0.017	17.2
12060	0.017	17.2
12120	0.018	17.2
12180	0.017	17.2
12240	0.02	17.4
12300	0.018	17.46666667
12360	0.018	17.53333333
12420	0.018	17.6
12480	0.018	17.6
12540	0.019	17.73333333
12600	0.019	17.8
12660	0.018	17.86666667
12720	0.021	18.13333333
12780	0.018	18.2
12840	0.018	18.26666667
12900	0.018	18.33333333

12960	0.018	18.4
13020	0.018	18.4
13080	0.022	18.73333333
13140	0.019	18.66666667
13200	0.019	18.73333333
13260	0.019	18.8
13320	0.018	18.8
13380	0.018	18.8
13440	0.019	18.8
13500	0.018	18.73333333
13560	0.018	18.73333333
13620	0.019	18.6
13680	0.019	18.66666667
13740	0.019	18.73333333
13800	0.021	18.93333333
13860	0.018	18.93333333
13920	0.019	19
13980	0.019	18.8
14040	0.019	18.8
14100	0.019	18.8
14160	0.019	18.8
14220	0.019	18.86666667
14280	0.019	18.93333333
14340	0.019	18.93333333
14400	0.019	19
14460	0.019	19.06666667
14520	0.019	19.06666667
14580	0.02	19.13333333
14640	0.019	19.13333333
14700	0.019	19
14760	0.02	19.13333333
14820	0.02	19.2
14880	0.02	19.26666667
14940	0.02	19.33333333
15000	0.021	19.46666667
15060	0.02	19.53333333
15120	0.02	19.6
15180	0.02	19.66666667
15240	0.02	19.73333333
15300	0.02	19.8
15360	0.02	19.86666667
15420	0.02	19.93333333
15480	0.02	19.93333333
15540	0.026	20.4
15600	0.022	20.6
15660	0.023	20.8
15720	0.021	20.86666667

15780	0.02	20.86666667
15840	0.02	20.86666667
15900	0.02	20.8
15960	0.02	20.8
16020	0.022	20.93333333
16080	0.02	20.93333333
16140	0.02	20.93333333
16200	0.02	20.93333333
16260	0.02	20.93333333
16320	0.02	20.93333333
16380	0.02	20.93333333
16440	0.02	20.53333333
16500	0.02	20.4
16560	0.02	20.2
16620	0.02	20.13333333
16680	0.02	20.13333333
16740	0.02	20.13333333
16800	0.02	20.13333333
16860	0.02	20.13333333
16920	0.02	20
16980	0.021	20.06666667
17040	0.021	20.13333333
17100	0.023	20.33333333
17160	0.022	20.46666667
17220	0.021	20.53333333
17280	0.021	20.6
17340	0.021	20.66666667
17400	0.021	20.73333333
17460	0.021	20.8
17520	0.021	20.86666667
17580	0.021	20.93333333
17640	0.021	21
17700	0.021	21.06666667
17760	0.021	21.13333333
17820	0.021	21.2
17880	0.021	21.2
17940	0.021	21.2
18000	0.021	21.06666667
18060	0.021	21
18120	0.021	21
18180	0.022	21.06666667
18240	0.023	21.2
18300	0.022	21.26666667
18360	0.021	21.26666667
18420	0.021	21.26666667
18480	0.021	21.26666667
18540	0.021	21.26666667

18600	0.021	21.26666667
18660	0.021	21.26666667
18720	0.021	21.26666667
18780	0.021	21.26666667
18840	0.021	21.26666667
18900	0.022	21.33333333
18960	0.022	21.4
19020	0.023	21.53333333
19080	0.022	21.53333333
19140	0.023	21.53333333
19200	0.022	21.53333333
19260	0.023	21.66666667
19320	0.023	21.8
19380	0.023	21.93333333
19440	0.023	22.06666667
19500	0.023	22.2
19560	0.024	22.4
19620	0.024	22.6
19680	0.024	22.8
19740	0.024	23
19800	0.024	23.13333333
19860	0.023	23.2
19920	0.023	23.2
19980	0.023	23.26666667
20040	0.024	23.33333333
20100	0.024	23.46666667
20160	0.023	23.46666667
20220	0.024	23.53333333
20280	0.024	23.6
20340	0.024	23.66666667
20400	0.024	23.73333333
20460	0.024	23.73333333
20520	0.024	23.73333333
20580	0.024	23.73333333
20640	0.024	23.73333333
20700	0.024	23.73333333
20760	0.025	23.86666667
20820	0.024	23.93333333
20880	0.024	24
20940	0.024	24
21000	0.024	24
21060	0.024	24.06666667
21120	0.028	24.33333333
21180	0.024	24.33333333
21240	0.024	24.33333333
21300	0.024	24.33333333
21360	0.025	24.4

21420	0.024	24.4
21480	0.025	24.46666667
21540	0.024	24.46666667
21600	0.024	24.46666667
21660	0.024	24.4
21720	0.024	24.4
21780	0.025	24.46666667
21840	0.025	24.53333333
21900	0.024	24.53333333
21960	0.025	24.6
22020	0.025	24.4
22080	0.024	24.4
22140	0.025	24.46666667
22200	0.025	24.53333333
22260	0.027	24.66666667
22320	0.026	24.8
22380	0.025	24.8
22440	0.026	24.93333333
22500	0.025	25
22560	0.026	25.13333333
22620	0.025	25.2
22680	0.026	25.26666667
22740	0.026	25.33333333
22800	0.026	25.46666667
22860	0.026	25.53333333
22920	0.026	25.6
22980	0.026	25.73333333
23040	0.026	25.8
23100	0.028	26
23160	0.026	25.93333333
23220	0.026	25.93333333
23280	0.026	26
23340	0.026	26
23400	0.026	26.06666667
23460	0.026	26.06666667
23520	0.026	26.13333333
23580	0.026	26.13333333
23640	0.026	26.13333333
23700	0.026	26.13333333
23760	0.026	26.13333333
23820	0.026	26.13333333
23880	0.026	26.13333333
23940	0.027	26.2
24000	0.027	26.13333333
24060	0.027	26.2
24120	0.027	26.26666667
24180	0.027	26.33333333

24240	0.027	26.4
24300	0.027	26.46666667
24360	0.027	26.53333333
24420	0.027	26.6
24480	0.027	26.66666667
24540	0.028	26.8
24600	0.028	26.93333333
24660	0.028	27.06666667
24720	0.027	27.13333333
24780	0.027	27.2
24840	0.027	27.2
24900	0.027	27.2
24960	0.028	27.26666667
25020	0.028	27.33333333
25080	0.028	27.4
25140	0.028	27.46666667
25200	0.028	27.53333333
25260	0.028	27.6
25320	0.028	27.66666667
25380	0.028	27.73333333
25440	0.027	27.66666667
25500	0.027	27.6
25560	0.027	27.53333333
25620	0.027	27.53333333
25680	0.028	27.6
25740	0.029	27.73333333
25800	0.029	27.86666667
25860	0.029	27.93333333
25920	0.028	27.93333333
25980	0.028	27.93333333
26040	0.03	28.06666667
26100	0.028	28.06666667
26160	0.027	28
26220	0.027	27.93333333
26280	0.027	27.86666667
26340	0.028	27.93333333
26400	0.028	28
26460	0.029	28.13333333
26520	0.027	28.13333333
26580	0.027	28.06666667
26640	0.027	27.93333333
26700	0.027	27.8
26760	0.027	27.66666667
26820	0.028	27.66666667
26880	0.027	27.6
26940	0.027	27.4
27000	0.028	27.4

27060	0.029	27.53333333
27120	0.028	27.6
27180	0.027	27.6
27240	0.027	27.53333333
27300	0.027	27.46666667
27360	0.029	27.46666667
27420	0.029	27.6
27480	0.027	27.6
27540	0.027	27.6
27600	0.029	27.73333333
27660	0.03	27.93333333
27720	0.027	27.86666667
27780	0.027	27.86666667
27840	0.027	27.86666667
27900	0.027	27.8
27960	0.027	27.66666667
28020	0.028	27.66666667
28080	0.029	27.8
28140	0.028	27.86666667
28200	0.028	27.93333333
28260	0.028	27.86666667
28320	0.03	27.93333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_035
Test Start Time	6:34:56 AM
Test Start Date	7/23/2020
Test Length [D:H:M]	0:06:45
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.016
Mass Maximum [mg/m3]	0.104
Mass TWA [mg/m3]	0.019
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	405

Max Instant Conc.	Max 15 min TWA Conc.
104	31.06666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.02			
120	0.022			
180	0.024			
240	0.024			
300	0.024			
360	0.024			
420	0.023			
480	0.022			
540	0.022			
600	0.021			
660	0.021			
720	0.021			
780	0.02			
840	0.019			
900	0.02			21.8
960	0.019			21.73333333
1020	0.02			21.6
1080	0.019			21.26666667
1140	0.018			20.86666667
1200	0.018			20.46666667
1260	0.018			20.06666667
1320	0.018			19.73333333
1380	0.018			19.46666667
1440	0.018			19.2
1500	0.018			19
1560	0.017			18.73333333
1620	0.017			18.46666667

1680	0.017	18.26666667
1740	0.017	18.13333333
1800	0.017	17.93333333
1860	0.017	17.8
1920	0.017	17.6
1980	0.019	17.6
2040	0.017	17.53333333
2100	0.017	17.46666667
2160	0.017	17.4
2220	0.016	17.26666667
2280	0.018	17.26666667
2340	0.018	17.26666667
2400	0.017	17.2
2460	0.017	17.2
2520	0.017	17.2
2580	0.02	17.4
2640	0.018	17.46666667
2700	0.017	17.46666667
2760	0.025	18
2820	0.019	18.13333333
2880	0.018	18.06666667
2940	0.017	18.06666667
3000	0.017	18.06666667
3060	0.017	18.06666667
3120	0.023	18.53333333
3180	0.018	18.53333333
3240	0.02	18.66666667
3300	0.018	18.73333333
3360	0.018	18.8
3420	0.018	18.86666667
3480	0.018	18.73333333
3540	0.018	18.73333333
3600	0.018	18.8
3660	0.017	18.26666667
3720	0.018	18.2
3780	0.017	18.13333333
3840	0.017	18.13333333
3900	0.017	18.13333333
3960	0.018	18.2
4020	0.018	17.86666667
4080	0.018	17.86666667
4140	0.019	17.8
4200	0.018	17.8
4260	0.018	17.8
4320	0.018	17.8
4380	0.018	17.8
4440	0.018	17.8

4500	0.019	17.86666667
4560	0.018	17.93333333
4620	0.018	17.93333333
4680	0.018	18
4740	0.018	18.06666667
4800	0.018	18.13333333
4860	0.018	18.13333333
4920	0.019	18.2
4980	0.018	18.2
5040	0.018	18.13333333
5100	0.02	18.26666667
5160	0.019	18.33333333
5220	0.019	18.4
5280	0.019	18.46666667
5340	0.02	18.6
5400	0.019	18.6
5460	0.019	18.66666667
5520	0.019	18.73333333
5580	0.019	18.8
5640	0.021	19
5700	0.019	19.06666667
5760	0.019	19.13333333
5820	0.019	19.13333333
5880	0.019	19.2
5940	0.019	19.26666667
6000	0.018	19.13333333
6060	0.018	19.06666667
6120	0.018	19
6180	0.018	18.93333333
6240	0.018	18.8
6300	0.019	18.8
6360	0.018	18.73333333
6420	0.018	18.66666667
6480	0.019	18.66666667
6540	0.019	18.53333333
6600	0.019	18.53333333
6660	0.019	18.53333333
6720	0.019	18.53333333
6780	0.019	18.53333333
6840	0.019	18.53333333
6900	0.019	18.6
6960	0.019	18.66666667
7020	0.021	18.86666667
7080	0.02	19
7140	0.019	19.06666667
7200	0.019	19.06666667
7260	0.019	19.13333333

7320	0.019	19.2
7380	0.019	19.2
7440	0.019	19.2
7500	0.019	19.2
7560	0.019	19.2
7620	0.021	19.33333333
7680	0.019	19.33333333
7740	0.02	19.4
7800	0.019	19.4
7860	0.019	19.4
7920	0.019	19.26666667
7980	0.02	19.26666667
8040	0.019	19.26666667
8100	0.019	19.26666667
8160	0.024	19.6
8220	0.021	19.73333333
8280	0.02	19.8
8340	0.02	19.86666667
8400	0.02	19.93333333
8460	0.024	20.26666667
8520	0.02	20.2
8580	0.021	20.33333333
8640	0.02	20.33333333
8700	0.02	20.4
8760	0.022	20.6
8820	0.02	20.66666667
8880	0.02	20.66666667
8940	0.019	20.66666667
9000	0.02	20.73333333
9060	0.02	20.46666667
9120	0.024	20.66666667
9180	0.02	20.66666667
9240	0.02	20.66666667
9300	0.02	20.66666667
9360	0.02	20.4
9420	0.02	20.4
9480	0.021	20.4
9540	0.02	20.4
9600	0.021	20.46666667
9660	0.02	20.33333333
9720	0.02	20.33333333
9780	0.021	20.4
9840	0.022	20.6
9900	0.021	20.66666667
9960	0.02	20.66666667
10020	0.02	20.4
10080	0.02	20.4

10140	0.024	20.66666667
10200	0.02	20.66666667
10260	0.021	20.73333333
10320	0.02	20.73333333
10380	0.022	20.8
10440	0.02	20.8
10500	0.021	20.8
10560	0.024	21.06666667
10620	0.027	21.53333333
10680	0.022	21.6
10740	0.023	21.66666667
10800	0.021	21.66666667
10860	0.021	21.73333333
10920	0.021	21.8
10980	0.024	22.06666667
11040	0.021	21.86666667
11100	0.021	21.93333333
11160	0.023	22.06666667
11220	0.021	22.13333333
11280	0.022	22.13333333
11340	0.022	22.26666667
11400	0.023	22.4
11460	0.021	22.2
11520	0.024	22
11580	0.021	21.93333333
11640	0.021	21.8
11700	0.024	22
11760	0.022	22.06666667
11820	0.022	22.13333333
11880	0.022	22
11940	0.022	22.06666667
12000	0.022	22.13333333
12060	0.021	22
12120	0.023	22.13333333
12180	0.023	22.2
12240	0.025	22.4
12300	0.022	22.33333333
12360	0.022	22.4
12420	0.022	22.26666667
12480	0.021	22.26666667
12540	0.021	22.26666667
12600	0.023	22.2
12660	0.021	22.13333333
12720	0.024	22.26666667
12780	0.024	22.4
12840	0.021	22.33333333
12900	0.021	22.26666667

12960	0.022	22.33333333
13020	0.022	22.26666667
13080	0.024	22.33333333
13140	0.022	22.13333333
13200	0.022	22.13333333
13260	0.023	22.2
13320	0.022	22.2
13380	0.022	22.26666667
13440	0.024	22.46666667
13500	0.023	22.46666667
13560	0.025	22.73333333
13620	0.022	22.6
13680	0.022	22.46666667
13740	0.023	22.6
13800	0.022	22.66666667
13860	0.024	22.8
13920	0.023	22.86666667
13980	0.022	22.73333333
14040	0.024	22.86666667
14100	0.023	22.93333333
14160	0.023	22.93333333
14220	0.023	23
14280	0.024	23.13333333
14340	0.023	23.06666667
14400	0.023	23.06666667
14460	0.023	22.93333333
14520	0.025	23.13333333
14580	0.024	23.26666667
14640	0.023	23.26666667
14700	0.024	23.4
14760	0.025	23.46666667
14820	0.024	23.53333333
14880	0.024	23.66666667
14940	0.03	24.06666667
15000	0.025	24.2
15060	0.027	24.46666667
15120	0.03	24.93333333
15180	0.024	24.93333333
15240	0.023	24.93333333
15300	0.025	25.06666667
15360	0.024	25.13333333
15420	0.026	25.2
15480	0.028	25.46666667
15540	0.024	25.53333333
15600	0.104	30.86666667
15660	0.027	31
15720	0.024	31

15780	0.025	31.06666667
15840	0.024	30.66666667
15900	0.024	30.6
15960	0.025	30.46666667
16020	0.025	30.13333333
16080	0.025	30.2
16140	0.026	30.4
16200	0.024	30.33333333
16260	0.024	30.33333333
16320	0.024	30.2
16380	0.024	29.93333333
16440	0.024	29.93333333
16500	0.024	24.6
16560	0.024	24.4
16620	0.023	24.33333333
16680	0.023	24.2
16740	0.023	24.13333333
16800	0.026	24.26666667
16860	0.025	24.26666667
16920	0.027	24.4
16980	0.025	24.4
17040	0.025	24.33333333
17100	0.026	24.46666667
17160	0.025	24.53333333
17220	0.026	24.66666667
17280	0.031	25.13333333
17340	0.026	25.26666667
17400	0.024	25.26666667
17460	0.025	25.33333333
17520	0.024	25.4
17580	0.026	25.6
17640	0.024	25.66666667
17700	0.025	25.6
17760	0.027	25.73333333
17820	0.024	25.53333333
17880	0.026	25.6
17940	0.025	25.6
18000	0.025	25.53333333
18060	0.025	25.53333333
18120	0.025	25.46666667
18180	0.025	25.06666667
18240	0.025	25
18300	0.027	25.2
18360	0.025	25.2
18420	0.024	25.2
18480	0.024	25.06666667
18540	0.025	25.13333333

18600	0.027	25.26666667
18660	0.027	25.26666667
18720	0.025	25.33333333
18780	0.026	25.33333333
18840	0.025	25.33333333
18900	0.028	25.53333333
18960	0.033	26.06666667
19020	0.025	26.06666667
19080	0.024	26
19140	0.025	26
19200	0.027	26
19260	0.026	26.06666667
19320	0.025	26.13333333
19380	0.026	26.26666667
19440	0.026	26.33333333
19500	0.029	26.46666667
19560	0.026	26.4
19620	0.027	26.53333333
19680	0.026	26.53333333
19740	0.025	26.53333333
19800	0.026	26.4
19860	0.026	25.93333333
19920	0.029	26.2
19980	0.026	26.33333333
20040	0.026	26.4
20100	0.028	26.46666667
20160	0.029	26.66666667
20220	0.03	27
20280	0.025	26.93333333
20340	0.024	26.8
20400	0.026	26.6
20460	0.027	26.66666667
20520	0.028	26.73333333
20580	0.024	26.6
20640	0.025	26.6
20700	0.025	26.53333333
20760	0.025	26.46666667
20820	0.027	26.33333333
20880	0.026	26.33333333
20940	0.024	26.2
21000	0.026	26.06666667
21060	0.024	25.73333333
21120	0.024	25.33333333
21180	0.027	25.46666667
21240	0.025	25.53333333
21300	0.024	25.4
21360	0.025	25.26666667

21420	0.031	25.46666667
21480	0.024	25.46666667
21540	0.025	25.46666667
21600	0.025	25.46666667
21660	0.025	25.46666667
21720	0.024	25.26666667
21780	0.026	25.26666667
21840	0.025	25.33333333
21900	0.028	25.46666667
21960	0.024	25.46666667
22020	0.024	25.46666667
22080	0.024	25.26666667
22140	0.026	25.33333333
22200	0.026	25.46666667
22260	0.025	25.46666667
22320	0.026	25.13333333
22380	0.025	25.2
22440	0.027	25.33333333
22500	0.025	25.33333333
22560	0.025	25.33333333
22620	0.026	25.46666667
22680	0.026	25.46666667
22740	0.025	25.46666667
22800	0.025	25.26666667
22860	0.025	25.33333333
22920	0.026	25.46666667
22980	0.025	25.53333333
23040	0.026	25.53333333
23100	0.026	25.53333333
23160	0.027	25.66666667
23220	0.029	25.86666667
23280	0.025	25.86666667
23340	0.026	25.8
23400	0.024	25.73333333
23460	0.024	25.66666667
23520	0.024	25.53333333
23580	0.025	25.46666667
23640	0.024	25.4
23700	0.025	25.4
23760	0.025	25.4
23820	0.028	25.53333333
23880	0.025	25.53333333
23940	0.024	25.4
24000	0.025	25.33333333
24060	0.024	25.13333333
24120	0.025	24.86666667
24180	0.024	24.8

24240	0.025	24.73333333
24300	0.026	24.86666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_036
Test Start Time	6:51:51 AM
Test Start Date	7/24/2020
Test Length [D:H:M]	0:04:06
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.008
Mass Maximum [mg/m3]	0.034
Mass TWA [mg/m3]	0.011
Photometric User Cal	1
Flow User Cal	0
Errors	Flow Error
Number of Samples	246

Max Instant Conc.	Max 15 min TWA Conc.
34	26.13333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.024			
120	0.023			
180	0.023			
240	0.022			
300	0.022			
360	0.022			
420	0.021			
480	0.021			
540	0.021			
600	0.021			
660	0.023			
720	0.021			
780	0.026			
840	0.024			
900	0.022			22.4
960	0.021			22.2
1020	0.02			22
1080	0.019			21.73333333
1140	0.019			21.53333333
1200	0.02			21.4
1260	0.021			21.33333333
1320	0.021			21.33333333
1380	0.02			21.26666667
1440	0.019			21.13333333
1500	0.02			21.06666667
1560	0.019			20.8
1620	0.019			20.66666667
1680	0.019			20.2

1740	0.019	19.86666667
1800	0.019	19.66666667
1860	0.02	19.6
1920	0.019	19.53333333
1980	0.02	19.6
2040	0.019	19.6
2100	0.02	19.6
2160	0.021	19.6
2220	0.02	19.53333333
2280	0.02	19.53333333
2340	0.02	19.6
2400	0.019	19.53333333
2460	0.019	19.53333333
2520	0.02	19.6
2580	0.02	19.66666667
2640	0.02	19.73333333
2700	0.022	19.93333333
2760	0.02	19.93333333
2820	0.023	20.2
2880	0.02	20.2
2940	0.02	20.26666667
3000	0.021	20.33333333
3060	0.024	20.53333333
3120	0.021	20.6
3180	0.02	20.6
3240	0.02	20.6
3300	0.02	20.66666667
3360	0.02	20.73333333
3420	0.02	20.73333333
3480	0.02	20.73333333
3540	0.02	20.73333333
3600	0.021	20.66666667
3660	0.02	20.66666667
3720	0.021	20.53333333
3780	0.02	20.53333333
3840	0.021	20.6
3900	0.022	20.66666667
3960	0.025	20.73333333
4020	0.02	20.66666667
4080	0.021	20.73333333
4140	0.021	20.8
4200	0.021	20.86666667
4260	0.021	20.93333333
4320	0.021	21
4380	0.021	21.06666667
4440	0.021	21.13333333
4500	0.022	21.2
4560	0.023	21.4

4620	0.023	21.53333333
4680	0.026	21.93333333
4740	0.022	22
4800	0.023	22.06666667
4860	0.022	21.86666667
4920	0.021	21.93333333
4980	0.021	21.93333333
5040	0.021	21.93333333
5100	0.021	21.93333333
5160	0.022	22
5220	0.022	22.06666667
5280	0.026	22.4
5340	0.024	22.6
5400	0.022	22.6
5460	0.022	22.53333333
5520	0.022	22.46666667
5580	0.022	22.2
5640	0.024	22.33333333
5700	0.024	22.4
5760	0.022	22.4
5820	0.022	22.46666667
5880	0.022	22.53333333
5940	0.023	22.66666667
6000	0.026	23
6060	0.027	23.33333333
6120	0.028	23.73333333
6180	0.023	23.53333333
6240	0.021	23.33333333
6300	0.021	23.26666667
6360	0.021	23.2
6420	0.021	23.13333333
6480	0.021	23.06666667
6540	0.021	22.86666667
6600	0.021	22.66666667
6660	0.021	22.6
6720	0.022	22.6
6780	0.023	22.66666667
6840	0.021	22.53333333
6900	0.021	22.2
6960	0.022	21.86666667
7020	0.022	21.46666667
7080	0.022	21.4
7140	0.022	21.46666667
7200	0.022	21.53333333
7260	0.022	21.6
7320	0.022	21.66666667
7380	0.022	21.73333333
7440	0.022	21.8

7500	0.022	21.86666667
7560	0.022	21.93333333
7620	0.022	21.93333333
7680	0.022	21.86666667
7740	0.022	21.93333333
7800	0.022	22
7860	0.022	22
7920	0.021	21.93333333
7980	0.021	21.86666667
8040	0.021	21.8
8100	0.023	21.86666667
8160	0.022	21.86666667
8220	0.021	21.8
8280	0.021	21.73333333
8340	0.022	21.73333333
8400	0.021	21.66666667
8460	0.021	21.6
8520	0.021	21.53333333
8580	0.021	21.46666667
8640	0.021	21.4
8700	0.022	21.4
8760	0.021	21.33333333
8820	0.021	21.33333333
8880	0.021	21.33333333
8940	0.022	21.4
9000	0.022	21.33333333
9060	0.022	21.33333333
9120	0.022	21.4
9180	0.022	21.46666667
9240	0.022	21.46666667
9300	0.022	21.53333333
9360	0.022	21.6
9420	0.022	21.66666667
9480	0.022	21.73333333
9540	0.022	21.8
9600	0.023	21.86666667
9660	0.023	22
9720	0.023	22.13333333
9780	0.023	22.26666667
9840	0.024	22.4
9900	0.024	22.53333333
9960	0.024	22.66666667
10020	0.029	23.13333333
10080	0.026	23.4
10140	0.023	23.46666667
10200	0.025	23.66666667
10260	0.029	24.13333333
10320	0.025	24.33333333

10380	0.024	24.46666667
10440	0.024	24.6
10500	0.024	24.66666667
10560	0.025	24.8
10620	0.024	24.86666667
10680	0.025	25
10740	0.024	25
10800	0.023	24.93333333
10860	0.027	25.13333333
10920	0.027	25
10980	0.024	24.86666667
11040	0.024	24.93333333
11100	0.025	24.93333333
11160	0.026	24.73333333
11220	0.023	24.6
11280	0.024	24.6
11340	0.024	24.6
11400	0.024	24.6
11460	0.027	24.73333333
11520	0.024	24.73333333
11580	0.025	24.73333333
11640	0.027	24.93333333
11700	0.027	25.2
11760	0.028	25.26666667
11820	0.029	25.4
11880	0.027	25.6
11940	0.027	25.8
12000	0.025	25.8
12060	0.025	25.73333333
12120	0.027	26
12180	0.026	26.13333333
12240	0.024	26.13333333
12300	0.024	26.13333333
12360	0.025	26
12420	0.025	26.06666667
12480	0.024	26
12540	0.024	25.8
12600	0.024	25.6
12660	0.025	25.4
12720	0.025	25.13333333
12780	0.029	25.26666667
12840	0.029	25.4
12900	0.026	25.46666667
12960	0.025	25.46666667
13020	0.025	25.33333333
13080	0.025	25.26666667
13140	0.024	25.26666667
13200	0.025	25.33333333

13260	0.024		25.26666667
13320	0.024		25.2
13380	0.024		25.2
13440	0.024		25.2
13500	0.024		25.2
13560	0.024		25.13333333
13620	0.025		25.13333333
13680	0.024		24.8
13740	0.023		24.4
13800	0.023		24.2
13860	0.024		24.13333333
13920	0.024		24.06666667
13980	0.022		23.86666667
14040	0.023		23.8
14100	0.023		23.66666667
14160	0.023		23.6
14220	0.023		23.53333333
14280	0.023		23.46666667
14340	0.023		23.4
14400	0.023		23.33333333
14460	0.021	Flow Error	23.13333333
14520	0.008	Flow Error	22
14580	0.014	Flow Error	21.33333333
14640	0.013	Flow Error	20.66666667
14700	0.034	Flow Error	21.4
14760	0.029	Flow Error	21.73333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_037
Test Start Time	6:41:08 AM
Test Start Date	7/27/2020
Test Length [D:H:M]	0:07:51
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.026
Mass Minimum [mg/m3]	0.023
Mass Maximum [mg/m3]	0.062
Mass TWA [mg/m3]	0.025
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	471

Max Instant Conc.	Max 15 min TWA Conc.
62	34.06666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.026			
120	0.025			
180	0.026			
240	0.027			
300	0.029			
360	0.04			
420	0.036			
480	0.032			
540	0.034			
600	0.027			
660	0.03			
720	0.029			
780	0.032			
840	0.03			
900	0.034			30.46666667
960	0.035			31.06666667
1020	0.038			31.93333333
1080	0.033			32.4
1140	0.042			33.4
1200	0.039			34.06666667
1260	0.037			33.86666667
1320	0.031			33.53333333
1380	0.028			33.26666667
1440	0.029			32.93333333
1500	0.033			33.33333333
1560	0.03			33.33333333
1620	0.027			33.2

1680	0.027	32.86666667
1740	0.026	32.6
1800	0.028	32.2
1860	0.029	31.8
1920	0.027	31.06666667
1980	0.027	30.66666667
2040	0.027	29.66666667
2100	0.025	28.73333333
2160	0.025	27.93333333
2220	0.024	27.46666667
2280	0.023	27.13333333
2340	0.024	26.8
2400	0.023	26.13333333
2460	0.025	25.8
2520	0.024	25.6
2580	0.024	25.4
2640	0.024	25.26666667
2700	0.025	25.06666667
2760	0.025	24.8
2820	0.024	24.6
2880	0.025	24.46666667
2940	0.024	24.26666667
3000	0.024	24.2
3060	0.024	24.13333333
3120	0.024	24.13333333
3180	0.024	24.2
3240	0.024	24.2
3300	0.024	24.26666667
3360	0.025	24.26666667
3420	0.025	24.33333333
3480	0.025	24.4
3540	0.024	24.4
3600	0.024	24.33333333
3660	0.024	24.26666667
3720	0.024	24.26666667
3780	0.024	24.2
3840	0.024	24.2
3900	0.025	24.26666667
3960	0.025	24.33333333
4020	0.025	24.4
4080	0.025	24.46666667
4140	0.025	24.53333333
4200	0.026	24.66666667
4260	0.025	24.66666667
4320	0.024	24.6
4380	0.024	24.53333333
4440	0.026	24.66666667

4500	0.026	24.8
4560	0.025	24.86666667
4620	0.025	24.93333333
4680	0.025	25
4740	0.025	25.06666667
4800	0.026	25.13333333
4860	0.025	25.13333333
4920	0.025	25.13333333
4980	0.025	25.13333333
5040	0.025	25.13333333
5100	0.025	25.06666667
5160	0.025	25.06666667
5220	0.025	25.13333333
5280	0.025	25.2
5340	0.025	25.13333333
5400	0.026	25.13333333
5460	0.026	25.2
5520	0.025	25.2
5580	0.025	25.2
5640	0.024	25.13333333
5700	0.024	25
5760	0.024	24.93333333
5820	0.024	24.86666667
5880	0.024	24.8
5940	0.024	24.73333333
6000	0.024	24.66666667
6060	0.024	24.6
6120	0.024	24.53333333
6180	0.025	24.53333333
6240	0.025	24.53333333
6300	0.025	24.46666667
6360	0.025	24.4
6420	0.025	24.4
6480	0.025	24.4
6540	0.024	24.4
6600	0.025	24.46666667
6660	0.024	24.46666667
6720	0.024	24.46666667
6780	0.024	24.46666667
6840	0.024	24.46666667
6900	0.024	24.46666667
6960	0.024	24.46666667
7020	0.024	24.46666667
7080	0.025	24.46666667
7140	0.025	24.46666667
7200	0.025	24.46666667
7260	0.025	24.46666667

7320	0.025	24.46666667
7380	0.025	24.46666667
7440	0.025	24.53333333
7500	0.025	24.53333333
7560	0.025	24.6
7620	0.024	24.6
7680	0.024	24.6
7740	0.025	24.66666667
7800	0.024	24.66666667
7860	0.025	24.73333333
7920	0.025	24.8
7980	0.025	24.8
8040	0.026	24.86666667
8100	0.025	24.86666667
8160	0.026	24.93333333
8220	0.026	25
8280	0.026	25.06666667
8340	0.027	25.2
8400	0.026	25.26666667
8460	0.026	25.33333333
8520	0.025	25.4
8580	0.025	25.46666667
8640	0.025	25.46666667
8700	0.026	25.6
8760	0.027	25.73333333
8820	0.027	25.86666667
8880	0.029	26.13333333
8940	0.027	26.2
9000	0.026	26.26666667
9060	0.026	26.26666667
9120	0.025	26.2
9180	0.026	26.2
9240	0.025	26.06666667
9300	0.025	26
9360	0.025	25.93333333
9420	0.025	25.93333333
9480	0.024	25.86666667
9540	0.026	25.93333333
9600	0.025	25.86666667
9660	0.027	25.86666667
9720	0.027	25.86666667
9780	0.025	25.6
9840	0.026	25.53333333
9900	0.031	25.86666667
9960	0.027	25.93333333
10020	0.025	25.93333333
10080	0.025	25.86666667

10140	0.025	25.86666667
10200	0.025	25.86666667
10260	0.025	25.86666667
10320	0.024	25.8
10380	0.024	25.8
10440	0.024	25.66666667
10500	0.024	25.6
10560	0.024	25.4
10620	0.024	25.2
10680	0.026	25.26666667
10740	0.024	25.13333333
10800	0.024	24.66666667
10860	0.024	24.46666667
10920	0.025	24.46666667
10980	0.025	24.46666667
11040	0.026	24.53333333
11100	0.024	24.46666667
11160	0.025	24.46666667
11220	0.024	24.46666667
11280	0.025	24.53333333
11340	0.024	24.53333333
11400	0.024	24.53333333
11460	0.026	24.66666667
11520	0.026	24.8
11580	0.024	24.66666667
11640	0.024	24.66666667
11700	0.024	24.66666667
11760	0.024	24.66666667
11820	0.024	24.6
11880	0.024	24.53333333
11940	0.025	24.46666667
12000	0.024	24.46666667
12060	0.026	24.53333333
12120	0.025	24.6
12180	0.025	24.6
12240	0.024	24.6
12300	0.024	24.6
12360	0.025	24.53333333
12420	0.024	24.4
12480	0.025	24.46666667
12540	0.025	24.53333333
12600	0.024	24.53333333
12660	0.026	24.66666667
12720	0.025	24.73333333
12780	0.025	24.8
12840	0.025	24.8
12900	0.025	24.86666667

12960	0.027	24.93333333
13020	0.027	25.06666667
13080	0.025	25.06666667
13140	0.024	25.06666667
13200	0.024	25.06666667
13260	0.025	25.06666667
13320	0.025	25.13333333
13380	0.024	25.06666667
13440	0.024	25
13500	0.025	25.06666667
13560	0.025	25
13620	0.025	25
13680	0.026	25.06666667
13740	0.026	25.13333333
13800	0.025	25.13333333
13860	0.024	24.93333333
13920	0.025	24.8
13980	0.025	24.8
14040	0.025	24.86666667
14100	0.025	24.93333333
14160	0.025	24.93333333
14220	0.024	24.86666667
14280	0.025	24.93333333
14340	0.027	25.13333333
14400	0.026	25.2
14460	0.027	25.33333333
14520	0.026	25.4
14580	0.026	25.4
14640	0.026	25.4
14700	0.028	25.6
14760	0.027	25.8
14820	0.027	25.93333333
14880	0.027	26.06666667
14940	0.027	26.2
15000	0.026	26.26666667
15060	0.027	26.4
15120	0.026	26.53333333
15180	0.026	26.6
15240	0.026	26.53333333
15300	0.026	26.53333333
15360	0.025	26.4
15420	0.025	26.33333333
15480	0.025	26.26666667
15540	0.025	26.2
15600	0.025	26
15660	0.025	25.86666667
15720	0.026	25.8

15780	0.027	25.8
15840	0.025	25.66666667
15900	0.025	25.6
15960	0.024	25.4
16020	0.024	25.26666667
16080	0.025	25.2
16140	0.028	25.33333333
16200	0.027	25.4
16260	0.025	25.4
16320	0.027	25.53333333
16380	0.026	25.6
16440	0.025	25.6
16500	0.025	25.6
16560	0.025	25.6
16620	0.025	25.53333333
16680	0.025	25.4
16740	0.025	25.4
16800	0.025	25.4
16860	0.025	25.46666667
16920	0.026	25.6
16980	0.025	25.6
17040	0.026	25.46666667
17100	0.025	25.33333333
17160	0.025	25.33333333
17220	0.025	25.2
17280	0.026	25.2
17340	0.025	25.2
17400	0.024	25.13333333
17460	0.025	25.13333333
17520	0.025	25.13333333
17580	0.025	25.13333333
17640	0.025	25.13333333
17700	0.025	25.13333333
17760	0.025	25.13333333
17820	0.025	25.06666667
17880	0.024	25
17940	0.024	24.86666667
18000	0.024	24.8
18060	0.023	24.66666667
18120	0.024	24.6
18180	0.025	24.53333333
18240	0.025	24.53333333
18300	0.024	24.53333333
18360	0.024	24.46666667
18420	0.025	24.46666667
18480	0.025	24.46666667
18540	0.024	24.4

18600	0.024	24.33333333
18660	0.025	24.33333333
18720	0.024	24.26666667
18780	0.024	24.26666667
18840	0.024	24.26666667
18900	0.024	24.26666667
18960	0.024	24.33333333
19020	0.025	24.4
19080	0.025	24.4
19140	0.024	24.33333333
19200	0.025	24.4
19260	0.025	24.46666667
19320	0.025	24.46666667
19380	0.024	24.4
19440	0.024	24.4
19500	0.024	24.4
19560	0.025	24.4
19620	0.028	24.66666667
19680	0.025	24.73333333
19740	0.025	24.8
19800	0.028	25.06666667
19860	0.027	25.26666667
19920	0.025	25.26666667
19980	0.025	25.26666667
20040	0.025	25.33333333
20100	0.024	25.26666667
20160	0.024	25.2
20220	0.024	25.13333333
20280	0.024	25.13333333
20340	0.024	25.13333333
20400	0.025	25.2
20460	0.025	25.2
20520	0.024	24.93333333
20580	0.025	24.93333333
20640	0.025	24.93333333
20700	0.025	24.73333333
20760	0.026	24.66666667
20820	0.026	24.73333333
20880	0.025	24.73333333
20940	0.026	24.8
21000	0.025	24.86666667
21060	0.024	24.86666667
21120	0.025	24.93333333
21180	0.026	25.06666667
21240	0.025	25.13333333
21300	0.025	25.13333333
21360	0.025	25.13333333

21420	0.025	25.2
21480	0.027	25.33333333
21540	0.025	25.33333333
21600	0.025	25.33333333
21660	0.026	25.33333333
21720	0.025	25.26666667
21780	0.025	25.26666667
21840	0.025	25.2
21900	0.027	25.33333333
21960	0.026	25.46666667
22020	0.026	25.53333333
22080	0.028	25.66666667
22140	0.027	25.8
22200	0.027	25.93333333
22260	0.026	26
22320	0.027	26.13333333
22380	0.025	26
22440	0.026	26.06666667
22500	0.026	26.13333333
22560	0.03	26.4
22620	0.042	27.53333333
22680	0.028	27.73333333
22740	0.026	27.8
22800	0.026	27.73333333
22860	0.025	27.66666667
22920	0.025	27.6
22980	0.026	27.46666667
23040	0.026	27.4
23100	0.024	27.2
23160	0.025	27.13333333
23220	0.033	27.53333333
23280	0.024	27.46666667
23340	0.024	27.33333333
23400	0.025	27.26666667
23460	0.026	27
23520	0.028	26.06666667
23580	0.027	26
23640	0.024	25.86666667
23700	0.024	25.73333333
23760	0.029	26
23820	0.025	26
23880	0.024	25.86666667
23940	0.025	25.8
24000	0.024	25.8
24060	0.024	25.73333333
24120	0.024	25.13333333
24180	0.026	25.26666667

24240	0.025	25.33333333
24300	0.025	25.33333333
24360	0.025	25.26666667
24420	0.025	25.06666667
24480	0.024	24.86666667
24540	0.024	24.86666667
24600	0.027	25.06666667
24660	0.03	25.13333333
24720	0.026	25.2
24780	0.026	25.33333333
24840	0.026	25.4
24900	0.024	25.4
24960	0.025	25.46666667
25020	0.025	25.53333333
25080	0.024	25.4
25140	0.026	25.46666667
25200	0.024	25.4
25260	0.024	25.33333333
25320	0.025	25.33333333
25380	0.029	25.66666667
25440	0.031	26.13333333
25500	0.025	26
25560	0.025	25.66666667
25620	0.026	25.66666667
25680	0.026	25.66666667
25740	0.026	25.66666667
25800	0.025	25.73333333
25860	0.026	25.8
25920	0.026	25.86666667
25980	0.026	26
26040	0.025	25.93333333
26100	0.025	26
26160	0.025	26.06666667
26220	0.024	26
26280	0.025	25.73333333
26340	0.026	25.4
26400	0.025	25.4
26460	0.025	25.4
26520	0.026	25.4
26580	0.025	25.33333333
26640	0.025	25.26666667
26700	0.025	25.26666667
26760	0.025	25.2
26820	0.025	25.13333333
26880	0.031	25.46666667
26940	0.026	25.53333333
27000	0.025	25.53333333

27060	0.031	25.93333333
27120	0.029	26.26666667
27180	0.034	26.86666667
27240	0.025	26.8
27300	0.025	26.8
27360	0.023	26.66666667
27420	0.024	26.53333333
27480	0.025	26.53333333
27540	0.026	26.6
27600	0.026	26.66666667
27660	0.062	29.13333333
27720	0.032	29.6
27780	0.026	29.26666667
27840	0.024	29.13333333
27900	0.03	29.46666667
27960	0.025	29.06666667
28020	0.025	28.8
28080	0.026	28.26666667
28140	0.026	28.33333333
28200	0.025	28.33333333
28260	0.024	28.4

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_038
Test Start Time	7:17:40 AM
Test Start Date	7/28/2020
Test Length [D:H:M]	0:09:31
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.027
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.315
Mass TWA [mg/m3]	0.024
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	432

Max Instant Conc.	Max 15 min TWA Conc.
315	83.73333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.048			
120	0.051			
180	0.051			
240	0.052			
300	0.053			
360	0.053			
420	0.052			
480	0.052			
540	0.052			
600	0.049			
660	0.045			
720	0.043			
780	0.043			
840	0.042			
900	0.042			48.53333333
960	0.042			48.13333333
1020	0.042			47.53333333
1080	0.041			46.86666667
1140	0.04			46.06666667
1200	0.04			45.2
1260	0.04			44.33333333
1320	0.038			43.4
1380	0.036			42.33333333
1440	0.036			41.26666667
1500	0.036			40.4
1560	0.036			39.8
1620	0.035			39.26666667

1680	0.035	38.73333333
1740	0.035	38.26666667
1800	0.034	37.73333333
1860	0.034	37.2
1920	0.034	36.66666667
1980	0.034	36.2
2040	0.034	35.8
2100	0.033	35.33333333
2160	0.032	34.8
2220	0.032	34.4
2280	0.031	34.06666667
2340	0.032	33.8
2400	0.031	33.46666667
2460	0.03	33.06666667
2520	0.03	32.73333333
2580	0.03	32.4
2640	0.03	32.06666667
2700	0.03	31.8
2760	0.03	31.53333333
2820	0.029	31.2
2880	0.029	30.86666667
2940	0.029	30.53333333
3000	0.029	30.26666667
3060	0.028	30
3120	0.028	29.73333333
3180	0.028	29.53333333
3240	0.028	29.26666667
3300	0.029	29.13333333
3360	0.029	29.06666667
3420	0.028	28.93333333
3480	0.028	28.8
3540	0.044	29.73333333
3600	0.028	29.6
3660	0.028	29.46666667
3720	0.027	29.33333333
3780	0.028	29.26666667
3840	0.026	29.06666667
3900	0.026	28.86666667
3960	0.026	28.73333333
4020	0.026	28.6
4080	0.023	28.26666667
4140	0.023	27.93333333
4200	0.022	27.46666667
4260	0.023	27.06666667
4320	0.023	26.73333333
4380	0.023	26.4
4440	0.023	25

4500	0.024	24.73333333
4560	0.028	24.73333333
4620	0.023	24.46666667
4680	0.022	24.06666667
4740	0.023	23.86666667
4800	0.021	23.53333333
4860	0.026	23.53333333
4920	0.024	23.4
4980	0.025	23.53333333
5040	0.025	23.66666667
5100	0.023	23.73333333
5160	0.022	23.66666667
5220	0.021	23.53333333
5280	0.022	23.46666667
5340	0.021	23.33333333
5400	0.022	23.2
5460	0.022	22.8
5520	0.02	22.6
5580	0.021	22.53333333
5640	0.025	22.66666667
5700	0.022	22.73333333
5760	0.022	22.46666667
5820	0.022	22.33333333
5880	0.02	22
5940	0.021	21.73333333
6000	0.024	21.8
6060	0.022	21.8
6120	0.021	21.8
6180	0.02	21.66666667
6240	0.021	21.66666667
6300	0.02	21.53333333
6360	0.021	21.46666667
6420	0.137	29.26666667
6480	0.021	29.26666667
6540	0.021	29
6600	0.023	29.06666667
6660	0.019	28.86666667
6720	0.019	28.66666667
6780	0.019	28.6
6840	0.02	28.53333333
6900	0.019	28.2
6960	0.025	28.4
7020	0.021	28.4
7080	0.02	28.4
7140	0.018	28.2
7200	0.02	28.2
7260	0.02	28.13333333

7320	0.019	20.26666667
7380	0.025	20.53333333
7440	0.02	20.46666667
7500	0.024	20.53333333
7560	0.024	20.86666667
7620	0.023	21.13333333
7680	0.022	21.33333333
7740	0.02	21.33333333
7800	0.022	21.53333333
7860	0.026	21.6
7920	0.022	21.66666667
7980	0.019	21.6
8040	0.021	21.8
8100	0.024	22.06666667
8160	0.06	24.73333333
8220	0.034	25.73333333
8280	0.023	25.6
8340	0.022	25.73333333
8400	0.02	25.46666667
8460	0.019	25.13333333
8520	0.02	24.93333333
8580	0.027	25.26666667
8640	0.02	25.26666667
8700	0.018	25
8760	0.019	24.53333333
8820	0.018	24.26666667
8880	0.018	24.2
8940	0.018	24
9000	0.018	23.6
9060	0.018	20.8
9120	0.018	19.73333333
9180	0.017	19.33333333
9240	0.019	19.13333333
9300	0.018	19
9360	0.018	18.93333333
9420	0.018	18.8
9480	0.019	18.26666667
9540	0.019	18.2
9600	0.019	18.26666667
9660	0.018	18.2
9720	0.018	18.2
9780	0.019	18.26666667
9840	0.019	18.33333333
9900	0.019	18.4
9960	0.019	18.46666667
10020	0.02	18.6
10080	0.018	18.66666667

10140	0.019	18.66666667
10200	0.023	19
10260	0.019	19.06666667
10320	0.019	19.13333333
10380	0.019	19.13333333
10440	0.025	19.53333333
10500	0.023	19.8
10560	0.02	19.93333333
10620	0.019	20
10680	0.02	20.06666667
10740	0.021	20.2
10800	0.022	20.4
10860	0.028	21
10920	0.025	21.33333333
10980	0.021	21.53333333
11040	0.019	21.53333333
11100	0.018	21.2
11160	0.018	21.13333333
11220	0.019	21.13333333
11280	0.024	21.46666667
11340	0.02	21.13333333
11400	0.02	20.93333333
11460	0.019	20.86666667
11520	0.019	20.86666667
11580	0.019	20.8
11640	0.019	20.66666667
11700	0.037	21.66666667
11760	0.019	21.06666667
11820	0.019	20.66666667
11880	0.019	20.53333333
11940	0.02	20.6
12000	0.019	20.66666667
12060	0.021	20.86666667
12120	0.023	21.13333333
12180	0.026	21.26666667
12240	0.021	21.33333333
12300	0.02	21.33333333
12360	0.019	21.33333333
12420	0.019	21.33333333
12480	0.024	21.66666667
12540	0.021	21.8
12600	0.022	20.8
12660	0.021	20.93333333
12720	0.021	21.06666667
12780	0.02	21.13333333
12840	0.02	21.13333333
12900	0.02	21.2

12960	0.025	21.46666667
13020	0.026	21.66666667
13080	0.041	22.66666667
13140	0.035	23.6
13200	0.02	23.6
13260	0.023	23.86666667
13320	0.021	24
13380	0.02	23.73333333
13440	0.023	23.86666667
13500	0.024	24
13560	0.021	24
13620	0.027	24.4
13680	0.02	24.4
13740	0.02	24.4
13800	0.02	24.4
13860	0.019	24
13920	0.021	23.66666667
13980	0.019	22.2
14040	0.018	21.06666667
14100	0.02	21.06666667
14160	0.021	20.93333333
14220	0.021	20.93333333
14280	0.018	20.8
14340	0.019	20.53333333
14400	0.023	20.46666667
14460	0.019	20.33333333
14520	0.018	19.73333333
14580	0.02	19.73333333
14640	0.021	19.8
14700	0.018	19.66666667
14760	0.02	19.73333333
14820	0.018	19.53333333
14880	0.018	19.46666667
14940	0.018	19.46666667
15000	0.019	19.4
15060	0.019	19.26666667
15120	0.019	19.13333333
15180	0.019	19.2
15240	0.018	19.13333333
15300	0.018	18.8
15360	0.019	18.8
15420	0.019	18.86666667
15480	0.018	18.73333333
15540	0.018	18.53333333
15600	0.019	18.6
15660	0.018	18.46666667
15720	0.018	18.46666667

15780	0.018	18.46666667
15840	0.018	18.46666667
15900	0.018	18.4
15960	0.018	18.33333333
16020	0.042	19.86666667
16080	0.02	19.93333333
16140	0.018	19.93333333
16200	0.018	19.93333333
16260	0.017	19.8
16320	0.017	19.66666667
16380	0.017	19.6
16440	0.018	19.6
16500	0.018	19.53333333
16560	0.017	19.46666667
16620	0.017	19.4
16680	0.017	19.33333333
16740	0.017	19.26666667
16800	0.017	19.2
16860	0.018	19.2
16920	0.017	17.53333333
16980	0.018	17.4
17040	0.018	17.4
17100	0.019	17.46666667
17160	0.018	17.53333333
17220	0.02	17.73333333
17280	0.018	17.8
17340	0.018	17.8
17400	0.018	17.8
17460	0.018	17.86666667
17520	0.019	18
17580	0.017	18
17640	0.018	18.06666667
17700	0.018	18.13333333
17760	0.017	18.06666667
17820	0.017	18.06666667
17880	0.017	18
17940	0.017	17.93333333
18000	0.017	17.8
18060	0.017	17.73333333
18120	0.017	17.53333333
18180	0.017	17.46666667
18240	0.017	17.4
18300	0.018	17.4
18360	0.018	17.4
18420	0.018	17.33333333
18480	0.018	17.4
18540	0.018	17.4

18600	0.019	17.46666667
18660	0.02	17.66666667
18720	0.019	17.8
18780	0.019	17.93333333
18840	0.02	18.13333333
18900	0.02	18.33333333
18960	0.021	18.6
19020	0.019	18.73333333
19080	0.019	18.86666667
19140	0.02	19.06666667
19200	0.02	19.2
19260	0.02	19.33333333
19320	0.019	19.4
19380	0.019	19.46666667
19440	0.019	19.53333333
19500	0.019	19.53333333
19560	0.02	19.53333333
19620	0.019	19.53333333
19680	0.019	19.53333333
19740	0.02	19.53333333
19800	0.019	19.46666667
19860	0.021	19.46666667
19920	0.019	19.46666667
19980	0.021	19.6
20040	0.02	19.6
20100	0.019	19.53333333
20160	0.019	19.46666667
20220	0.02	19.53333333
20280	0.02	19.6
20340	0.021	19.73333333
20400	0.02	19.8
20460	0.02	19.8
20520	0.019	19.8
20580	0.019	19.8
20640	0.02	19.8
20700	0.019	19.8
20760	0.019	19.66666667
20820	0.02	19.73333333
20880	0.02	19.66666667
20940	0.02	19.66666667
21000	0.02	19.73333333
21060	0.02	19.8
21120	0.02	19.8
21180	0.02	19.8
21240	0.02	19.73333333
21300	0.019	19.66666667
21360	0.022	19.8

21420	0.03	20.53333333
21480	0.02	20.6
21540	0.019	20.53333333
21600	0.019	20.53333333
21660	0.02	20.6
21720	0.02	20.6
21780	0.02	20.6
21840	0.02	20.6
21900	0.021	20.66666667
21960	0.029	21.26666667
22020	0.021	21.33333333
22080	0.02	21.33333333
22140	0.021	21.4
22200	0.02	21.46666667
22260	0.02	21.33333333
22320	0.02	20.66666667
22380	0.021	20.73333333
22440	0.02	20.8
22500	0.02	20.86666667
22560	0.02	20.86666667
22620	0.02	20.86666667
22680	0.02	20.86666667
22740	0.02	20.86666667
22800	0.028	21.33333333
22860	0.021	20.8
23022	0	19.4
23040	0.022	19.53333333
23100	0.049	21.4
23160	0.022	21.53333333
23220	0.315	41.2
23280	0.021	41.26666667
23340	0.021	41.26666667
23400	0.023	41.46666667
23460	0.079	45.4
23520	0.099	50.66666667
23580	0.144	58.93333333
23640	0.078	62.8
23700	0.036	63.86666667
23760	0.083	67.53333333
23820	0.066	70.53333333
23880	0.036	72.93333333
23940	0.059	75.4
24000	0.087	77.93333333
24060	0.109	83.73333333
24120	0.046	65.8
24180	0.026	66.13333333
24240	0.027	66.53333333

24300	0.034	67.26666667
24360	0.022	63.46666667
24420	0.034	59.13333333
24480	0.073	54.4
24540	0.046	52.26666667
24600	0.095	56.2
24660	0.066	55.06666667
24720	0.024	52.26666667
24780	0.032	52
24840	0.042	50.86666667
24900	0.087	50.86666667
24960	0.03	45.6
25020	0.027	44.33333333
25080	0.301	62.66666667
33422	0	60.86666667
33480	0.027	60.4
33540	0.023	60.46666667
33600	0.02	59.53333333
33660	0.021	56.06666667
33720	0.022	54.46666667
33780	0.02	49.46666667
33840	0.02	46.4
33900	0.02	46.13333333
33960	0.021	45.4
34020	0.021	44
34080	0.021	39.6
34140	0.022	39.06666667
34200	0.025	38.93333333
34260	0.023	20.4

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_039
Test Start Time	7:38:15 AM
Test Start Date	7/29/2020
Test Length [D:H:M]	0:23:08
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.02
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.07
Mass TWA [mg/m3]	0.016
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	396

Max Instant Conc.	Max 15 min TWA Conc.
70	33.66666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.025			
120	0.025			
180	0.025			
240	0.025			
300	0.023			
360	0.022			
420	0.023			
480	0.027			
540	0.025			
600	0.029			
660	0.048			
720	0.045			
780	0.03			
840	0.03			
900	0.026			28.53333333
960	0.03			28.86666667
1020	0.023			28.73333333
1080	0.021			28.46666667
1140	0.021			28.2
1200	0.07			31.33333333
1260	0.051			33.26666667
1320	0.029			33.66666667
1380	0.02			33.2
1440	0.02			32.86666667
1500	0.019			32.2
1560	0.018			30.2
1620	0.018			28.4

1680	0.018	27.6
1740	0.019	26.86666667
1800	0.018	26.33333333
1860	0.034	26.6
1920	0.019	26.33333333
1980	0.019	26.2
2040	0.018	26
2100	0.017	22.46666667
2160	0.017	20.2
2220	0.017	19.4
2280	0.017	19.2
2340	0.017	19
2400	0.017	18.86666667
2460	0.017	18.8
2520	0.017	18.73333333
2580	0.018	18.73333333
2640	0.017	18.6
2700	0.021	18.8
2760	0.022	18
2820	0.019	18
2880	0.017	17.86666667
2940	0.017	17.8
3000	0.017	17.8
3060	0.017	17.8
3120	0.018	17.86666667
3180	0.019	18
3240	0.021	18.26666667
3300	0.02	18.46666667
3360	0.02	18.66666667
3420	0.018	18.73333333
3480	0.018	18.73333333
3540	0.018	18.8
3600	0.018	18.6
3660	0.018	18.33333333
3720	0.018	18.26666667
3780	0.018	18.33333333
3840	0.019	18.46666667
3900	0.019	18.6
3960	0.021	18.86666667
4020	0.018	18.86666667
4080	0.017	18.73333333
4140	0.019	18.6
4200	0.019	18.53333333
4260	0.019	18.46666667
4320	0.019	18.53333333
4380	0.02	18.66666667
4440	0.02	18.8

4500	0.019	18.86666667
4560	0.018	18.86666667
4620	0.018	18.86666667
4680	0.018	18.86666667
4740	0.019	18.86666667
4800	0.021	19
4860	0.022	19.06666667
4920	0.02	19.2
4980	0.019	19.33333333
5040	0.019	19.33333333
5100	0.019	19.33333333
5160	0.02	19.4
5220	0.023	19.66666667
5280	0.019	19.6
5340	0.019	19.53333333
5400	0.018	19.46666667
5460	0.018	19.46666667
5520	0.018	19.46666667
5580	0.018	19.46666667
5640	0.018	19.4
5700	0.018	19.2
5760	0.018	18.93333333
5820	0.019	18.86666667
5880	0.019	18.86666667
5940	0.028	19.46666667
6000	0.02	19.53333333
6060	0.02	19.53333333
6120	0.018	19.2
6180	0.019	19.2
6240	0.018	19.13333333
6300	0.018	19.13333333
6360	0.02	19.26666667
6420	0.018	19.26666667
6480	0.018	19.26666667
6540	0.017	19.2
6600	0.017	19.13333333
6660	0.017	19.06666667
6720	0.018	19
6780	0.019	19
6840	0.018	18.33333333
6900	0.019	18.26666667
6960	0.019	18.2
7020	0.018	18.2
7080	0.018	18.13333333
7140	0.018	18.13333333
7200	0.018	18.13333333
7260	0.018	18

7320	0.019	18.06666667
7380	0.019	18.13333333
7440	0.018	18.2
7500	0.018	18.26666667
7560	0.018	18.33333333
7620	0.018	18.33333333
7680	0.018	18.26666667
7740	0.018	18.26666667
7800	0.018	18.2
7860	0.019	18.2
7920	0.019	18.26666667
7980	0.019	18.33333333
8040	0.019	18.4
8100	0.019	18.46666667
8160	0.019	18.53333333
8220	0.018	18.46666667
8280	0.021	18.6
8340	0.018	18.6
8400	0.018	18.6
8460	0.019	18.66666667
8520	0.018	18.66666667
8580	0.018	18.66666667
8640	0.018	18.66666667
8700	0.018	18.66666667
8760	0.019	18.66666667
8820	0.024	19
8880	0.019	19
8940	0.018	18.93333333
9000	0.018	18.86666667
9060	0.018	18.8
9120	0.018	18.8
9180	0.018	18.6
9240	0.018	18.6
9300	0.017	18.53333333
9360	0.018	18.46666667
9420	0.018	18.46666667
9480	0.017	18.4
9540	0.017	18.33333333
9600	0.017	18.26666667
9660	0.017	18.13333333
9720	0.018	17.73333333
9780	0.02	17.8
9840	0.024	18.2
9900	0.017	18.13333333
9960	0.018	18.13333333
10020	0.018	18.13333333
10080	0.017	18.06666667

10140	0.017	18
10200	0.017	18
10260	0.017	17.93333333
10320	0.016	17.8
10380	0.015	17.66666667
10440	0.016	17.6
10500	0.015	17.46666667
10560	0.015	17.33333333
10620	0.015	17.13333333
10680	0.016	16.86666667
10740	0.021	16.66666667
10800	0.018	16.73333333
10860	0.017	16.66666667
10920	0.019	16.73333333
10980	0.018	16.8
11040	0.016	16.73333333
11100	0.016	16.66666667
11160	0.015	16.53333333
11220	0.015	16.46666667
11280	0.015	16.46666667
11340	0.016	16.46666667
11400	0.016	16.53333333
11460	0.017	16.66666667
11520	0.017	16.8
11580	0.017	16.86666667
11640	0.029	17.4
11700	0.023	17.73333333
11760	0.017	17.73333333
11820	0.021	17.86666667
11880	0.017	17.8
11940	0.017	17.86666667
12000	0.017	17.93333333
12060	0.017	18.06666667
12120	0.016	18.13333333
12180	0.017	18.26666667
12240	0.021	18.6
12300	0.017	18.66666667
12360	0.017	18.66666667
12420	0.016	18.6
12480	0.016	18.53333333
12540	0.017	17.73333333
12600	0.017	17.33333333
12660	0.016	17.26666667
12720	0.017	17
12780	0.016	16.93333333
12840	0.018	17
12900	0.018	17.06666667

12960	0.018	17.13333333
13020	0.017	17.2
13080	0.017	17.2
13140	0.018	17
13200	0.018	17.06666667
13260	0.017	17.06666667
13320	0.016	17.06666667
13380	0.017	17.13333333
13440	0.016	17.06666667
13500	0.017	17.06666667
13560	0.016	17.06666667
13620	0.017	17.06666667
13680	0.016	17.06666667
13740	0.016	16.93333333
13800	0.017	16.86666667
13860	0.016	16.73333333
13920	0.017	16.73333333
13980	0.016	16.66666667
14040	0.016	16.53333333
14100	0.017	16.46666667
14160	0.018	16.53333333
14220	0.016	16.53333333
14280	0.016	16.46666667
14340	0.016	16.46666667
14400	0.016	16.4
14460	0.016	16.4
14520	0.017	16.4
14580	0.017	16.46666667
14640	0.017	16.53333333
14700	0.018	16.6
14760	0.018	16.73333333
14820	0.018	16.8
14880	0.018	16.93333333
14940	0.018	17.06666667
15000	0.018	17.13333333
15060	0.018	17.13333333
15120	0.018	17.26666667
15180	0.018	17.4
15240	0.019	17.6
15300	0.02	17.86666667
15360	0.019	18.06666667
15420	0.019	18.2
15480	0.019	18.33333333
15540	0.019	18.46666667
15600	0.022	18.73333333
15660	0.019	18.8
15720	0.019	18.86666667

15780	0.019	18.93333333
15840	0.019	19
15900	0.019	19.06666667
15960	0.018	19.06666667
16020	0.019	19.13333333
16080	0.028	19.8
16140	0.018	19.73333333
16200	0.017	19.53333333
16260	0.018	19.46666667
16320	0.018	19.4
16380	0.018	19.33333333
16440	0.018	19.26666667
16500	0.02	19.13333333
16560	0.017	19
16620	0.017	18.86666667
16680	0.017	18.73333333
16740	0.02	18.8
16800	0.017	18.66666667
16860	0.017	18.6
16920	0.016	18.4
16980	0.017	17.66666667
17040	0.017	17.6
17100	0.016	17.53333333
17160	0.016	17.4
17220	0.017	17.33333333
17280	0.016	17.2
17340	0.017	17.13333333
17400	0.017	16.93333333
17460	0.016	16.86666667
17520	0.017	16.86666667
17580	0.017	16.86666667
17640	0.016	16.6
17700	0.02	16.8
17760	0.016	16.73333333
17820	0.017	16.8
17880	0.018	16.86666667
17940	0.018	16.93333333
18000	0.017	17
18060	0.017	17.06666667
18120	0.017	17.06666667
18180	0.018	17.2
18240	0.018	17.26666667
18300	0.019	17.4
18360	0.019	17.6
18420	0.018	17.66666667
18480	0.02	17.86666667
18540	0.022	18.26666667

18600	0.018	18.13333333
18660	0.018	18.26666667
18720	0.02	18.46666667
18780	0.018	18.46666667
18840	0.02	18.6
18900	0.019	18.73333333
18960	0.02	18.93333333
19020	0.019	19.06666667
19080	0.018	19.06666667
19140	0.024	19.46666667
19200	0.028	20.06666667
19260	0.046	21.86666667
19320	0.019	21.93333333
19380	0.034	22.86666667
19440	0.036	23.8
19500	0.02	23.93333333
19560	0.019	24
19620	0.018	23.86666667
19680	0.021	24.06666667
19740	0.019	24
19800	0.018	23.93333333
19860	0.018	23.8
19920	0.019	23.8
19980	0.018	23.8
20040	0.019	23.46666667
20100	0.018	22.8
20160	0.019	21
20220	0.02	21.06666667
20280	0.02	20.13333333
20340	0.022	19.2
20400	0.021	19.26666667
20460	0.024	19.6
20520	0.02	19.73333333
20580	0.019	19.6
20640	0.022	19.8
20700	0.022	20.06666667
20760	0.02	20.2
20820	0.021	20.33333333
20880	0.023	20.66666667
20940	0.021	20.8
21000	0.023	21.13333333
21060	0.022	21.33333333
21120	0.02	21.33333333
21180	0.02	21.33333333
21240	0.02	21.2
21300	0.021	21.2
21360	0.022	21.06666667

21420	0.021	21.13333333
21480	0.023	21.4
21540	0.026	21.66666667
21600	0.024	21.8
21660	0.022	21.93333333
21720	0.022	22
21780	0.024	22.06666667
21840	0.023	22.2
21900	0.022	22.13333333
21960	0.02	22
22020	0.022	22.13333333
22080	0.023	22.33333333
22140	0.022	22.46666667
22200	0.023	22.6
22260	0.023	22.66666667
22320	0.023	22.8
22380	0.025	22.93333333
22440	0.023	22.73333333
22500	0.022	22.6
22560	0.022	22.6
22620	0.022	22.6
22680	0.024	22.6
22740	0.023	22.6
22800	0.022	22.6
22860	0.022	22.73333333
22920	0.023	22.8
22980	0.023	22.8
23040	0.026	23.06666667
23100	0.022	23
23160	0.021	22.86666667
23220	0.023	22.86666667
23280	0.022	22.66666667
23340	0.021	22.53333333
23400	0.025	22.73333333
23460	0.023	22.8
23520	0.022	22.8
23580	0.022	22.66666667
23640	0.022	22.6
83279	0	21.13333333
83280	0.058	23.53333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_040
Test Start Time	6:50:05 AM
Test Start Date	7/30/2020
Test Length [D:H:M]	0:07:46
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.017
Mass Maximum [mg/m3]	0.053
Mass TWA [mg/m3]	0.021
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	466

Max Instant Conc.	Max 15 min TWA Conc.
53	35.26666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.039			
120	0.04			
180	0.041			
240	0.039			
300	0.038			
360	0.037			
420	0.036			
480	0.035			
540	0.034			
600	0.033			
660	0.032			
720	0.032			
780	0.031			
840	0.031			
900	0.031			35.26666667
960	0.031			34.73333333
1020	0.031			34.13333333
1080	0.03			33.4
1140	0.03			32.8
1200	0.029			32.2
1260	0.029			31.66666667
1320	0.028			31.13333333
1380	0.027			30.6
1440	0.027			30.13333333
1500	0.027			29.73333333
1560	0.028			29.46666667
1620	0.027			29.13333333

1680	0.027	28.86666667
1740	0.027	28.6
1800	0.028	28.4
1860	0.028	28.2
1920	0.028	28
1980	0.027	27.8
2040	0.027	27.6
2100	0.026	27.4
2160	0.026	27.2
2220	0.025	27
2280	0.025	26.86666667
2340	0.025	26.73333333
2400	0.025	26.6
2460	0.025	26.4
2520	0.026	26.33333333
2580	0.025	26.2
2640	0.025	26.06666667
2700	0.025	25.86666667
2760	0.024	25.6
2820	0.024	25.33333333
2880	0.024	25.13333333
2940	0.023	24.86666667
3000	0.022	24.6
3060	0.022	24.33333333
3120	0.026	24.4
3180	0.024	24.33333333
3240	0.023	24.2
3300	0.023	24.06666667
3360	0.023	23.93333333
3420	0.023	23.73333333
3480	0.023	23.6
3540	0.022	23.4
3600	0.022	23.2
3660	0.021	23
3720	0.02	22.73333333
3780	0.02	22.46666667
3840	0.02	22.26666667
3900	0.02	22.13333333
3960	0.021	22.06666667
4020	0.021	21.73333333
4080	0.021	21.53333333
4140	0.02	21.33333333
4200	0.02	21.13333333
4260	0.02	20.93333333
4320	0.02	20.73333333
4380	0.02	20.53333333
4440	0.02	20.4

4500	0.02	20.26666667
4560	0.02	20.2
4620	0.02	20.2
4680	0.02	20.2
4740	0.02	20.2
4800	0.021	20.26666667
4860	0.02	20.2
4920	0.02	20.13333333
4980	0.02	20.06666667
5040	0.02	20.06666667
5100	0.02	20.06666667
5160	0.02	20.06666667
5220	0.02	20.06666667
5280	0.02	20.06666667
5340	0.02	20.06666667
5400	0.02	20.06666667
5460	0.02	20.06666667
5520	0.02	20.06666667
5580	0.02	20.06666667
5640	0.02	20.06666667
5700	0.02	20
5760	0.023	20.2
5820	0.02	20.2
5880	0.024	20.46666667
5940	0.019	20.4
6000	0.02	20.4
6060	0.02	20.4
6120	0.021	20.46666667
6180	0.019	20.4
6240	0.021	20.46666667
6300	0.018	20.33333333
6360	0.019	20.26666667
6420	0.019	20.2
6480	0.018	20.06666667
6540	0.019	20
6600	0.018	19.86666667
6660	0.019	19.6
6720	0.018	19.46666667
6780	0.019	19.13333333
6840	0.02	19.2
6900	0.021	19.26666667
6960	0.018	19.13333333
7020	0.018	18.93333333
7080	0.018	18.86666667
7140	0.018	18.66666667
7200	0.018	18.66666667
7260	0.018	18.6

7320	0.018	18.53333333
7380	0.017	18.46666667
7440	0.018	18.4
7500	0.017	18.33333333
7560	0.017	18.2
7620	0.018	18.2
7680	0.018	18.13333333
7740	0.017	17.93333333
7800	0.018	17.73333333
7860	0.018	17.73333333
7920	0.018	17.73333333
7980	0.018	17.73333333
8040	0.018	17.73333333
8100	0.018	17.73333333
8160	0.018	17.73333333
8220	0.019	17.8
8280	0.019	17.93333333
8340	0.019	18
8400	0.019	18.13333333
8460	0.018	18.2
8520	0.018	18.2
8580	0.017	18.13333333
8640	0.018	18.2
8700	0.017	18.13333333
8760	0.017	18.06666667
8820	0.017	18
8880	0.018	18
8940	0.018	18
9000	0.017	17.93333333
9060	0.017	17.86666667
9120	0.017	17.73333333
9180	0.017	17.6
9240	0.017	17.46666667
9300	0.017	17.33333333
9360	0.02	17.46666667
9420	0.018	17.46666667
9480	0.018	17.53333333
9540	0.018	17.53333333
9600	0.018	17.6
9660	0.02	17.8
9720	0.024	18.26666667
9780	0.018	18.26666667
9840	0.019	18.33333333
9900	0.019	18.46666667
9960	0.019	18.6
10020	0.02	18.8
10080	0.019	18.93333333

10140	0.019	19.06666667
10200	0.019	19.2
10260	0.019	19.13333333
10320	0.019	19.2
10380	0.019	19.26666667
10440	0.019	19.33333333
10500	0.019	19.4
10560	0.019	19.33333333
10620	0.019	19
10680	0.019	19.06666667
10740	0.019	19.06666667
10800	0.019	19.06666667
10860	0.019	19.06666667
10920	0.019	19
10980	0.019	19
11040	0.019	19
11100	0.019	19
11160	0.019	19
11220	0.019	19
11280	0.02	19.06666667
11340	0.019	19.06666667
11400	0.02	19.13333333
11460	0.02	19.2
11520	0.02	19.26666667
11580	0.02	19.33333333
11640	0.021	19.46666667
11700	0.02	19.53333333
11760	0.02	19.6
11820	0.02	19.66666667
11880	0.02	19.73333333
11940	0.02	19.8
12000	0.022	20
12060	0.021	20.13333333
12120	0.02	20.2
12180	0.022	20.33333333
12240	0.023	20.6
12300	0.021	20.66666667
12360	0.021	20.73333333
12420	0.021	20.8
12480	0.021	20.86666667
12540	0.022	20.93333333
12600	0.022	21.06666667
12660	0.022	21.2
12720	0.021	21.26666667
12780	0.023	21.46666667
12840	0.022	21.6
12900	0.022	21.6

12960	0.022	21.66666667
13020	0.021	21.73333333
13080	0.021	21.66666667
13140	0.021	21.53333333
13200	0.032	22.26666667
13260	0.043	23.73333333
13320	0.022	23.8
13380	0.021	23.8
13440	0.023	23.86666667
13500	0.021	23.8
13560	0.021	23.73333333
13620	0.021	23.73333333
13680	0.021	23.6
13740	0.022	23.6
13800	0.021	23.53333333
13860	0.021	23.46666667
13920	0.021	23.46666667
13980	0.021	23.46666667
14040	0.024	23.66666667
14100	0.029	23.46666667
14160	0.021	22
14220	0.021	21.93333333
14280	0.021	21.93333333
14340	0.022	21.86666667
14400	0.021	21.86666667
14460	0.021	21.86666667
14520	0.021	21.86666667
14580	0.021	21.86666667
14640	0.023	21.93333333
14700	0.021	21.93333333
14760	0.021	21.93333333
14820	0.021	21.93333333
14880	0.021	21.93333333
14940	0.021	21.73333333
15000	0.021	21.2
15060	0.021	21.2
15120	0.021	21.2
15180	0.022	21.26666667
15240	0.021	21.2
15300	0.021	21.2
15360	0.021	21.2
15420	0.021	21.2
15480	0.021	21.2
15540	0.021	21.06666667
15600	0.02	21
15660	0.02	20.93333333
15720	0.021	20.93333333

15780	0.021	20.93333333
15840	0.02	20.86666667
15900	0.02	20.8
15960	0.02	20.73333333
16020	0.02	20.66666667
16080	0.02	20.53333333
16140	0.019	20.4
16200	0.019	20.26666667
16260	0.019	20.13333333
16320	0.02	20.06666667
16380	0.02	20
16440	0.02	19.93333333
16500	0.02	19.93333333
16560	0.02	19.93333333
16620	0.02	19.86666667
16680	0.021	19.86666667
16740	0.021	19.93333333
16800	0.02	19.93333333
16860	0.02	19.93333333
16920	0.02	19.93333333
16980	0.022	20.06666667
17040	0.021	20.2
17100	0.02	20.26666667
17160	0.02	20.33333333
17220	0.021	20.4
17280	0.021	20.46666667
17340	0.021	20.53333333
17400	0.02	20.53333333
17460	0.021	20.6
17520	0.02	20.6
17580	0.02	20.53333333
17640	0.022	20.6
17700	0.02	20.6
17760	0.021	20.66666667
17820	0.02	20.66666667
17880	0.02	20.53333333
17940	0.02	20.46666667
18000	0.02	20.46666667
18060	0.02	20.46666667
18120	0.02	20.4
18180	0.02	20.33333333
18240	0.019	20.2
18300	0.019	20.13333333
18360	0.02	20.06666667
18420	0.02	20.06666667
18480	0.019	20
18540	0.018	19.73333333

18600	0.018	19.6
18660	0.018	19.4
18720	0.018	19.26666667
18780	0.019	19.2
18840	0.018	19.06666667
18900	0.019	19
18960	0.018	18.86666667
19020	0.019	18.8
19080	0.023	19
19140	0.02	19.06666667
19200	0.019	19.06666667
19260	0.019	19
19320	0.019	18.93333333
19380	0.019	18.93333333
19440	0.019	19
19500	0.02	19.13333333
19560	0.02	19.26666667
19620	0.019	19.33333333
19680	0.02	19.4
19740	0.02	19.53333333
19800	0.019	19.53333333
19860	0.019	19.6
19920	0.019	19.6
19980	0.018	19.26666667
20040	0.019	19.2
20100	0.019	19.2
20160	0.018	19.13333333
20220	0.018	19.06666667
20280	0.018	19
20340	0.019	19
20400	0.019	18.93333333
20460	0.019	18.86666667
20520	0.021	19
20580	0.02	19
20640	0.02	19
20700	0.021	19.13333333
20760	0.02	19.2
20820	0.02	19.26666667
20880	0.022	19.53333333
20940	0.024	19.86666667
21000	0.039	21.2
21060	0.024	21.6
21120	0.024	22
21180	0.026	22.53333333
21240	0.036	23.66666667
21300	0.026	24.13333333
21360	0.02	24.2

21420	0.022	24.26666667
21480	0.02	24.26666667
21540	0.021	24.33333333
21600	0.022	24.4
21660	0.02	24.4
21720	0.021	24.46666667
21780	0.021	24.4
21840	0.021	24.2
21900	0.021	23
21960	0.022	22.86666667
22020	0.026	23
22080	0.022	22.73333333
22140	0.022	21.8
22200	0.022	21.53333333
22260	0.023	21.73333333
22320	0.022	21.73333333
22380	0.022	21.86666667
22440	0.023	22
22500	0.021	21.93333333
22560	0.024	22.2
22620	0.027	22.6
22680	0.032	23.33333333
22740	0.027	23.73333333
22800	0.023	23.86666667
22860	0.021	23.8
22920	0.034	24.33333333
22980	0.027	24.66666667
23040	0.022	24.66666667
23100	0.022	24.66666667
23160	0.022	24.6
23220	0.022	24.6
23280	0.031	25.2
23340	0.022	25.13333333
23400	0.022	25.2
23460	0.023	25.13333333
23520	0.023	24.86666667
23580	0.023	24.26666667
23640	0.024	24.06666667
23700	0.026	24.26666667
23760	0.053	26.4
23820	0.026	25.86666667
23880	0.024	25.66666667
23940	0.022	25.66666667
24000	0.023	25.73333333
24060	0.026	26
24120	0.024	26.13333333
24180	0.023	25.6

24240	0.022	25.6
24300	0.022	25.6
24360	0.023	25.6
24420	0.022	25.53333333
24480	0.022	25.46666667
24540	0.022	25.33333333
24600	0.023	25.13333333
24660	0.023	23.13333333
24720	0.023	22.93333333
24780	0.023	22.86666667
24840	0.022	22.86666667
24900	0.023	22.86666667
24960	0.022	22.6
25020	0.022	22.46666667
25080	0.022	22.4
25140	0.023	22.46666667
25200	0.023	22.53333333
25260	0.023	22.53333333
25320	0.022	22.53333333
25380	0.024	22.66666667
25440	0.023	22.73333333
25500	0.022	22.66666667
25560	0.021	22.53333333
25620	0.022	22.46666667
25680	0.022	22.4
25740	0.022	22.4
25800	0.022	22.33333333
25860	0.022	22.33333333
25920	0.022	22.33333333
25980	0.022	22.33333333
26040	0.023	22.33333333
26100	0.022	22.26666667
26160	0.021	22.13333333
26220	0.021	22.06666667
26280	0.023	22
26340	0.022	21.93333333
26400	0.023	22
26460	0.022	22.06666667
26520	0.025	22.26666667
26580	0.023	22.33333333
26640	0.021	22.26666667
26700	0.021	22.2
26760	0.021	22.13333333
26820	0.021	22.06666667
26880	0.021	22
26940	0.024	22.06666667
27000	0.022	22.06666667

27060	0.022	22.13333333
27120	0.021	22.13333333
27180	0.022	22.06666667
27240	0.021	22
27300	0.021	21.86666667
27360	0.021	21.8
27420	0.021	21.53333333
27480	0.021	21.4
27540	0.021	21.4
27600	0.021	21.4
27660	0.021	21.4
27720	0.021	21.4
27780	0.02	21.33333333
27840	0.02	21.06666667
27900	0.02	20.93333333
27960	0.02	20.8

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_041
Test Start Time	9:57:02 AM
Test Start Date	7/31/2020
Test Length [D:H:M]	0:02:27
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.025
Mass Minimum [mg/m3]	0.021
Mass Maximum [mg/m3]	0.055
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	147

Max Instant Conc.	Max 15 min TWA Conc.
55	30.73333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.031			
120	0.027			
180	0.027			
240	0.026			
300	0.026			
360	0.027			
420	0.026			
480	0.026			
540	0.027			
600	0.026			
660	0.027			
720	0.04			
780	0.028			
840	0.027			
900	0.027			27.86666667
960	0.027			27.6
1020	0.027			27.6
1080	0.027			27.6
1140	0.027			27.66666667
1200	0.027			27.73333333
1260	0.027			27.73333333
1320	0.026			27.73333333
1380	0.026			27.73333333
1440	0.029			27.86666667
1500	0.033			28.33333333
1560	0.033			28.73333333
1620	0.03			28.06666667

1680	0.028	28.06666667
1740	0.027	28.06666667
1800	0.027	28.06666667
1860	0.027	28.06666667
1920	0.027	28.06666667
1980	0.028	28.13333333
2040	0.028	28.2
2100	0.028	28.26666667
2160	0.028	28.33333333
2220	0.028	28.46666667
2280	0.028	28.6
2340	0.037	29.13333333
2400	0.035	29.26666667
2460	0.055	30.73333333
2520	0.028	30.6
2580	0.028	30.6
2640	0.029	30.73333333
2700	0.027	30.73333333
2760	0.027	30.73333333
2820	0.026	30.66666667
2880	0.026	30.53333333
2940	0.026	30.4
3000	0.027	30.33333333
3060	0.026	30.2
3120	0.026	30.06666667
3180	0.026	29.93333333
3240	0.026	29.2
3300	0.026	28.6
3360	0.025	26.6
3420	0.026	26.46666667
3480	0.026	26.33333333
3540	0.026	26.13333333
3600	0.026	26.06666667
3660	0.025	25.93333333
3720	0.026	25.93333333
3780	0.026	25.93333333
3840	0.026	25.93333333
3900	0.025	25.8
3960	0.025	25.73333333
4020	0.025	25.66666667
4080	0.024	25.53333333
4140	0.024	25.4
4200	0.024	25.26666667
4260	0.024	25.2
4320	0.024	25.06666667
4380	0.024	24.93333333
4440	0.024	24.8

4500	0.025	24.73333333
4560	0.026	24.8
4620	0.025	24.73333333
4680	0.025	24.66666667
4740	0.025	24.6
4800	0.025	24.6
4860	0.025	24.6
4920	0.024	24.53333333
4980	0.024	24.53333333
5040	0.024	24.53333333
5100	0.024	24.53333333
5160	0.024	24.53333333
5220	0.024	24.53333333
5280	0.025	24.6
5340	0.024	24.6
5400	0.024	24.53333333
5460	0.024	24.4
5520	0.024	24.33333333
5580	0.023	24.2
5640	0.023	24.06666667
5700	0.023	23.93333333
5760	0.023	23.8
5820	0.023	23.73333333
5880	0.023	23.66666667
5940	0.022	23.53333333
6000	0.022	23.4
6060	0.022	23.26666667
6120	0.023	23.2
6180	0.023	23.06666667
6240	0.024	23.06666667
6300	0.024	23.06666667
6360	0.024	23.06666667
6420	0.024	23.06666667
6480	0.024	23.13333333
6540	0.023	23.13333333
6600	0.024	23.2
6660	0.024	23.26666667
6720	0.023	23.26666667
6780	0.022	23.2
6840	0.022	23.2
6900	0.022	23.2
6960	0.021	23.13333333
7020	0.021	23
7080	0.021	22.86666667
7140	0.022	22.73333333
7200	0.022	22.6
7260	0.023	22.53333333

7320	0.022	22.4
7380	0.022	22.26666667
7440	0.023	22.26666667
7500	0.023	22.2
7560	0.022	22.06666667
7620	0.023	22.06666667
7680	0.023	22.13333333
7740	0.024	22.26666667
7800	0.023	22.33333333
7860	0.022	22.4
7920	0.022	22.46666667
7980	0.022	22.53333333
8040	0.022	22.53333333
8100	0.022	22.53333333
8160	0.021	22.4
8220	0.021	22.33333333
8280	0.021	22.26666667
8340	0.021	22.13333333
8400	0.021	22
8460	0.021	21.93333333
8520	0.021	21.8
8580	0.021	21.66666667
8640	0.021	21.46666667
8700	0.021	21.33333333
8760	0.021	21.26666667
8820	0.021	21.2

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_042
Test Start Time	7:07:21 AM
Test Start Date	8/3/2020
Test Length [D:H:M]	0:07:40
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.01
Mass Minimum [mg/m3]	0.004
Mass Maximum [mg/m3]	0.038
Mass TWA [mg/m3]	0.01
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	460

Max Instant Conc.
38

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.034		Flow Error
120	0.004		Flow Error
180	0.005		
240	0.005		
300	0.006		
360	0.008		
420	0.009		
480	0.009		
540	0.009		
600	0.009		
660	0.008		
720	0.009		
780	0.009		
840	0.008		
900	0.008		
960	0.009		
1020	0.01		
1080	0.01		
1140	0.009		
1200	0.012		
1260	0.009		
1320	0.01		
1380	0.01		
1440	0.01		
1500	0.009		
1560	0.01		
1620	0.009		

1680	0.01
1740	0.011
1800	0.01
1860	0.01
1920	0.011
1980	0.01
2040	0.01
2100	0.01
2160	0.01
2220	0.01
2280	0.011
2340	0.011
2400	0.011
2460	0.011
2520	0.011
2580	0.01
2640	0.011
2700	0.011
2760	0.012
2820	0.012
2880	0.011
2940	0.011
3000	0.011
3060	0.011
3120	0.011
3180	0.011
3240	0.01
3300	0.01
3360	0.01
3420	0.011
3480	0.01
3540	0.011
3600	0.011
3660	0.011
3720	0.011
3780	0.011
3840	0.011
3900	0.01
3960	0.01
4020	0.01
4080	0.01
4140	0.01
4200	0.01
4260	0.01
4320	0.011
4380	0.011
4440	0.011

4500	0.011
4560	0.011
4620	0.011
4680	0.01
4740	0.01
4800	0.01
4860	0.01
4920	0.01
4980	0.009
5040	0.01
5100	0.01
5160	0.01
5220	0.01
5280	0.01
5340	0.01
5400	0.011
5460	0.01
5520	0.01
5580	0.01
5640	0.01
5700	0.01
5760	0.01
5820	0.01
5880	0.009
5940	0.009
6000	0.009
6060	0.009
6120	0.009
6180	0.009
6240	0.009
6300	0.01
6360	0.01
6420	0.01
6480	0.01
6540	0.011
6600	0.011
6660	0.01
6720	0.011
6780	0.011
6840	0.011
6900	0.01
6960	0.01
7020	0.01
7080	0.01
7140	0.009
7200	0.011
7260	0.01

7320	0.009
7380	0.01
7440	0.009
7500	0.009
7560	0.009
7620	0.009
7680	0.009
7740	0.009
7800	0.009
7860	0.009
7920	0.009
7980	0.009
8040	0.009
8100	0.009
8160	0.009
8220	0.009
8280	0.009
8340	0.009
8400	0.009
8460	0.009
8520	0.009
8580	0.009
8640	0.009
8700	0.009
8760	0.009
8820	0.01
8880	0.009
8940	0.009
9000	0.009
9060	0.009
9120	0.009
9180	0.009
9240	0.009
9300	0.009
9360	0.009
9420	0.009
9480	0.009
9540	0.009
9600	0.009
9660	0.009
9720	0.009
9780	0.009
9840	0.009
9900	0.009
9960	0.009
10020	0.009
10080	0.01

10140	0.009
10200	0.009
10260	0.008
10320	0.008
10380	0.008
10440	0.008
10500	0.008
10560	0.009
10620	0.009
10680	0.008
10740	0.01
10800	0.009
10860	0.01
10920	0.009
10980	0.009
11040	0.009
11100	0.009
11160	0.009
11220	0.008
11280	0.008
11340	0.009
11400	0.009
11460	0.01
11520	0.009
11580	0.009
11640	0.009
11700	0.009
11760	0.008
11820	0.009
11880	0.009
11940	0.01
12000	0.01
12060	0.009
12120	0.01
12180	0.009
12240	0.009
12300	0.008
12360	0.008
12420	0.009
12480	0.009
12540	0.009
12600	0.009
12660	0.009
12720	0.009
12780	0.009
12840	0.009
12900	0.009

12960	0.01
13020	0.009
13080	0.009
13140	0.009
13200	0.008
13260	0.008
13320	0.009
13380	0.009
13440	0.009
13500	0.009
13560	0.009
13620	0.009
13680	0.009
13740	0.009
13800	0.01
13860	0.009
13920	0.012
13980	0.011
14040	0.01
14100	0.009
14160	0.01
14220	0.012
14280	0.009
14340	0.009
14400	0.009
14460	0.009
14520	0.009
14580	0.009
14640	0.009
14700	0.009
14760	0.011
14820	0.011
14880	0.009
14940	0.008
15000	0.008
15060	0.009
15120	0.015
15180	0.009
15240	0.009
15300	0.009
15360	0.009
15420	0.009
15480	0.009
15540	0.009
15600	0.009
15660	0.009
15720	0.009

15780	0.009
15840	0.009
15900	0.009
15960	0.009
16020	0.009
16080	0.009
16140	0.009
16200	0.009
16260	0.009
16320	0.009
16380	0.009
16440	0.009
16500	0.009
16560	0.009
16620	0.009
16680	0.009
16740	0.009
16800	0.009
16860	0.009
16920	0.009
16980	0.009
17040	0.009
17100	0.009
17160	0.009
17220	0.009
17280	0.009
17340	0.009
17400	0.009
17460	0.009
17520	0.009
17580	0.009
17640	0.009
17700	0.01
17760	0.01
17820	0.01
17880	0.01
17940	0.009
18000	0.01
18060	0.01
18120	0.01
18180	0.009
18240	0.009
18300	0.01
18360	0.01
18420	0.01
18480	0.01
18540	0.01

18600	0.01
18660	0.01
18720	0.01
18780	0.01
18840	0.01
18900	0.01
18960	0.01
19020	0.01
19080	0.01
19140	0.01
19200	0.011
19260	0.01
19320	0.01
19380	0.01
19440	0.009
19500	0.009
19560	0.009
19620	0.01
19680	0.009
19740	0.009
19800	0.009
19860	0.009
19920	0.009
19980	0.009
20040	0.009
20100	0.009
20160	0.009
20220	0.009
20280	0.009
20340	0.016
20400	0.012
20460	0.01
20520	0.009
20580	0.009
20640	0.009
20700	0.009
20760	0.009
20820	0.009
20880	0.009
20940	0.01
21000	0.009
21060	0.01
21120	0.015
21180	0.009
21240	0.009
21300	0.01
21360	0.01

21420	0.026
21480	0.01
21540	0.016
21600	0.011
21660	0.009
21720	0.013
21780	0.01
21840	0.009
21900	0.009
21960	0.009
22020	0.009
22080	0.009
22140	0.009
22200	0.009
22260	0.009
22320	0.01
22380	0.009
22440	0.009
22500	0.009
22560	0.009
22620	0.03
22680	0.009
22740	0.01
22800	0.009
22860	0.016
22920	0.015
22980	0.031
23040	0.038
23100	0.02
23160	0.01
23220	0.01
23280	0.009
23340	0.01
23400	0.009
23460	0.01
23520	0.009
23580	0.009
23640	0.01
23700	0.009
23760	0.009
23820	0.009
23880	0.009
23940	0.009
24000	0.009
24060	0.009
24120	0.009
24180	0.009

24240	0.009
24300	0.009
24360	0.009
24420	0.009
24480	0.009
24540	0.009
24600	0.016
24660	0.029
24720	0.009
24780	0.018
24840	0.013
24900	0.019
24960	0.023
25020	0.01
25080	0.01
25140	0.03
25200	0.016
25260	0.027
25320	0.013
25380	0.01
25440	0.009
25500	0.009
25560	0.009
25620	0.01
25680	0.01
25740	0.01
25800	0.01
25860	0.01
25920	0.01
25980	0.017
26040	0.01
26100	0.01
26160	0.01
26220	0.01
26280	0.01
26340	0.01
26400	0.011
26460	0.017
26520	0.01
26580	0.01
26640	0.01
26700	0.01
26760	0.01
26820	0.01
26880	0.01
26940	0.011
27000	0.01

27060	0.01
27120	0.01
27180	0.011
27240	0.01
27300	0.01
27360	0.01
27420	0.01
27480	0.01
27540	0.01
27600	0.01

Max 15 min TWA Conc.
16.8
9.333333333
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10.26666667
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10.33333333
10.46666667
11
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10.53333333
10.6
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10.66666667
10.66666667
10.6
10.13333333
10.13333333
10.13333333
10.13333333
10.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_043
Test Start Time	6:45:35 AM
Test Start Date	8/6/2020
Test Length [D:H:M]	0:07:17
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.023
Mass Minimum [mg/m3]	0.016
Mass Maximum [mg/m3]	0.088
Mass TWA [mg/m3]	0.021
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	437

Max Instant Conc.	Max 15 min TWA Conc.
88	34.6

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.027			
120	0.03			
180	0.029			
240	0.029			
300	0.029			
360	0.031			
420	0.031			
480	0.031			
540	0.031			
600	0.031			
660	0.031			
720	0.031			
780	0.031			
840	0.031			
900	0.03			30.2
960	0.03			30.4
1020	0.03			30.4
1080	0.032			30.6
1140	0.032			30.8
1200	0.033			31.06666667
1260	0.032			31.13333333
1320	0.03			31.06666667
1380	0.03			31
1440	0.033			31.13333333
1500	0.03			31.06666667
1560	0.031			31.06666667
1620	0.031			31.06666667

1680	0.031	31.06666667
1740	0.031	31.06666667
1800	0.031	31.13333333
1860	0.031	31.2
1920	0.03	31.2
1980	0.031	31.13333333
2040	0.031	31.06666667
2100	0.032	31
2160	0.032	31
2220	0.031	31.06666667
2280	0.031	31.13333333
2340	0.031	31
2400	0.031	31.06666667
2460	0.031	31.06666667
2520	0.031	31.06666667
2580	0.032	31.13333333
2640	0.032	31.2
2700	0.032	31.26666667
2760	0.032	31.33333333
2820	0.06	33.33333333
2880	0.035	33.6
2940	0.034	33.8
3000	0.036	34.06666667
3060	0.033	34.13333333
3120	0.033	34.26666667
3180	0.033	34.4
3240	0.032	34.46666667
3300	0.032	34.53333333
3360	0.032	34.6
3420	0.031	34.6
3480	0.031	34.53333333
3540	0.031	34.46666667
3600	0.031	34.4
3660	0.03	34.26666667
3720	0.031	32.33333333
3780	0.031	32.06666667
3840	0.031	31.86666667
3900	0.031	31.53333333
3960	0.031	31.4
4020	0.031	31.26666667
4080	0.031	31.13333333
4140	0.03	31
4200	0.03	30.86666667
4260	0.03	30.73333333
4320	0.03	30.66666667
4380	0.031	30.66666667
4440	0.031	30.66666667

4500	0.031	30.66666667
4560	0.031	30.73333333
4620	0.031	30.73333333
4680	0.03	30.66666667
4740	0.029	30.53333333
4800	0.03	30.46666667
4860	0.029	30.33333333
4920	0.029	30.2
4980	0.029	30.06666667
5040	0.029	30
5100	0.028	29.86666667
5160	0.028	29.73333333
5220	0.029	29.66666667
5280	0.029	29.53333333
5340	0.028	29.33333333
5400	0.028	29.13333333
5460	0.028	28.93333333
5520	0.029	28.8
5580	0.029	28.73333333
5640	0.029	28.73333333
5700	0.029	28.66666667
5760	0.03	28.73333333
5820	0.03	28.8
5880	0.029	28.8
5940	0.029	28.8
6000	0.029	28.86666667
6060	0.028	28.86666667
6120	0.028	28.8
6180	0.028	28.73333333
6240	0.028	28.73333333
6300	0.029	28.8
6360	0.029	28.86666667
6420	0.029	28.86666667
6480	0.029	28.86666667
6540	0.029	28.86666667
6600	0.029	28.86666667
6660	0.028	28.73333333
6720	0.028	28.6
6780	0.028	28.53333333
6840	0.027	28.4
6900	0.026	28.2
6960	0.027	28.13333333
7020	0.027	28.06666667
7080	0.027	28
7140	0.027	27.93333333
7200	0.028	27.86666667
7260	0.027	27.73333333

7320	0.027	27.6
7380	0.028	27.53333333
7440	0.028	27.46666667
7500	0.029	27.46666667
7560	0.029	27.53333333
7620	0.029	27.6
7680	0.028	27.6
7740	0.028	27.66666667
7800	0.027	27.73333333
7860	0.028	27.8
7920	0.028	27.86666667
7980	0.041	28.8
8040	0.028	28.86666667
8100	0.027	28.8
8160	0.027	28.8
8220	0.027	28.8
8280	0.026	28.66666667
8340	0.027	28.6
8400	0.027	28.46666667
8460	0.026	28.26666667
8520	0.026	28.06666667
8580	0.026	27.93333333
8640	0.027	27.86666667
8700	0.027	27.86666667
8760	0.027	27.8
8820	0.026	27.66666667
8880	0.024	26.53333333
8940	0.024	26.26666667
9000	0.023	26
9060	0.022	25.66666667
9120	0.021	25.26666667
9180	0.021	24.93333333
9240	0.023	24.66666667
9300	0.02	24.2
9360	0.021	23.86666667
9420	0.02	23.46666667
9480	0.02	23.06666667
9540	0.019	22.53333333
9600	0.02	22.06666667
9660	0.021	21.66666667
9720	0.021	21.33333333
9780	0.02	21.06666667
9840	0.02	20.8
9900	0.021	20.66666667
9960	0.02	20.53333333
10020	0.022	20.6
10080	0.02	20.53333333

10140	0.02	20.33333333
10200	0.02	20.33333333
10260	0.019	20.2
10320	0.019	20.13333333
10380	0.019	20.06666667
10440	0.018	20
10500	0.019	19.93333333
10560	0.018	19.73333333
10620	0.018	19.53333333
10680	0.019	19.46666667
10740	0.018	19.33333333
10800	0.019	19.2
10860	0.018	19.06666667
10920	0.018	18.8
10980	0.02	18.8
11040	0.02	18.8
11100	0.019	18.73333333
11160	0.019	18.73333333
11220	0.018	18.66666667
11280	0.019	18.66666667
11340	0.018	18.66666667
11400	0.02	18.73333333
11460	0.021	18.93333333
11520	0.025	19.4
11580	0.024	19.73333333
11640	0.021	19.93333333
11700	0.024	20.26666667
11760	0.021	20.46666667
11820	0.021	20.66666667
11880	0.02	20.66666667
11940	0.022	20.8
12000	0.027	21.33333333
12060	0.026	21.8
12120	0.027	22.4
12180	0.02	22.46666667
12240	0.02	22.6
12300	0.02	22.6
12360	0.02	22.53333333
12420	0.02	22.2
12480	0.019	21.86666667
12540	0.02	21.8
12600	0.019	21.46666667
12660	0.019	21.33333333
12720	0.019	21.2
12780	0.018	21.06666667
12840	0.017	20.73333333
12900	0.017	20.06666667

12960	0.017	19.46666667
13020	0.017	18.8
13080	0.018	18.66666667
13140	0.017	18.46666667
13200	0.018	18.33333333
13260	0.017	18.13333333
13320	0.04	19.46666667
13380	0.022	19.66666667
13440	0.022	19.8
13500	0.022	20
13560	0.019	20
13620	0.033	20.93333333
13680	0.026	21.46666667
13740	0.019	21.6
13800	0.017	21.6
13860	0.018	21.66666667
13920	0.018	21.73333333
13980	0.018	21.73333333
14040	0.018	21.8
14100	0.018	21.8
14160	0.018	21.86666667
14220	0.018	20.4
14280	0.023	20.46666667
14340	0.042	21.8
14400	0.021	21.73333333
14460	0.088	26.33333333
14520	0.054	27.73333333
14580	0.023	27.53333333
14640	0.019	27.53333333
14700	0.018	27.6
14760	0.018	27.6
14820	0.018	27.6
14880	0.018	27.6
14940	0.018	27.6
15000	0.018	27.6
15060	0.018	27.6
15120	0.018	27.6
15180	0.019	27.33333333
15240	0.018	25.73333333
15300	0.018	25.53333333
15360	0.018	20.86666667
15420	0.018	18.46666667
15480	0.018	18.13333333
15540	0.017	18
15600	0.017	17.93333333
15660	0.017	17.86666667
15720	0.017	17.8

15780	0.017	17.73333333
15840	0.017	17.66666667
15900	0.017	17.6
15960	0.018	17.6
16020	0.017	17.53333333
16080	0.018	17.46666667
16140	0.019	17.53333333
16200	0.019	17.6
16260	0.018	17.6
16320	0.017	17.53333333
16380	0.017	17.46666667
16440	0.017	17.46666667
16500	0.017	17.46666667
16560	0.017	17.46666667
16620	0.017	17.46666667
16680	0.017	17.46666667
16740	0.017	17.46666667
16800	0.017	17.46666667
16860	0.017	17.4
16920	0.017	17.4
16980	0.02	17.53333333
17040	0.019	17.53333333
17100	0.026	18
17160	0.018	18
17220	0.017	18
17280	0.017	18
17340	0.017	18
17400	0.018	18.06666667
17460	0.019	18.2
17520	0.019	18.33333333
17580	0.017	18.33333333
17640	0.017	18.33333333
17700	0.017	18.33333333
17760	0.017	18.33333333
17820	0.017	18.33333333
17880	0.016	18.06666667
17940	0.017	17.93333333
18000	0.017	17.33333333
18060	0.017	17.26666667
18120	0.017	17.26666667
18180	0.016	17.2
18240	0.016	17.13333333
18300	0.017	17.06666667
18360	0.017	16.93333333
18420	0.016	16.73333333
18480	0.017	16.73333333
18540	0.016	16.66666667

18600	0.017	16.66666667
18660	0.017	16.66666667
18720	0.017	16.66666667
18780	0.017	16.73333333
18840	0.017	16.73333333
18900	0.019	16.86666667
18960	0.018	16.93333333
19020	0.02	17.13333333
19080	0.023	17.6
19140	0.019	17.8
19200	0.017	17.8
19260	0.018	17.86666667
19320	0.021	18.2
19380	0.024	18.66666667
19440	0.018	18.8
19500	0.018	18.86666667
19560	0.019	19
19620	0.024	19.46666667
19680	0.025	20
19740	0.023	20.4
19800	0.018	20.33333333
19860	0.018	20.33333333
19920	0.019	20.26666667
19980	0.019	20
20040	0.019	20
20100	0.02	20.2
20160	0.019	20.26666667
20220	0.018	20.06666667
20280	0.018	19.66666667
20340	0.018	19.66666667
20400	0.018	19.66666667
20460	0.018	19.6
20520	0.019	19.26666667
20580	0.019	18.86666667
20640	0.019	18.6
20700	0.019	18.66666667
20760	0.018	18.66666667
20820	0.018	18.6
20880	0.019	18.6
20940	0.019	18.6
21000	0.019	18.53333333
21060	0.019	18.53333333
21120	0.019	18.6
21180	0.019	18.66666667
21240	0.019	18.73333333
21300	0.019	18.8
21360	0.019	18.86666667

21420	0.019	18.86666667
21480	0.019	18.86666667
21540	0.019	18.86666667
21600	0.02	18.93333333
21660	0.019	19
21720	0.02	19.13333333
21780	0.019	19.13333333
21840	0.02	19.2
21900	0.019	19.2
21960	0.019	19.2
22020	0.019	19.2
22080	0.019	19.2
22140	0.02	19.26666667
22200	0.019	19.26666667
22260	0.019	19.26666667
22320	0.018	19.2
22380	0.019	19.2
22440	0.019	19.2
22500	0.019	19.13333333
22560	0.019	19.13333333
22620	0.019	19.06666667
22680	0.019	19.06666667
22740	0.02	19.06666667
22800	0.019	19.06666667
22860	0.019	19.06666667
22920	0.019	19.06666667
22980	0.02	19.13333333
23040	0.019	19.06666667
23100	0.019	19.06666667
23160	0.02	19.13333333
23220	0.02	19.26666667
23280	0.02	19.33333333
23340	0.019	19.33333333
23400	0.019	19.33333333
23460	0.019	19.33333333
23520	0.019	19.33333333
23580	0.02	19.4
23640	0.02	19.4
23700	0.019	19.4
23760	0.019	19.4
23820	0.019	19.4
23880	0.02	19.4
23940	0.019	19.4
24000	0.019	19.4
24060	0.019	19.33333333
24120	0.019	19.26666667
24180	0.019	19.2

24240	0.02	19.26666667
24300	0.019	19.26666667
24360	0.019	19.26666667
24420	0.02	19.33333333
24480	0.02	19.33333333
24540	0.02	19.33333333
24600	0.02	19.4
24660	0.02	19.46666667
24720	0.02	19.53333333
24780	0.02	19.53333333
24840	0.02	19.6
24900	0.02	19.66666667
24960	0.02	19.73333333
25020	0.02	19.8
25080	0.02	19.86666667
25140	0.02	19.86666667
25200	0.02	19.93333333
25260	0.02	20
25320	0.02	20
25380	0.021	20.06666667
25440	0.021	20.13333333
25500	0.02	20.13333333
25560	0.02	20.13333333
25620	0.02	20.13333333
25680	0.02	20.13333333
25740	0.02	20.13333333
25800	0.02	20.13333333
25860	0.02	20.13333333
25920	0.02	20.13333333
25980	0.02	20.13333333
26040	0.02	20.13333333
26100	0.02	20.13333333
26160	0.02	20.13333333
26220	0.02	20.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_044
Test Start Time	6:38:41 AM
Test Start Date	8/7/2020
Test Length [D:H:M]	0:07:31
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.12
Mass TWA [mg/m3]	0.021
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	440

Max Instant Conc.	Max 15 min TWA Conc.
120	36.2

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.019			
120	0.018			
180	0.016			
240	0.016			
300	0.017			
360	0.017			
420	0.017			
480	0.017			
540	0.017			
600	0.016			
660	0.016			
720	0.016			
780	0.016			
840	0.016			
900	0.016			16.66666667
960	0.016			16.46666667
1020	0.015			16.26666667
1080	0.015			16.2
1140	0.015			16.13333333
1200	0.016			16.06666667
1260	0.015			15.93333333
1320	0.015			15.8
1380	0.015			15.66666667
1440	0.016			15.6
1500	0.015			15.53333333
1560	0.015			15.46666667
1620	0.015			15.4

1680	0.016	15.4
1740	0.016	15.4
1800	0.016	15.4
1860	0.016	15.4
1920	0.016	15.46666667
1980	0.016	15.53333333
2040	0.015	15.53333333
2100	0.015	15.46666667
2160	0.015	15.46666667
2220	0.016	15.53333333
2280	0.016	15.6
2340	0.016	15.6
2400	0.018	15.8
2460	0.023	16.33333333
2520	0.021	16.73333333
2580	0.02	17
2640	0.018	17.13333333
2700	0.024	17.66666667
2760	0.027	18.4
2820	0.021	18.73333333
2880	0.018	18.86666667
2940	0.018	19.06666667
3000	0.018	19.26666667
3060	0.018	19.46666667
3120	0.018	19.6
3180	0.018	19.73333333
3240	0.018	19.86666667
3300	0.018	19.86666667
3360	0.018	19.53333333
3420	0.02	19.46666667
3480	0.02	19.46666667
3540	0.036	20.66666667
3600	0.023	20.6
3660	0.018	20
3720	0.018	19.8
3780	0.017	19.73333333
3840	0.017	19.66666667
3900	0.018	19.66666667
3960	0.017	19.6
4020	0.017	19.53333333
4080	0.017	19.46666667
4140	0.017	19.4
4200	0.017	19.33333333
4260	0.017	19.26666667
4320	0.017	19.06666667
4380	0.017	18.86666667
4440	0.017	17.6

4500	0.017	17.2
4560	0.017	17.13333333
4620	0.017	17.06666667
4680	0.017	17.06666667
4740	0.017	17.06666667
4800	0.017	17
4860	0.017	17
4920	0.018	17.06666667
4980	0.018	17.13333333
5040	0.017	17.13333333
5100	0.017	17.13333333
5160	0.017	17.13333333
5220	0.017	17.13333333
5280	0.017	17.13333333
5340	0.018	17.2
5400	0.018	17.26666667
5460	0.018	17.33333333
5520	0.018	17.4
5580	0.018	17.46666667
5640	0.019	17.6
5700	0.02	17.8
5760	0.021	18.06666667
5820	0.019	18.13333333
5880	0.019	18.2
5940	0.019	18.33333333
6000	0.019	18.46666667
6060	0.019	18.6
6120	0.019	18.73333333
6180	0.018	18.8
6240	0.019	18.86666667
6300	0.018	18.86666667
6360	0.018	18.86666667
6420	0.019	18.93333333
6480	0.019	19
6540	0.018	18.93333333
6600	0.019	18.86666667
6660	0.019	18.73333333
6720	0.019	18.73333333
6780	0.019	18.73333333
6840	0.018	18.66666667
6900	0.019	18.66666667
6960	0.019	18.66666667
7020	0.018	18.6
7080	0.018	18.6
7140	0.018	18.53333333
7200	0.018	18.53333333
7260	0.019	18.6

7320	0.018	18.53333333
7380	0.018	18.46666667
7440	0.018	18.46666667
7500	0.019	18.46666667
7560	0.019	18.46666667
7620	0.019	18.46666667
7680	0.019	18.46666667
7740	0.019	18.53333333
7800	0.018	18.46666667
7860	0.018	18.4
7920	0.019	18.46666667
7980	0.02	18.6
8040	0.021	18.8
8100	0.021	19
8160	0.021	19.13333333
8220	0.021	19.33333333
8280	0.021	19.53333333
8340	0.02	19.66666667
8400	0.02	19.73333333
8460	0.02	19.8
8520	0.02	19.86666667
8580	0.02	19.93333333
8640	0.02	20
8700	0.019	20.06666667
8760	0.02	20.2
8820	0.02	20.26666667
8880	0.019	20.2
8940	0.019	20.06666667
9000	0.019	19.93333333
9060	0.019	19.8
9120	0.019	19.66666667
9180	0.019	19.53333333
9240	0.019	19.46666667
9300	0.019	19.4
9360	0.019	19.33333333
9420	0.019	19.26666667
9480	0.019	19.2
9540	0.018	19.06666667
9600	0.019	19.06666667
9660	0.019	19
9720	0.019	18.93333333
9780	0.024	19.26666667
9840	0.018	19.2
9900	0.018	19.13333333
9960	0.018	19.06666667
10020	0.019	19.06666667
10080	0.018	19

10140	0.018	18.93333333
10200	0.019	18.93333333
10260	0.019	18.93333333
10320	0.019	18.93333333
10380	0.018	18.86666667
10440	0.019	18.93333333
10500	0.019	18.93333333
10560	0.019	18.93333333
10620	0.019	18.93333333
10680	0.019	18.6
10740	0.019	18.66666667
10800	0.019	18.73333333
10860	0.019	18.8
10920	0.019	18.8
10980	0.019	18.86666667
11040	0.02	19
11100	0.019	19
11160	0.019	19
11220	0.019	19
11280	0.027	19.6
11340	0.02	19.66666667
11400	0.019	19.66666667
11460	0.019	19.66666667
11520	0.019	19.66666667
11580	0.019	19.66666667
11640	0.019	19.66666667
11700	0.019	19.66666667
11760	0.019	19.66666667
11820	0.019	19.66666667
11880	0.019	19.66666667
11940	0.019	19.6
12000	0.019	19.6
12060	0.019	19.6
12120	0.019	19.6
12180	0.019	19.06666667
12240	0.023	19.26666667
12300	0.019	19.26666667
12360	0.019	19.26666667
12420	0.021	19.4
12480	0.019	19.4
12540	0.019	19.4
12600	0.02	19.46666667
12660	0.035	20.53333333
12720	0.02	20.6
12780	0.019	20.6
12840	0.019	20.6
12900	0.081	24.73333333

12960	0.019	24.73333333
13020	0.019	24.73333333
13080	0.019	24.73333333
13140	0.02	24.53333333
13200	0.019	24.53333333
13260	0.021	24.66666667
13320	0.033	25.46666667
13380	0.02	25.53333333
13440	0.02	25.6
13500	0.02	25.6
13560	0.033	25.46666667
13620	0.02	25.46666667
13680	0.023	25.73333333
13740	0.02	25.8
13800	0.022	21.86666667
13860	0.02	21.93333333
13920	0.019	21.93333333
13980	0.019	21.93333333
14040	0.019	21.86666667
14100	0.019	21.86666667
14160	0.019	21.73333333
14220	0.02	20.86666667
14280	0.118	27.4
14340	0.02	27.4
14400	0.02	27.4
14460	0.02	26.53333333
14520	0.02	26.53333333
14580	0.052	28.46666667
14640	0.021	28.53333333
14700	0.02	28.4
14760	0.023	28.6
14820	0.12	35.33333333
14880	0.022	35.53333333
14940	0.021	35.66666667
15000	0.021	35.8
15060	0.024	36.13333333
15120	0.021	36.2
15180	0.026	30.06666667
15240	0.022	30.2
15300	0.021	30.26666667
15360	0.021	30.33333333
15420	0.031	31.06666667
15480	0.021	29
15540	0.021	29
15600	0.021	29.06666667
15660	0.022	29
15720	0.021	22.4

15780	0.022	22.4
15840	0.021	22.4
15900	0.021	22.4
15960	0.021	22.2
16020	0.021	22.2
16080	0.021	21.86666667
16140	0.021	21.8
16200	0.021	21.8
16260	0.021	21.8
16320	0.021	21.13333333
16380	0.021	21.13333333
16440	0.022	21.2
16500	0.022	21.26666667
16560	0.022	21.26666667
16620	0.022	21.33333333
16680	0.022	21.33333333
16740	0.023	21.46666667
16800	0.022	21.53333333
16860	0.022	21.6
16920	0.022	21.66666667
16980	0.022	21.73333333
17040	0.022	21.8
17100	0.022	21.86666667
17160	0.022	21.93333333
17220	0.021	21.93333333
17280	0.022	22
17340	0.022	22
17400	0.025	22.2
17460	0.023	22.26666667
17520	0.023	22.33333333
17580	0.023	22.4
17640	0.023	22.4
17700	0.024	22.53333333
17760	0.023	22.6
17820	0.023	22.66666667
17880	0.023	22.73333333
17940	0.023	22.8
18000	0.023	22.86666667
18060	0.023	22.93333333
18120	0.023	23.06666667
18180	0.023	23.13333333
18240	0.023	23.2
18300	0.023	23.06666667
18360	0.024	23.13333333
18420	0.024	23.2
18480	0.024	23.26666667
18540	0.024	23.33333333

18600	0.025	23.4
18660	0.024	23.46666667
18720	0.025	23.6
18780	0.024	23.66666667
18840	0.024	23.73333333
18900	0.024	23.8
18960	0.024	23.86666667
19020	0.024	23.93333333
19080	0.024	24
19140	0.024	24.06666667
19200	0.024	24.13333333
19260	0.024	24.13333333
19320	0.024	24.13333333
19380	0.024	24.13333333
19440	0.024	24.13333333
19500	0.024	24.06666667
19560	0.024	24.06666667
19620	0.024	24
19680	0.024	24
19740	0.024	24
19800	0.024	24
19860	0.024	24
19920	0.024	24
19980	0.024	24
20040	0.024	24
20100	0.025	24.06666667
20160	0.024	24.06666667
20220	0.024	24.06666667
20280	0.025	24.13333333
20340	0.025	24.2
20400	0.025	24.26666667
20460	0.025	24.33333333
20520	0.025	24.4
20580	0.025	24.46666667
20640	0.025	24.53333333
20700	0.024	24.53333333
20760	0.025	24.6
20820	0.026	24.73333333
20880	0.025	24.8
20940	0.025	24.86666667
21000	0.025	24.86666667
21060	0.025	24.93333333
21120	0.026	25.06666667
21180	0.025	25.06666667
21240	0.026	25.13333333
21300	0.026	25.2
21360	0.026	25.26666667

21420	0.025	25.26666667
21480	0.026	25.33333333
21540	0.026	25.4
21600	0.026	25.53333333
21660	0.026	25.6
21720	0.026	25.6
21780	0.026	25.66666667
21840	0.025	25.66666667
21900	0.026	25.73333333
21960	0.026	25.8
22020	0.026	25.8
22080	0.026	25.86666667
22140	0.026	25.86666667
22200	0.029	26.06666667
22260	0.027	26.13333333
22320	0.027	26.26666667
22380	0.026	26.26666667
22440	0.026	26.26666667
22500	0.026	26.26666667
22560	0.026	26.26666667
22620	0.026	26.26666667
22680	0.026	26.26666667
22740	0.026	26.33333333
22800	0.026	26.33333333
22860	0.028	26.46666667
22920	0.027	26.53333333
22980	0.029	26.73333333
23040	0.026	26.73333333
23100	0.026	26.53333333
23160	0.026	26.46666667
23220	0.026	26.4
23280	0.026	26.4
23340	0.026	26.4
23400	0.026	26.4
23460	0.026	26.4
23520	0.027	26.46666667
23580	0.026	26.46666667
23640	0.026	26.46666667
23700	0.026	26.46666667
23760	0.027	26.4
23820	0.03	26.6
23880	0.03	26.66666667
23940	0.028	26.8
24000	0.027	26.86666667
24060	0.027	26.93333333
24120	0.027	27
24180	0.027	27.06666667

24240	0.027	27.13333333
24300	0.027	27.2
24360	0.027	27.26666667
24420	0.027	27.26666667
24480	0.027	27.33333333
24540	0.027	27.4
24600	0.028	27.53333333
24660	0.029	27.66666667
24720	0.029	27.6
24780	0.027	27.4
24840	0.027	27.33333333
24900	0.027	27.33333333
24960	0.027	27.33333333
25020	0.027	27.33333333
25080	0.027	27.33333333
25140	0.028	27.4
25200	0.028	27.46666667
25260	0.027	27.46666667
25320	0.028	27.53333333
25380	0.029	27.66666667
25440	0.031	27.93333333
25500	0.028	27.93333333
25560	0.029	27.93333333
25620	0.028	27.86666667
25680	0.028	27.93333333
25740	0.028	28
25800	0.029	28.13333333
25860	0.029	28.26666667
25920	0.031	28.53333333
25980	0.03	28.73333333
26040	0.043	29.73333333
26100	0.029	29.8
26160	0.029	29.93333333
26220	0.029	30
26280	0.029	30
27055	0	27.93333333
27060	0.049	29.33333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_045
Test Start Time	6:47:35 AM
Test Start Date	8/10/2020
Test Length [D:H:M]	0:01:28
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.027
Mass Minimum [mg/m3]	0.021
Mass Maximum [mg/m3]	0.088
Mass TWA [mg/m3]	0.005
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	88

Max Instant Conc.	Max 15 min TWA Conc.
88	42.4

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.036			
120	0.031			
180	0.033			
240	0.031			
300	0.03			
360	0.029			
420	0.027			
480	0.027			
540	0.027			
600	0.029			
660	0.04			
720	0.032			
780	0.029			
840	0.029			
900	0.025			30.33333333
960	0.023			29.46666667
1020	0.024			29
1080	0.022			28.26666667
1140	0.023			27.73333333
1200	0.022			27.2
1260	0.027			27.06666667
1320	0.023			26.8
1380	0.021			26.4
1440	0.022			26.06666667
1500	0.021			25.53333333
1560	0.021			24.26666667
1620	0.021			23.53333333

1680	0.021	23
1740	0.021	22.46666667
1800	0.021	22.2
1860	0.021	22.06666667
1920	0.021	21.86666667
1980	0.021	21.8
2040	0.021	21.66666667
2100	0.021	21.6
2160	0.021	21.2
2220	0.021	21.06666667
2280	0.021	21.06666667
2340	0.022	21.06666667
2400	0.021	21.06666667
2460	0.023	21.2
2520	0.021	21.2
2580	0.023	21.33333333
2640	0.024	21.53333333
2700	0.025	21.8
2760	0.023	21.93333333
2820	0.024	22.13333333
2880	0.022	22.2
2940	0.023	22.33333333
3000	0.023	22.46666667
3060	0.022	22.53333333
3120	0.024	22.73333333
3180	0.025	23
3240	0.024	23.13333333
3300	0.023	23.26666667
3360	0.023	23.26666667
3420	0.023	23.4
3480	0.023	23.4
3540	0.023	23.33333333
3600	0.022	23.13333333
3660	0.022	23.06666667
3720	0.022	22.93333333
3780	0.023	23
3840	0.022	22.93333333
3900	0.022	22.86666667
3960	0.023	22.93333333
4020	0.022	22.8
4080	0.023	22.66666667
4140	0.023	22.6
4200	0.025	22.73333333
4260	0.025	22.86666667
4320	0.024	22.93333333
4380	0.025	23.06666667
4440	0.024	23.13333333

4500	0.024	23.26666667
4560	0.033	24
4620	0.053	26.06666667
4680	0.04	27.2
4740	0.039	28.33333333
4800	0.041	29.6
4860	0.035	30.4
4920	0.037	31.4
4980	0.034	32.13333333
5040	0.034	32.86666667
5100	0.052	34.66666667
5160	0.039	35.6
5220	0.063	38.2
5280	0.088	42.4

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_046
Test Start Time	8:17:48 AM
Test Start Date	8/10/2020
Test Length [D:H:M]	0:06:04
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.03
Mass Minimum [mg/m3]	0.023
Mass Maximum [mg/m3]	0.039
Mass TWA [mg/m3]	0.023
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	364

Max Instant Conc.	Max 15 min TWA Conc.
39	37.8

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.038			
120	0.039			
180	0.039			
240	0.039			
300	0.038			
360	0.037			
420	0.037			
480	0.037			
540	0.037			
600	0.038			
660	0.038			
720	0.037			
780	0.038			
840	0.038			
900	0.037			37.8
960	0.037			37.73333333
1020	0.036			37.53333333
1080	0.036			37.33333333
1140	0.036			37.13333333
1200	0.037			37.06666667
1260	0.036			37
1320	0.036			36.93333333
1380	0.036			36.86666667
1440	0.035			36.73333333
1500	0.036			36.6
1560	0.036			36.46666667
1620	0.036			36.4

1680	0.036	36.26666667
1740	0.036	36.13333333
1800	0.035	36
1860	0.037	36
1920	0.037	36.06666667
1980	0.036	36.06666667
2040	0.036	36.06666667
2100	0.037	36.06666667
2160	0.036	36.06666667
2220	0.036	36.06666667
2280	0.035	36
2340	0.035	36
2400	0.035	35.93333333
2460	0.035	35.86666667
2520	0.034	35.73333333
2580	0.036	35.73333333
2640	0.034	35.6
2700	0.034	35.53333333
2760	0.034	35.33333333
2820	0.034	35.13333333
2880	0.034	35
2940	0.034	34.86666667
3000	0.035	34.73333333
3060	0.034	34.6
3120	0.034	34.46666667
3180	0.034	34.4
3240	0.034	34.33333333
3300	0.034	34.26666667
3360	0.033	34.13333333
3420	0.033	34.06666667
3480	0.034	33.93333333
3540	0.034	33.93333333
3600	0.034	33.93333333
3660	0.034	33.93333333
3720	0.034	33.93333333
3780	0.034	33.93333333
3840	0.035	34
3900	0.033	33.86666667
3960	0.033	33.8
4020	0.037	34
4080	0.033	33.93333333
4140	0.035	34
4200	0.033	33.93333333
4260	0.034	34
4320	0.034	34.06666667
4380	0.034	34.06666667
4440	0.034	34.06666667

4500	0.034	34.06666667
4560	0.034	34.06666667
4620	0.034	34.06666667
4680	0.034	34.06666667
4740	0.034	34
4800	0.033	34
4860	0.033	34
4920	0.033	33.73333333
4980	0.032	33.66666667
5040	0.032	33.46666667
5100	0.032	33.4
5160	0.032	33.26666667
5220	0.032	33.13333333
5280	0.032	33
5340	0.032	32.86666667
5400	0.032	32.73333333
5460	0.032	32.6
5520	0.032	32.46666667
5580	0.032	32.33333333
5640	0.032	32.2
5700	0.032	32.13333333
5760	0.032	32.06666667
5820	0.032	32
5880	0.032	32
5940	0.032	32
6000	0.032	32
6060	0.032	32
6120	0.032	32
6180	0.032	32
6240	0.032	32
6300	0.033	32.06666667
6360	0.032	32.06666667
6420	0.033	32.13333333
6480	0.032	32.13333333
6540	0.032	32.13333333
6600	0.032	32.13333333
6660	0.033	32.2
6720	0.033	32.26666667
6780	0.032	32.26666667
6840	0.032	32.26666667
6900	0.032	32.26666667
6960	0.033	32.33333333
7020	0.032	32.33333333
7080	0.032	32.33333333
7140	0.032	32.33333333
7200	0.032	32.26666667
7260	0.031	32.2

7320	0.032	32.13333333
7380	0.032	32.13333333
7440	0.032	32.13333333
7500	0.032	32.13333333
7560	0.032	32.06666667
7620	0.032	32
7680	0.032	32
7740	0.031	31.93333333
7800	0.031	31.86666667
7860	0.031	31.73333333
7920	0.032	31.73333333
7980	0.032	31.73333333
8040	0.031	31.66666667
8100	0.032	31.66666667
8160	0.032	31.73333333
8220	0.032	31.73333333
8280	0.031	31.66666667
8340	0.031	31.6
8400	0.031	31.53333333
8460	0.03	31.4
8520	0.03	31.26666667
8580	0.03	31.13333333
8640	0.03	31.06666667
8700	0.03	31
8760	0.03	30.93333333
8820	0.029	30.73333333
8880	0.03	30.6
8940	0.031	30.6
9000	0.031	30.53333333
9060	0.031	30.46666667
9120	0.031	30.4
9180	0.031	30.4
9240	0.03	30.33333333
9300	0.031	30.33333333
9360	0.031	30.4
9420	0.031	30.46666667
9480	0.031	30.53333333
9540	0.03	30.53333333
9600	0.03	30.53333333
9660	0.031	30.6
9720	0.031	30.73333333
9780	0.03	30.73333333
9840	0.031	30.73333333
9900	0.03	30.66666667
9960	0.03	30.6
10020	0.03	30.53333333
10080	0.03	30.46666667

10140	0.03	30.46666667
10200	0.03	30.4
10260	0.029	30.26666667
10320	0.03	30.2
10380	0.029	30.06666667
10440	0.029	30
10500	0.029	29.93333333
10560	0.029	29.8
10620	0.029	29.66666667
10680	0.028	29.53333333
10740	0.029	29.4
10800	0.029	29.33333333
10860	0.029	29.26666667
10920	0.03	29.26666667
10980	0.03	29.26666667
11040	0.029	29.2
11100	0.03	29.2
11160	0.03	29.26666667
11220	0.029	29.2
11280	0.029	29.2
11340	0.029	29.2
11400	0.029	29.2
11460	0.029	29.2
11520	0.029	29.2
11580	0.029	29.26666667
11640	0.029	29.26666667
11700	0.03	29.33333333
11760	0.029	29.33333333
11820	0.029	29.26666667
11880	0.029	29.2
11940	0.029	29.2
12000	0.029	29.13333333
12060	0.029	29.06666667
12120	0.03	29.13333333
12180	0.029	29.13333333
12240	0.03	29.2
12300	0.029	29.2
12360	0.029	29.2
12420	0.03	29.26666667
12480	0.03	29.33333333
12540	0.03	29.4
12600	0.03	29.4
12660	0.03	29.46666667
12720	0.03	29.53333333
12780	0.03	29.6
12840	0.03	29.66666667
12900	0.03	29.73333333

12960	0.03	29.8
13020	0.03	29.8
13080	0.03	29.86666667
13140	0.03	29.86666667
13200	0.03	29.93333333
13260	0.03	30
13320	0.03	30
13380	0.03	30
13440	0.03	30
13500	0.029	29.93333333
13560	0.029	29.86666667
13620	0.029	29.8
13680	0.029	29.73333333
13740	0.029	29.66666667
13800	0.029	29.6
13860	0.029	29.53333333
13920	0.029	29.46666667
13980	0.028	29.33333333
14040	0.029	29.26666667
14100	0.029	29.2
14160	0.03	29.2
14220	0.03	29.2
14280	0.029	29.13333333
14340	0.029	29.06666667
14400	0.029	29.06666667
14460	0.029	29.06666667
14520	0.029	29.06666667
14580	0.028	29
14640	0.028	28.93333333
14700	0.028	28.86666667
14760	0.029	28.86666667
14820	0.028	28.8
14880	0.028	28.8
14940	0.028	28.73333333
15000	0.027	28.6
15060	0.027	28.4
15120	0.027	28.2
15180	0.027	28.06666667
15240	0.027	27.93333333
15300	0.027	27.8
15360	0.027	27.66666667
15420	0.027	27.53333333
15480	0.027	27.46666667
15540	0.029	27.53333333
15600	0.027	27.46666667
15660	0.028	27.4
15720	0.028	27.4

15780	0.028	27.4
15840	0.028	27.4
15900	0.028	27.46666667
15960	0.028	27.53333333
16020	0.028	27.6
16080	0.028	27.66666667
16140	0.028	27.73333333
16200	0.027	27.73333333
16260	0.028	27.8
16320	0.028	27.86666667
16380	0.028	27.93333333
16440	0.027	27.8
16500	0.028	27.86666667
16560	0.028	27.86666667
16620	0.028	27.86666667
16680	0.028	27.86666667
16740	0.028	27.86666667
16800	0.028	27.86666667
16860	0.028	27.86666667
16920	0.028	27.86666667
16980	0.031	28.06666667
17040	0.026	27.93333333
17100	0.026	27.86666667
17160	0.026	27.73333333
17220	0.027	27.66666667
17280	0.028	27.66666667
17340	0.027	27.66666667
17400	0.027	27.6
17460	0.027	27.53333333
17520	0.027	27.46666667
17580	0.027	27.4
17640	0.027	27.33333333
17700	0.027	27.26666667
17760	0.027	27.2
17820	0.027	27.13333333
17880	0.027	26.86666667
17940	0.026	26.86666667
18000	0.025	26.8
18060	0.028	26.93333333
18120	0.025	26.8
18180	0.025	26.6
18240	0.025	26.46666667
18300	0.026	26.4
18360	0.025	26.26666667
18420	0.025	26.13333333
18480	0.026	26.06666667
18540	0.027	26.06666667

18600	0.025	25.93333333
18660	0.025	25.8
18720	0.025	25.66666667
18780	0.025	25.53333333
18840	0.025	25.46666667
18900	0.025	25.46666667
18960	0.024	25.2
19020	0.024	25.13333333
19080	0.024	25.06666667
19140	0.024	25
19200	0.024	24.86666667
19260	0.024	24.8
19320	0.024	24.73333333
19380	0.024	24.6
19440	0.024	24.4
19500	0.023	24.26666667
19560	0.024	24.2
19620	0.024	24.13333333
19680	0.024	24.06666667
19740	0.024	24
19800	0.025	24
19860	0.024	24
19920	0.024	24
19980	0.024	24
20040	0.024	24
20100	0.024	24
20160	0.024	24
20220	0.025	24.06666667
20280	0.025	24.13333333
20340	0.024	24.13333333
20400	0.025	24.26666667
20460	0.025	24.33333333
20520	0.024	24.33333333
20580	0.024	24.33333333
20640	0.024	24.33333333
20700	0.023	24.2
20760	0.023	24.13333333
20820	0.024	24.13333333
20880	0.024	24.13333333
20940	0.024	24.13333333
21000	0.025	24.2
21060	0.024	24.2
21120	0.024	24.13333333
21180	0.023	24
21240	0.024	24
21300	0.024	23.93333333
21360	0.024	23.86666667

21420	0.024	23.86666667
21480	0.024	23.86666667
21540	0.024	23.86666667
21600	0.024	23.93333333
21660	0.024	24
21720	0.024	24
21780	0.024	24
21840	0.023	23.93333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_047
Test Start Time	6:19:50 AM
Test Start Date	8/11/2020
Test Length [D:H:M]	0:08:30
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.041
Mass Minimum [mg/m3]	0.029
Mass Maximum [mg/m3]	0.049
Mass TWA [mg/m3]	0.041
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	510

Max Instant Conc.	Max 15 min TWA Conc.
49	47.86666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.045			
120	0.046			
180	0.046			
240	0.045			
300	0.046			
360	0.046			
420	0.046			
480	0.047			
540	0.046			
600	0.047			
660	0.047			
720	0.047			
780	0.047			
840	0.046			
900	0.046			46.2
960	0.046			46.26666667
1020	0.045			46.2
1080	0.045			46.13333333
1140	0.044			46.06666667
1200	0.044			45.93333333
1260	0.044			45.8
1320	0.044			45.66666667
1380	0.044			45.46666667
1440	0.044			45.33333333
1500	0.043			45.06666667
1560	0.044			44.86666667
1620	0.043			44.6

1680	0.042	44.26666667
1740	0.042	44
1800	0.042	43.73333333
1860	0.044	43.6
1920	0.043	43.46666667
1980	0.043	43.33333333
2040	0.044	43.33333333
2100	0.042	43.2
2160	0.042	43.06666667
2220	0.044	43.06666667
2280	0.044	43.06666667
2340	0.043	43
2400	0.043	43
2460	0.042	42.86666667
2520	0.042	42.8
2580	0.042	42.8
2640	0.041	42.73333333
2700	0.042	42.73333333
2760	0.041	42.53333333
2820	0.041	42.4
2880	0.041	42.26666667
2940	0.041	42.06666667
3000	0.041	42
3060	0.041	41.93333333
3120	0.041	41.73333333
3180	0.041	41.53333333
3240	0.041	41.4
3300	0.041	41.26666667
3360	0.041	41.2
3420	0.04	41.06666667
3480	0.04	40.93333333
3540	0.04	40.86666667
3600	0.039	40.66666667
3660	0.039	40.53333333
3720	0.039	40.4
3780	0.039	40.26666667
3840	0.039	40.13333333
3900	0.039	40
3960	0.039	39.86666667
4020	0.038	39.66666667
4080	0.039	39.53333333
4140	0.04	39.46666667
4200	0.039	39.33333333
4260	0.039	39.2
4320	0.039	39.13333333
4380	0.039	39.06666667
4440	0.038	38.93333333

4500	0.038	38.86666667
4560	0.038	38.8
4620	0.038	38.73333333
4680	0.038	38.66666667
4740	0.036	38.46666667
4800	0.039	38.46666667
4860	0.038	38.4
4920	0.037	38.33333333
4980	0.037	38.2
5040	0.039	38.13333333
5100	0.038	38.06666667
5160	0.037	37.93333333
5220	0.039	37.93333333
5280	0.038	37.86666667
5340	0.037	37.8
5400	0.038	37.8
5460	0.038	37.8
5520	0.039	37.86666667
5580	0.039	37.93333333
5640	0.038	38.06666667
5700	0.038	38
5760	0.038	38
5820	0.039	38.13333333
5880	0.038	38.2
5940	0.039	38.2
6000	0.039	38.26666667
6060	0.038	38.33333333
6120	0.038	38.26666667
6180	0.039	38.33333333
6240	0.039	38.46666667
6300	0.038	38.46666667
6360	0.038	38.46666667
6420	0.038	38.4
6480	0.039	38.4
6540	0.039	38.46666667
6600	0.04	38.6
6660	0.04	38.73333333
6720	0.041	38.86666667
6780	0.041	39.06666667
6840	0.041	39.2
6900	0.041	39.33333333
6960	0.04	39.46666667
7020	0.04	39.6
7080	0.04	39.66666667
7140	0.04	39.73333333
7200	0.04	39.86666667
7260	0.04	40

7320	0.04	40.13333333
7380	0.04	40.2
7440	0.04	40.26666667
7500	0.04	40.26666667
7560	0.04	40.26666667
7620	0.041	40.26666667
7680	0.04	40.2
7740	0.04	40.13333333
7800	0.041	40.13333333
7860	0.041	40.2
7920	0.042	40.33333333
7980	0.043	40.53333333
8040	0.042	40.66666667
8100	0.043	40.86666667
8160	0.042	41
8220	0.042	41.13333333
8280	0.045	41.46666667
8340	0.044	41.73333333
8400	0.043	41.93333333
8460	0.042	42.06666667
8520	0.041	42.06666667
8580	0.043	42.26666667
8640	0.042	42.4
8700	0.041	42.4
8760	0.042	42.46666667
8820	0.043	42.53333333
8880	0.045	42.66666667
8940	0.044	42.8
9000	0.046	43
9060	0.046	43.26666667
9120	0.047	43.6
9180	0.047	43.73333333
9240	0.046	43.86666667
9300	0.046	44.06666667
9360	0.046	44.33333333
9420	0.047	44.73333333
9480	0.046	44.93333333
9540	0.045	45.13333333
9600	0.046	45.46666667
9660	0.046	45.73333333
9720	0.046	45.93333333
9780	0.046	46
9840	0.045	46.06666667
9900	0.046	46.06666667
9960	0.046	46.06666667
10020	0.046	46
10080	0.046	45.93333333

10140	0.046	45.93333333
10200	0.046	45.93333333
10260	0.046	45.93333333
10320	0.046	45.86666667
10380	0.045	45.8
10440	0.045	45.8
10500	0.046	45.8
10560	0.046	45.8
10620	0.046	45.8
10680	0.045	45.73333333
10740	0.045	45.73333333
10800	0.045	45.66666667
10860	0.045	45.6
10920	0.045	45.53333333
10980	0.045	45.46666667
11040	0.046	45.46666667
11100	0.045	45.4
11160	0.045	45.33333333
11220	0.045	45.26666667
11280	0.045	45.26666667
11340	0.045	45.26666667
11400	0.046	45.26666667
11460	0.045	45.2
11520	0.045	45.13333333
11580	0.045	45.13333333
11640	0.046	45.2
11700	0.046	45.26666667
11760	0.046	45.33333333
11820	0.046	45.4
11880	0.045	45.4
11940	0.045	45.33333333
12000	0.045	45.33333333
12060	0.045	45.33333333
12120	0.045	45.33333333
12180	0.045	45.33333333
12240	0.045	45.33333333
12300	0.045	45.26666667
12360	0.046	45.33333333
12420	0.046	45.4
12480	0.046	45.46666667
12540	0.046	45.46666667
12600	0.046	45.46666667
12660	0.046	45.46666667
12720	0.047	45.53333333
12780	0.046	45.6
12840	0.046	45.66666667
12900	0.046	45.73333333

12960	0.046	45.8
13020	0.047	45.93333333
13080	0.047	46.06666667
13140	0.047	46.2
13200	0.046	46.26666667
13260	0.046	46.26666667
13320	0.046	46.26666667
13380	0.046	46.26666667
13440	0.046	46.26666667
13500	0.046	46.26666667
13560	0.046	46.26666667
13620	0.049	46.4
13680	0.046	46.4
13740	0.046	46.4
13800	0.046	46.4
13860	0.047	46.46666667
13920	0.047	46.46666667
13980	0.047	46.46666667
14040	0.047	46.46666667
14100	0.046	46.46666667
14160	0.046	46.46666667
14220	0.047	46.53333333
14280	0.046	46.53333333
14340	0.047	46.6
14400	0.047	46.66666667
14460	0.047	46.73333333
14520	0.047	46.6
14580	0.047	46.66666667
14640	0.047	46.73333333
14700	0.046	46.73333333
14760	0.047	46.73333333
14820	0.047	46.73333333
14880	0.047	46.73333333
14940	0.047	46.73333333
15000	0.047	46.8
15060	0.047	46.86666667
15120	0.047	46.86666667
15180	0.047	46.93333333
15240	0.047	46.93333333
15300	0.048	47
15360	0.048	47.06666667
15420	0.048	47.13333333
15480	0.048	47.2
15540	0.048	47.26666667
15600	0.048	47.4
15660	0.048	47.46666667
15720	0.048	47.53333333

15780	0.048	47.6
15840	0.049	47.73333333
15900	0.048	47.8
15960	0.048	47.86666667
16020	0.047	47.86666667
16080	0.045	47.73333333
16140	0.045	47.6
16200	0.045	47.4
16260	0.044	47.13333333
16320	0.044	46.86666667
16380	0.044	46.6
16440	0.043	46.26666667
16500	0.043	45.93333333
16560	0.043	45.6
16620	0.043	45.26666667
16680	0.044	45
16740	0.043	44.6
16800	0.043	44.26666667
16860	0.042	43.86666667
16920	0.041	43.46666667
16980	0.042	43.26666667
17040	0.042	43.06666667
17100	0.042	42.86666667
17160	0.042	42.73333333
17220	0.043	42.66666667
17280	0.042	42.53333333
17340	0.042	42.46666667
17400	0.04	42.26666667
17460	0.04	42.06666667
17520	0.04	41.86666667
17580	0.04	41.6
17640	0.04	41.4
17700	0.04	41.2
17760	0.04	41.06666667
17820	0.04	41
17880	0.04	40.86666667
17940	0.04	40.73333333
18000	0.04	40.6
18060	0.04	40.46666667
18120	0.04	40.26666667
18180	0.04	40.13333333
18240	0.039	39.93333333
18300	0.039	39.86666667
18360	0.039	39.8
18420	0.039	39.73333333
18480	0.039	39.66666667
18540	0.04	39.66666667

18600	0.04	39.66666667
18660	0.04	39.66666667
18720	0.041	39.73333333
18780	0.04	39.73333333
18840	0.04	39.73333333
18900	0.04	39.73333333
18960	0.04	39.73333333
19020	0.04	39.73333333
19080	0.04	39.73333333
19140	0.04	39.8
19200	0.04	39.86666667
19260	0.04	39.93333333
19320	0.04	40
19380	0.04	40.06666667
19440	0.04	40.06666667
19500	0.04	40.06666667
19560	0.04	40.06666667
19620	0.04	40
19680	0.04	40
19740	0.041	40.06666667
19800	0.041	40.13333333
19860	0.042	40.26666667
19920	0.041	40.33333333
19980	0.041	40.4
20040	0.042	40.53333333
20100	0.041	40.6
20160	0.041	40.66666667
20220	0.04	40.66666667
20280	0.04	40.66666667
20340	0.04	40.66666667
20400	0.041	40.73333333
20460	0.041	40.8
20520	0.041	40.86666667
20580	0.04	40.86666667
20640	0.04	40.8
20700	0.04	40.73333333
20760	0.041	40.66666667
20820	0.04	40.6
20880	0.04	40.53333333
20940	0.04	40.4
21000	0.04	40.33333333
21060	0.04	40.26666667
21120	0.039	40.2
21180	0.04	40.2
21240	0.04	40.2
21300	0.04	40.13333333
21360	0.04	40.06666667

21420	0.04	40
21480	0.04	40
21540	0.041	40.06666667
21600	0.041	40.13333333
21660	0.042	40.2
21720	0.043	40.4
21780	0.042	40.53333333
21840	0.042	40.66666667
21900	0.043	40.86666667
21960	0.043	41.06666667
22020	0.045	41.46666667
22080	0.045	41.8
22140	0.045	42.13333333
22200	0.045	42.46666667
22260	0.045	42.8
22320	0.046	43.2
22380	0.046	43.6
22440	0.046	43.93333333
22500	0.045	44.2
22560	0.046	44.46666667
22620	0.045	44.6
22680	0.044	44.73333333
22740	0.044	44.86666667
22800	0.044	44.93333333
22860	0.045	45.06666667
22920	0.044	45
22980	0.044	44.93333333
23040	0.044	44.86666667
23100	0.043	44.73333333
23160	0.043	44.6
23220	0.043	44.4
23280	0.043	44.2
23340	0.041	43.86666667
23400	0.038	43.4
23460	0.032	42.46666667
23520	0.032	41.6
23580	0.032	40.8
23640	0.031	39.93333333
23700	0.03	39
23760	0.031	38.06666667
23820	0.03	37.13333333
23880	0.031	36.26666667
23940	0.03	35.33333333
24000	0.03	34.46666667
24060	0.029	33.53333333
24120	0.029	32.6
24180	0.029	31.66666667

24240	0.029	30.86666667
24300	0.029	30.26666667
24360	0.029	30.06666667
24420	0.03	29.93333333
24480	0.029	29.73333333
24540	0.029	29.6
24600	0.031	29.66666667
24660	0.031	29.66666667
24720	0.032	29.8
24780	0.033	29.93333333
24840	0.033	30.13333333
24900	0.033	30.33333333
24960	0.034	30.66666667
25020	0.034	31
25080	0.033	31.26666667
25140	0.033	31.53333333
25200	0.034	31.86666667
25260	0.034	32.2
25320	0.035	32.53333333
25380	0.036	33
25440	0.036	33.46666667
25500	0.038	33.93333333
25560	0.038	34.4
25620	0.039	34.86666667
25680	0.038	35.2
25740	0.038	35.53333333
25800	0.038	35.86666667
25860	0.038	36.13333333
25920	0.038	36.4
25980	0.038	36.73333333
26040	0.039	37.13333333
26100	0.038	37.4
26160	0.041	37.86666667
26220	0.038	38.06666667
26280	0.038	38.2
26340	0.038	38.33333333
26400	0.038	38.33333333
26460	0.038	38.33333333
26520	0.038	38.26666667
26580	0.038	38.26666667
26640	0.038	38.26666667
26700	0.038	38.26666667
26760	0.038	38.26666667
26820	0.039	38.33333333
26880	0.038	38.33333333
26940	0.038	38.26666667
27000	0.038	38.26666667

27060	0.037	38
27120	0.037	37.93333333
27180	0.035	37.73333333
27240	0.035	37.53333333
27300	0.035	37.33333333
27360	0.036	37.2
27420	0.035	37
27480	0.036	36.86666667
27540	0.035	36.66666667
27600	0.035	36.46666667
27660	0.034	36.2
27720	0.035	35.93333333
27780	0.034	35.66666667
27840	0.034	35.4
27900	0.034	35.13333333
27960	0.034	34.93333333
28020	0.035	34.8
28080	0.035	34.8
28140	0.035	34.8
28200	0.035	34.8
28260	0.035	34.73333333
28320	0.035	34.73333333
28380	0.035	34.66666667
28440	0.035	34.66666667
28500	0.035	34.66666667
28560	0.035	34.73333333
28620	0.035	34.73333333
28680	0.035	34.8
28740	0.035	34.86666667
28800	0.035	34.93333333
28860	0.034	34.93333333
28920	0.034	34.86666667
28980	0.035	34.86666667
29040	0.035	34.86666667
29100	0.035	34.86666667
29160	0.034	34.8
29220	0.034	34.73333333
29280	0.035	34.73333333
29340	0.033	34.6
29400	0.034	34.53333333
29460	0.034	34.46666667
29520	0.034	34.4
29580	0.034	34.33333333
29640	0.034	34.26666667
29700	0.033	34.13333333
29760	0.033	34.06666667
29820	0.033	34

29880	0.033	33.86666667
29940	0.034	33.8
30000	0.034	33.73333333
30060	0.035	33.8
30120	0.035	33.86666667
30180	0.034	33.8
30240	0.035	33.93333333
30300	0.035	34
30360	0.035	34.06666667
30420	0.035	34.13333333
30480	0.035	34.2
30540	0.035	34.26666667
30600	0.037	34.53333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_048
Test Start Time	8:28:45 AM
Test Start Date	8/12/2020
Test Length [D:H:M]	0:00:07
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.038
Mass Minimum [mg/m3]	0.031
Mass Maximum [mg/m3]	0.055
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	7

Max Instant Conc.	Max 15 min TWA Conc.
55	0

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.055		
120	0.042		
180	0.031		
240	0.042		
300	0.033		
360	0.032		
420	0.031		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_049
Test Start Time	6:30:38 AM
Test Start Date	8/14/2020
Test Length [D:H:M]	0:08:23
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.03
Mass Minimum [mg/m3]	0.023
Mass Maximum [mg/m3]	0.117
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	503

Max Instant Conc.	Max 15 min TWA Conc.
117	44.93333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.027			
120	0.029			
180	0.03			
240	0.029			
300	0.029			
360	0.029			
420	0.029			
480	0.028			
540	0.029			
600	0.028			
660	0.028			
720	0.028			
780	0.028			
840	0.027			
900	0.027			28.33333333
960	0.028			28.4
1020	0.028			28.33333333
1080	0.028			28.2
1140	0.028			28.13333333
1200	0.028			28.06666667
1260	0.028			28
1320	0.028			27.93333333
1380	0.027			27.86666667
1440	0.027			27.73333333
1500	0.027			27.66666667
1560	0.027			27.6
1620	0.026			27.46666667

1680	0.027	27.4
1740	0.027	27.4
1800	0.027	27.4
1860	0.027	27.33333333
1920	0.028	27.33333333
1980	0.028	27.33333333
2040	0.029	27.4
2100	0.029	27.46666667
2160	0.03	27.6
2220	0.033	27.93333333
2280	0.028	28
2340	0.026	27.93333333
2400	0.026	27.86666667
2460	0.034	28.33333333
2520	0.03	28.6
2580	0.028	28.66666667
2640	0.026	28.6
2700	0.028	28.66666667
2760	0.026	28.6
2820	0.026	28.46666667
2880	0.026	28.33333333
2940	0.026	28.13333333
3000	0.027	28
3060	0.025	27.66666667
3120	0.025	27.13333333
3180	0.024	26.86666667
3240	0.024	26.73333333
3300	0.024	26.6
3360	0.024	25.93333333
3420	0.024	25.53333333
3480	0.024	25.26666667
3540	0.024	25.13333333
3600	0.024	24.86666667
3660	0.024	24.73333333
3720	0.025	24.66666667
3780	0.024	24.53333333
3840	0.024	24.4
3900	0.025	24.26666667
3960	0.024	24.2
4020	0.025	24.2
4080	0.023	24.13333333
4140	0.024	24.13333333
4200	0.024	24.13333333
4260	0.023	24.06666667
4320	0.023	24
4380	0.023	23.93333333
4440	0.024	23.93333333

4500	0.024	23.93333333
4560	0.023	23.86666667
4620	0.023	23.73333333
4680	0.024	23.73333333
4740	0.024	23.73333333
4800	0.025	23.73333333
4860	0.027	23.93333333
4920	0.027	24.06666667
4980	0.026	24.26666667
5040	0.026	24.4
5100	0.026	24.53333333
5160	0.025	24.66666667
5220	0.026	24.86666667
5280	0.025	25
5340	0.025	25.06666667
5400	0.024	25.06666667
5460	0.024	25.13333333
5520	0.024	25.2
5580	0.024	25.2
5640	0.024	25.2
5700	0.024	25.13333333
5760	0.025	25
5820	0.024	24.8
5880	0.025	24.73333333
5940	0.024	24.6
6000	0.025	24.53333333
6060	0.025	24.53333333
6120	0.025	24.46666667
6180	0.025	24.46666667
6240	0.025	24.46666667
6300	0.025	24.53333333
6360	0.025	24.6
6420	0.025	24.66666667
6480	0.025	24.73333333
6540	0.025	24.8
6600	0.025	24.86666667
6660	0.025	24.86666667
6720	0.025	24.93333333
6780	0.025	24.93333333
6840	0.025	25
6900	0.025	25
6960	0.025	25
7020	0.025	25
7080	0.025	25
7140	0.025	25
7200	0.027	25.13333333
7260	0.027	25.26666667

7320	0.026	25.33333333
7380	0.026	25.4
7440	0.026	25.46666667
7500	0.026	25.53333333
7560	0.026	25.6
7620	0.026	25.66666667
7680	0.026	25.73333333
7740	0.029	26
7800	0.026	26.06666667
7860	0.026	26.13333333
7920	0.026	26.2
7980	0.026	26.26666667
8040	0.026	26.33333333
8100	0.026	26.26666667
8160	0.026	26.2
8220	0.026	26.2
8280	0.026	26.2
8340	0.026	26.2
8400	0.027	26.26666667
8460	0.026	26.26666667
8520	0.026	26.26666667
8580	0.026	26.26666667
8640	0.026	26.06666667
8700	0.026	26.06666667
8760	0.026	26.06666667
8820	0.027	26.13333333
8880	0.027	26.2
8940	0.027	26.26666667
9000	0.027	26.33333333
9060	0.027	26.4
9120	0.029	26.6
9180	0.028	26.73333333
9240	0.027	26.8
9300	0.027	26.8
9360	0.027	26.86666667
9420	0.028	27
9480	0.027	27.06666667
9540	0.027	27.13333333
9600	0.027	27.2
9660	0.028	27.33333333
9720	0.027	27.33333333
9780	0.027	27.33333333
9840	0.027	27.33333333
9900	0.027	27.33333333
9960	0.027	27.33333333
10020	0.027	27.2
10080	0.027	27.13333333

10140	0.027	27.13333333
10200	0.027	27.13333333
10260	0.027	27.13333333
10320	0.027	27.06666667
10380	0.027	27.06666667
10440	0.027	27.06666667
10500	0.028	27.13333333
10560	0.027	27.06666667
10620	0.027	27.06666667
10680	0.027	27.06666667
10740	0.027	27.06666667
10800	0.027	27.06666667
10860	0.027	27.06666667
10920	0.028	27.13333333
10980	0.028	27.2
11040	0.028	27.26666667
11100	0.027	27.26666667
11160	0.027	27.26666667
11220	0.028	27.33333333
11280	0.028	27.4
11340	0.028	27.46666667
11400	0.028	27.46666667
11460	0.028	27.53333333
11520	0.028	27.6
11580	0.028	27.66666667
11640	0.028	27.73333333
11700	0.028	27.8
11760	0.028	27.86666667
11820	0.029	27.93333333
11880	0.028	27.93333333
11940	0.029	28
12000	0.028	28.06666667
12060	0.028	28.13333333
12120	0.028	28.13333333
12180	0.028	28.13333333
12240	0.028	28.13333333
12300	0.029	28.2
12360	0.028	28.2
12420	0.028	28.2
12480	0.028	28.2
12540	0.028	28.2
12600	0.027	28.13333333
12660	0.027	28.06666667
12720	0.028	28
12780	0.029	28.06666667
12840	0.03	28.13333333
12900	0.028	28.13333333

12960	0.028	28.13333333
13020	0.036	28.66666667
13080	0.043	29.66666667
13140	0.031	29.86666667
13200	0.031	30
13260	0.028	30
13320	0.029	30.06666667
13380	0.042	31
13440	0.03	31.13333333
13500	0.032	31.46666667
13560	0.029	31.6
13620	0.03	31.73333333
13680	0.03	31.8
13740	0.03	31.8
13800	0.029	31.86666667
13860	0.029	31.93333333
13920	0.03	31.53333333
13980	0.029	30.6
14040	0.029	30.46666667
14100	0.029	30.33333333
14160	0.029	30.4
14220	0.028	30.33333333
14280	0.029	29.46666667
14340	0.029	29.4
14400	0.029	29.2
14460	0.03	29.26666667
14520	0.029	29.2
14580	0.03	29.2
14640	0.03	29.2
14700	0.03	29.26666667
14760	0.03	29.33333333
14820	0.031	29.4
14880	0.034	29.73333333
14940	0.065	32.13333333
15000	0.033	32.4
15060	0.035	32.8
15120	0.032	33.06666667
15180	0.032	33.26666667
15240	0.033	33.53333333
15300	0.033	33.8
15360	0.03	33.8
15420	0.03	33.86666667
15480	0.031	33.93333333
15540	0.03	33.93333333
15600	0.032	34.06666667
15660	0.031	34.13333333
15720	0.03	34.06666667

15780	0.03	33.8
15840	0.032	31.6
15900	0.043	32.26666667
15960	0.032	32.06666667
16020	0.032	32.06666667
16080	0.047	33.06666667
16140	0.034	33.13333333
16200	0.031	33
16260	0.031	33.06666667
16320	0.033	33.26666667
16380	0.032	33.33333333
16440	0.032	33.46666667
16500	0.033	33.53333333
16560	0.034	33.73333333
16620	0.032	33.86666667
16680	0.033	34.06666667
16740	0.033	34.13333333
16800	0.033	33.46666667
16860	0.035	33.66666667
16920	0.033	33.73333333
16980	0.034	32.86666667
17040	0.036	33
17100	0.036	33.33333333
17160	0.045	34.26666667
17220	0.035	34.4
17280	0.043	35.13333333
17340	0.039	35.6
17400	0.043	36.26666667
17460	0.035	36.33333333
17520	0.035	36.53333333
17580	0.037	36.8
17640	0.037	37.06666667
17700	0.035	37.2
17760	0.034	37.13333333
17820	0.034	37.2
17880	0.035	37.26666667
17940	0.034	37.13333333
18000	0.034	37
18060	0.034	36.26666667
18120	0.034	36.2
18180	0.034	35.6
18240	0.04	35.66666667
18300	0.049	36.06666667
18360	0.038	36.26666667
18420	0.042	36.73333333
18480	0.047	37.4
18540	0.051	38.33333333

18600	0.034	38.26666667
18660	0.039	38.6
18720	0.044	39.26666667
18780	0.034	39.2
18840	0.04	39.6
18900	0.035	39.66666667
18960	0.034	39.66666667
19020	0.038	39.93333333
19080	0.038	40.2
19140	0.035	39.86666667
19200	0.036	39
19260	0.035	38.8
19320	0.034	38.26666667
19380	0.035	37.46666667
19440	0.036	36.46666667
19500	0.038	36.73333333
19560	0.037	36.6
19620	0.036	36.06666667
19680	0.035	36.13333333
19740	0.046	36.53333333
19800	0.035	36.53333333
19860	0.036	36.66666667
19920	0.051	37.53333333
19980	0.067	39.46666667
20040	0.117	44.93333333
20100	0.036	44.93333333
20160	0.034	44.86666667
20220	0.034	44.86666667
20280	0.033	44.73333333
20340	0.033	44.53333333
20400	0.035	44.33333333
20460	0.035	44.2
20520	0.034	44.06666667
20580	0.033	43.93333333
20640	0.034	43.13333333
20700	0.034	43.06666667
20760	0.034	42.93333333
20820	0.044	42.46666667
20880	0.038	40.53333333
20940	0.033	34.93333333
21000	0.033	34.73333333
21060	0.033	34.66666667
21120	0.033	34.6
21180	0.04	35.06666667
21240	0.033	35.06666667
21300	0.034	35
21360	0.034	34.93333333

21420	0.039	35.26666667
21480	0.033	35.26666667
21540	0.036	35.4
21600	0.038	35.66666667
21660	0.036	35.8
21720	0.034	35.13333333
21780	0.032	34.73333333
21840	0.032	34.66666667
21900	0.036	34.86666667
21960	0.032	34.8
22020	0.032	34.73333333
22080	0.033	34.26666667
22140	0.031	34.13333333
22200	0.032	34
22260	0.032	33.86666667
22320	0.032	33.4
22380	0.033	33.4
22440	0.032	33.13333333
22500	0.032	32.73333333
22560	0.032	32.46666667
22620	0.03	32.2
22680	0.03	32.06666667
22740	0.03	31.93333333
22800	0.031	31.6
22860	0.032	31.6
22920	0.032	31.6
22980	0.032	31.53333333
23040	0.069	34.06666667
23100	0.031	34
23160	0.032	34
23220	0.032	34
23280	0.032	33.93333333
23340	0.031	33.86666667
23400	0.03	33.73333333
23460	0.031	33.66666667
23520	0.032	33.8
23580	0.031	33.86666667
23640	0.032	34
23700	0.032	34.06666667
23760	0.034	34.2
23820	0.034	34.33333333
23880	0.034	34.46666667
23940	0.032	32
24000	0.033	32.13333333
24060	0.031	32.06666667
24120	0.031	32
24180	0.034	32.13333333

24240	0.032	32.2
24300	0.03	32.2
24360	0.03	32.13333333
24420	0.03	32
24480	0.031	32
24540	0.032	32
24600	0.03	31.86666667
24660	0.029	31.53333333
24720	0.029	31.2
24780	0.032	31.06666667
24840	0.044	31.86666667
24900	0.031	31.73333333
24960	0.032	31.8
25020	0.031	31.8
25080	0.031	31.6
25140	0.031	31.53333333
25200	0.032	31.66666667
25260	0.032	31.8
25320	0.032	31.93333333
25380	0.032	32
25440	0.032	32
25500	0.032	32.13333333
25560	0.032	32.33333333
25620	0.03	32.4
25680	0.03	32.26666667
25740	0.03	31.33333333
25800	0.029	31.2
25860	0.028	30.93333333
25920	0.028	30.73333333
25980	0.029	30.6
26040	0.03	30.53333333
26100	0.029	30.33333333
26160	0.028	30.06666667
26220	0.027	29.73333333
26280	0.027	29.4
26340	0.031	29.33333333
26400	0.027	29
26460	0.027	28.66666667
26520	0.027	28.46666667
26580	0.027	28.26666667
26640	0.027	28.06666667
26700	0.027	27.93333333
26760	0.027	27.86666667
26820	0.027	27.8
26880	0.027	27.66666667
26940	0.027	27.46666667
27000	0.027	27.33333333

27060	0.027	27.26666667
27120	0.027	27.26666667
27180	0.027	27.26666667
27240	0.028	27.06666667
27300	0.027	27.06666667
27360	0.028	27.13333333
27420	0.027	27.13333333
27480	0.028	27.2
27540	0.027	27.2
27600	0.03	27.4
27660	0.031	27.66666667
27720	0.029	27.8
27780	0.027	27.8
27840	0.027	27.8
27900	0.028	27.86666667
27960	0.028	27.93333333
28020	0.028	28
28080	0.027	28
28140	0.027	27.93333333
28200	0.027	27.93333333
28260	0.027	27.86666667
28320	0.027	27.86666667
28380	0.027	27.8
28440	0.028	27.86666667
28500	0.028	27.73333333
28560	0.029	27.6
28620	0.029	27.6
28680	0.027	27.6
28740	0.027	27.6
28800	0.027	27.53333333
28860	0.027	27.46666667
28920	0.032	27.73333333
28980	0.028	27.8
29040	0.036	28.4
29100	0.029	28.53333333
29160	0.027	28.53333333
29220	0.028	28.6
29280	0.034	29.06666667
29340	0.028	29.06666667
29400	0.027	29
29460	0.027	28.86666667
29520	0.027	28.73333333
29580	0.026	28.66666667
29640	0.026	28.6
29700	0.026	28.53333333
29760	0.027	28.53333333
29820	0.027	28.2

29880	0.028	28.2
29940	0.027	27.6
30000	0.027	27.46666667
30060	0.039	28.26666667
30120	0.033	28.6
30180	0.027	28.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_050
Test Start Time	6:42:47 AM
Test Start Date	8/17/2020
Test Length [D:H:M]	0:04:49
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.019
Mass Minimum [mg/m3]	0.017
Mass Maximum [mg/m3]	0.038
Mass TWA [mg/m3]	0.012
Photometric User Cal	1
Flow User Cal	0
Errors	Max Concentration
Number of Samples	289

Max Instant Conc.	Max 15 min TWA Conc.
38	26.53333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.038		Max Concentration	
120	0.034		Max Concentration	
180	0.031		Max Concentration	
240	0.029		Max Concentration	
300	0.027		Max Concentration	
360	0.026		Max Concentration	
420	0.025		Max Concentration	
480	0.025		Max Concentration	
540	0.025		Max Concentration	
600	0.024		Max Concentration	
660	0.024		Max Concentration	
720	0.023		Max Concentration	
780	0.023		Max Concentration	
840	0.022		Max Concentration	
900	0.022		Max Concentration	26.53333333
960	0.022		Max Concentration	25.46666667
1020	0.022		Max Concentration	24.66666667
1080	0.022		Max Concentration	24.06666667
1140	0.022		Max Concentration	23.6
1200	0.021		Max Concentration	23.2
1260	0.021		Max Concentration	22.86666667
1320	0.021		Max Concentration	22.6
1380	0.021		Max Concentration	22.33333333
1440	0.02		Max Concentration	22
1500	0.02		Max Concentration	21.73333333
1560	0.02		Max Concentration	21.46666667
1620	0.02		Max Concentration	21.26666667
1680	0.02		Max Concentration	21.06666667
1740	0.02		Max Concentration	20.93333333
1800	0.02		Max Concentration	20.8
1860	0.02		Max Concentration	20.66666667
1920	0.02		Max Concentration	20.53333333
1980	0.02		Max Concentration	20.4
2040	0.02		Max Concentration	20.26666667
2100	0.019		Max Concentration	20.13333333

2160	0.019	Max Concentration	20
2220	0.019	Max Concentration	19.86666667
2280	0.019	Max Concentration	19.73333333
2340	0.019	Max Concentration	19.66666667
2400	0.019	Max Concentration	19.6
2460	0.019	Max Concentration	19.53333333
2520	0.019	Max Concentration	19.46666667
2580	0.019	Max Concentration	19.4
2640	0.019	Max Concentration	19.33333333
2700	0.019	Max Concentration	19.26666667
2760	0.019	Max Concentration	19.2
2820	0.019	Max Concentration	19.13333333
2880	0.019	Max Concentration	19.06666667
2940	0.019	Max Concentration	19
3000	0.019	Max Concentration	19
3060	0.018	Max Concentration	18.93333333
3120	0.018	Max Concentration	18.86666667
3180	0.019	Max Concentration	18.86666667
3240	0.019	Max Concentration	18.86666667
3300	0.018	Max Concentration	18.8
3360	0.018	Max Concentration	18.73333333
3420	0.018	Max Concentration	18.66666667
3480	0.018	Max Concentration	18.6
3540	0.018	Max Concentration	18.53333333
3600	0.018	Max Concentration	18.46666667
3660	0.018	Max Concentration	18.4
3720	0.017	Max Concentration	18.26666667
3780	0.017	Max Concentration	18.13333333
3840	0.017	Max Concentration	18
3900	0.017	Max Concentration	17.86666667
3960	0.017	Max Concentration	17.8
4020	0.017	Max Concentration	17.73333333
4080	0.018	Max Concentration	17.66666667
4140	0.017	Max Concentration	17.53333333
4200	0.017	Max Concentration	17.46666667
4260	0.017	Max Concentration	17.4
4320	0.018	Max Concentration	17.4
4380	0.018	Max Concentration	17.4
4440	0.018	Max Concentration	17.4
4500	0.018	Max Concentration	17.4
4560	0.018	Max Concentration	17.4
4620	0.018	Max Concentration	17.46666667
4680	0.018	Max Concentration	17.53333333
4740	0.018	Max Concentration	17.6
4800	0.018	Max Concentration	17.66666667
4860	0.018	Max Concentration	17.73333333
4920	0.018	Max Concentration	17.8
4980	0.019	Max Concentration	17.86666667
5040	0.018	Max Concentration	17.93333333
5100	0.018	Max Concentration	18
5160	0.018	Max Concentration	18.06666667
5220	0.018	Max Concentration	18.06666667
5280	0.018	Max Concentration	18.06666667
5340	0.018	Max Concentration	18.06666667
5400	0.018	Max Concentration	18.06666667

5460	0.018	Max Concentration	18.06666667
5520	0.019	Max Concentration	18.13333333
5580	0.018	Max Concentration	18.13333333
5640	0.018	Max Concentration	18.13333333
5700	0.019	Max Concentration	18.2
5760	0.018	Max Concentration	18.2
5820	0.018	Max Concentration	18.2
5880	0.018	Max Concentration	18.13333333
5940	0.018	Max Concentration	18.13333333
6000	0.018	Max Concentration	18.13333333
6060	0.018	Max Concentration	18.13333333
6120	0.018	Max Concentration	18.13333333
6180	0.018	Max Concentration	18.13333333
6240	0.017	Max Concentration	18.06666667
6300	0.017	Max Concentration	18
6360	0.017	Max Concentration	17.93333333
6420	0.017	Max Concentration	17.8
6480	0.017	Max Concentration	17.73333333
6540	0.017	Max Concentration	17.66666667
6600	0.017	Max Concentration	17.53333333
6660	0.017	Max Concentration	17.46666667
6720	0.017	Max Concentration	17.4
6780	0.017	Max Concentration	17.33333333
6840	0.018	Max Concentration	17.33333333
6900	0.018	Max Concentration	17.33333333
6960	0.018	Max Concentration	17.33333333
7020	0.018	Max Concentration	17.33333333
7080	0.018	Max Concentration	17.33333333
7140	0.018	Max Concentration	17.4
7200	0.018	Max Concentration	17.46666667
7260	0.019	Max Concentration	17.6
7320	0.018	Max Concentration	17.66666667
7380	0.018	Max Concentration	17.73333333
7440	0.018	Max Concentration	17.8
7500	0.018	Max Concentration	17.86666667
7560	0.018	Max Concentration	17.93333333
7620	0.018	Max Concentration	18
7680	0.018	Max Concentration	18.06666667
7740	0.018	Max Concentration	18.06666667
7800	0.018	Max Concentration	18.06666667
7860	0.018	Max Concentration	18.06666667
7920	0.018	Max Concentration	18.06666667
7980	0.018	Max Concentration	18.06666667
8040	0.018	Max Concentration	18.06666667
8100	0.018	Max Concentration	18.06666667
8160	0.018	Max Concentration	18
8220	0.019	Max Concentration	18.06666667
8280	0.019	Max Concentration	18.13333333
8340	0.018	Max Concentration	18.13333333
8400	0.019	Max Concentration	18.2
8460	0.019	Max Concentration	18.26666667
8520	0.019	Max Concentration	18.33333333
8580	0.019	Max Concentration	18.4
8640	0.019	Max Concentration	18.46666667
8700	0.019	Max Concentration	18.53333333

8760	0.019	Max Concentration	18.6
8820	0.019	Max Concentration	18.66666667
8880	0.019	Max Concentration	18.73333333
8940	0.019	Max Concentration	18.8
9000	0.019	Max Concentration	18.86666667
9060	0.019	Max Concentration	18.93333333
9120	0.019	Max Concentration	18.93333333
9180	0.019	Max Concentration	18.93333333
9240	0.02	Max Concentration	19.06666667
9300	0.019	Max Concentration	19.06666667
9360	0.02	Max Concentration	19.13333333
9420	0.019	Max Concentration	19.13333333
9480	0.019	Max Concentration	19.13333333
9540	0.019	Max Concentration	19.13333333
9600	0.019	Max Concentration	19.13333333
9660	0.019	Max Concentration	19.13333333
9720	0.019	Max Concentration	19.13333333
9780	0.019	Max Concentration	19.13333333
9840	0.019	Max Concentration	19.13333333
9900	0.019	Max Concentration	19.13333333
9960	0.019	Max Concentration	19.13333333
10020	0.019	Max Concentration	19.13333333
10080	0.019	Max Concentration	19.13333333
10140	0.019	Max Concentration	19.06666667
10200	0.019	Max Concentration	19.06666667
10260	0.019	Max Concentration	19
10320	0.019	Max Concentration	19
10380	0.019	Max Concentration	19
10440	0.019	Max Concentration	19
10500	0.019	Max Concentration	19
10560	0.019	Max Concentration	19
10620	0.02	Max Concentration	19.06666667
10680	0.02	Max Concentration	19.13333333
10740	0.019	Max Concentration	19.13333333
10800	0.019	Max Concentration	19.13333333
10860	0.019	Max Concentration	19.13333333
10920	0.019	Max Concentration	19.13333333
10980	0.019	Max Concentration	19.13333333
11040	0.019	Max Concentration	19.13333333
11100	0.019	Max Concentration	19.13333333
11160	0.019	Max Concentration	19.13333333
11220	0.019	Max Concentration	19.13333333
11280	0.019	Max Concentration	19.13333333
11340	0.019	Max Concentration	19.13333333
11400	0.019	Max Concentration	19.13333333
11460	0.019	Max Concentration	19.13333333
11520	0.019	Max Concentration	19.06666667
11580	0.019	Max Concentration	19
11640	0.019	Max Concentration	19
11700	0.019	Max Concentration	19
11760	0.019	Max Concentration	19
11820	0.019	Max Concentration	19
11880	0.019	Max Concentration	19
11940	0.019	Max Concentration	19
12000	0.019	Max Concentration	19

12060	0.02	Max Concentration	19.06666667
12120	0.02	Max Concentration	19.13333333
12180	0.02	Max Concentration	19.2
12240	0.02	Max Concentration	19.26666667
12300	0.02	Max Concentration	19.33333333
12360	0.02	Max Concentration	19.4
12420	0.02	Max Concentration	19.46666667
12480	0.02	Max Concentration	19.53333333
12540	0.02	Max Concentration	19.6
12600	0.019	Max Concentration	19.6
12660	0.019	Max Concentration	19.6
12720	0.019	Max Concentration	19.6
12780	0.019	Max Concentration	19.6
12840	0.019	Max Concentration	19.6
12900	0.018	Max Concentration	19.53333333
12960	0.018	Max Concentration	19.4
13020	0.018	Max Concentration	19.26666667
13080	0.018	Max Concentration	19.13333333
13140	0.018	Max Concentration	19
13200	0.018	Max Concentration	18.86666667
13260	0.019	Max Concentration	18.8
13320	0.019	Max Concentration	18.73333333
13380	0.019	Max Concentration	18.66666667
13440	0.019	Max Concentration	18.6
13500	0.019	Max Concentration	18.6
13560	0.019	Max Concentration	18.6
13620	0.019	Max Concentration	18.6
13680	0.019	Max Concentration	18.6
13740	0.019	Max Concentration	18.6
13800	0.019	Max Concentration	18.66666667
13860	0.019	Max Concentration	18.73333333
13920	0.019	Max Concentration	18.8
13980	0.018	Max Concentration	18.8
14040	0.018	Max Concentration	18.8
14100	0.018	Max Concentration	18.8
14160	0.018	Max Concentration	18.73333333
14220	0.019	Max Concentration	18.73333333
14280	0.018	Max Concentration	18.66666667
14340	0.018	Max Concentration	18.6
14400	0.018	Max Concentration	18.53333333
14460	0.019	Max Concentration	18.53333333
14520	0.018	Max Concentration	18.46666667
14580	0.019	Max Concentration	18.46666667
14640	0.019	Max Concentration	18.46666667
14700	0.019	Max Concentration	18.46666667
14760	0.019	Max Concentration	18.46666667
14820	0.019	Max Concentration	18.46666667
14880	0.019	Max Concentration	18.53333333
14940	0.019	Max Concentration	18.6
15000	0.019	Max Concentration	18.66666667
15060	0.02	Max Concentration	18.8
15120	0.02	Max Concentration	18.86666667
15180	0.02	Max Concentration	19
15240	0.02	Max Concentration	19.13333333
15300	0.02	Max Concentration	19.26666667

15360	0.02	Max Concentration	19.33333333
15420	0.02	Max Concentration	19.46666667
15480	0.02	Max Concentration	19.53333333
15540	0.02	Max Concentration	19.6
15600	0.02	Max Concentration	19.66666667
15660	0.02	Max Concentration	19.73333333
15720	0.019	Max Concentration	19.73333333
15780	0.02	Max Concentration	19.8
15840	0.023	Max Concentration	20.06666667
15900	0.02	Max Concentration	20.13333333
15960	0.02	Max Concentration	20.13333333
16020	0.019	Max Concentration	20.06666667
16080	0.02	Max Concentration	20.06666667
16140	0.019	Max Concentration	20
16200	0.019	Max Concentration	19.93333333
16260	0.019	Max Concentration	19.86666667
16320	0.019	Max Concentration	19.8
16380	0.019	Max Concentration	19.73333333
16440	0.02	Max Concentration	19.73333333
16500	0.019	Max Concentration	19.66666667
16560	0.019	Max Concentration	19.6
16620	0.019	Max Concentration	19.6
16680	0.02	Max Concentration	19.6
16740	0.02	Max Concentration	19.4
16800	0.02	Max Concentration	19.4
16860	0.02	Max Concentration	19.4
16920	0.02	Max Concentration	19.46666667
16980	0.02	Max Concentration	19.46666667
17040	0.02	Max Concentration	19.53333333
17100	0.02	Max Concentration	19.6
17160	0.02	Max Concentration	19.66666667
17220	0.022	Max Concentration	19.86666667
17280	0.024	Max Concentration	20.2
17340	0.022	Max Concentration	20.33333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_051
Test Start Time	6:56:05 AM
Test Start Date	8/20/2020
Test Length [D:H:M]	0:09:43
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.014
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.02
Mass TWA [mg/m3]	0.005
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	189

Max Instant Conc.	Max 15 min TWA Conc.
20	18.46666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.018			
120	0.019			
180	0.02			
240	0.02			
300	0.02			
360	0.019			
420	0.019			
480	0.019			
540	0.018			
600	0.018			
660	0.017			
720	0.017			
780	0.017			
840	0.018			
900	0.018			18.46666667
960	0.018			18.46666667
1020	0.017			18.33333333
1080	0.017			18.13333333
1140	0.017			17.93333333
1200	0.017			17.73333333
1260	0.017			17.6
1320	0.017			17.46666667
1380	0.017			17.33333333
1440	0.017			17.26666667
1500	0.018			17.26666667
1560	0.018			17.33333333
1620	0.016			17.26666667

1680	0.017	17.26666667
1740	0.016	17.13333333
1800	0.017	17.06666667
1860	0.016	16.93333333
1920	0.016	16.86666667
1980	0.016	16.8
2040	0.016	16.73333333
2100	0.016	16.66666667
2160	0.016	16.6
2220	0.015	16.46666667
2280	0.016	16.4
2340	0.015	16.26666667
2400	0.016	16.13333333
2460	0.016	16
2520	0.015	15.93333333
2580	0.016	15.86666667
2640	0.016	15.86666667
2700	0.016	15.8
2760	0.016	15.8
2820	0.015	15.73333333
2880	0.016	15.73333333
2940	0.015	15.66666667
3000	0.015	15.6
3060	0.015	15.53333333
3120	0.014	15.46666667
3180	0.014	15.33333333
3240	0.015	15.33333333
3300	0.015	15.26666667
3360	0.014	15.13333333
3420	0.014	15.06666667
3480	0.014	14.93333333
3540	0.014	14.8
3600	0.014	14.66666667
3660	0.014	14.53333333
3720	0.014	14.46666667
3780	0.013	14.26666667
3840	0.015	14.26666667
3900	0.015	14.26666667
3960	0.014	14.2
4020	0.014	14.2
4080	0.014	14.2
4140	0.013	14.06666667
4200	0.014	14
4260	0.013	13.93333333
4320	0.013	13.86666667
4380	0.013	13.8
4440	0.013	13.73333333

4500	0.013	13.66666667
4560	0.013	13.6
4620	0.013	13.53333333
4680	0.013	13.53333333
4740	0.013	13.4
4800	0.013	13.26666667
4860	0.013	13.2
4920	0.013	13.13333333
4980	0.013	13.06666667
5040	0.013	13.06666667
5100	0.013	13
5160	0.013	13
5220	0.013	13
5280	0.013	13
5340	0.013	13
5400	0.013	13
5460	0.013	13
5520	0.012	12.93333333
5580	0.012	12.86666667
5640	0.012	12.8
5700	0.012	12.73333333
5760	0.012	12.66666667
5820	0.012	12.6
5880	0.012	12.53333333
5940	0.012	12.46666667
6000	0.012	12.4
6060	0.012	12.33333333
6120	0.012	12.26666667
6180	0.012	12.2
6240	0.012	12.13333333
6300	0.012	12.06666667
6360	0.011	11.93333333
6420	0.012	11.93333333
6480	0.012	11.93333333
6540	0.011	11.86666667
6600	0.011	11.8
6660	0.012	11.8
6720	0.011	11.73333333
6780	0.011	11.66666667
6840	0.011	11.6
6900	0.011	11.53333333
6960	0.011	11.46666667
7020	0.011	11.4
7080	0.011	11.33333333
7140	0.012	11.33333333
7200	0.012	11.33333333
7260	0.012	11.4

7320	0.012	11.4
7380	0.012	11.4
7440	0.012	11.46666667
7500	0.012	11.53333333
7560	0.012	11.53333333
7620	0.012	11.6
7680	0.012	11.66666667
7740	0.012	11.73333333
7800	0.012	11.8
7860	0.013	11.93333333
7920	0.012	12
7980	0.012	12.06666667
8040	0.012	12.06666667
8100	0.012	12.06666667
8160	0.012	12.06666667
8220	0.012	12.06666667
8280	0.012	12.06666667
8340	0.019	12.53333333
8400	0.012	12.53333333
8460	0.013	12.6
8520	0.014	12.73333333
8580	0.013	12.8
8640	0.013	12.86666667
8700	0.013	12.93333333
8760	0.013	12.93333333
8820	0.013	13
8880	0.013	13.06666667
8940	0.012	13.06666667
9000	0.012	13.06666667
9060	0.013	13.13333333
9120	0.013	13.2
9180	0.012	13.2
9240	0.013	12.8
9300	0.013	12.86666667
9360	0.013	12.86666667
9420	0.013	12.8
9480	0.013	12.8
9540	0.013	12.8
9600	0.013	12.8
9660	0.014	12.86666667
9720	0.013	12.86666667
9780	0.014	12.93333333
9840	0.014	13.06666667
9900	0.014	13.2
9960	0.014	13.26666667
10020	0.014	13.33333333
10080	0.014	13.46666667

10140	0.014	13.53333333
10200	0.013	13.53333333
10260	0.013	13.53333333
10320	0.013	13.53333333
10380	0.014	13.6
10440	0.014	13.66666667
10500	0.013	13.66666667
10560	0.014	13.66666667
10620	0.014	13.73333333
10680	0.014	13.73333333
10740	0.014	13.73333333
10800	0.014	13.73333333
10860	0.014	13.73333333
10920	0.014	13.73333333
10980	0.014	13.73333333
11040	0.014	13.73333333
11100	0.014	13.8
11160	0.016	14
11220	0.014	14.06666667
11280	0.014	14.06666667
34980	0	13.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_052
Test Start Time	6:24:14 AM
Test Start Date	8/21/2020
Test Length [D:H:M]	0:07:16
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.019
Mass Minimum [mg/m3]	0.015
Mass Maximum [mg/m3]	0.079
Mass TWA [mg/m3]	0.017
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	436

Max Instant Conc.	Max 15 min TWA Conc.
79	26.93333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.024			
120	0.016			
180	0.019			
240	0.02			
300	0.018			
360	0.017			
420	0.025			
480	0.017			
540	0.019			
600	0.017			
660	0.016			
720	0.017			
780	0.015			
840	0.015			
900	0.015			18
960	0.015			17.4
1020	0.015			17.33333333
1080	0.015			17.06666667
1140	0.015			16.73333333
1200	0.015			16.53333333
1260	0.015			16.4
1320	0.016			15.8
1380	0.016			15.73333333
1440	0.016			15.53333333
1500	0.017			15.53333333
1560	0.016			15.53333333
1620	0.018			15.6

1680	0.017	15.73333333
1740	0.017	15.86666667
1800	0.017	16
1860	0.017	16.13333333
1920	0.017	16.26666667
1980	0.018	16.46666667
2040	0.017	16.6
2100	0.017	16.73333333
2160	0.018	16.93333333
2220	0.02	17.2
2280	0.02	17.46666667
2340	0.022	17.86666667
2400	0.021	18.13333333
2460	0.022	18.53333333
2520	0.021	18.73333333
2580	0.019	18.86666667
2640	0.019	19
2700	0.018	19.06666667
2760	0.017	19.06666667
2820	0.017	19.06666667
2880	0.016	18.93333333
2940	0.016	18.86666667
3000	0.015	18.73333333
3060	0.016	18.6
3120	0.015	18.26666667
3180	0.016	18
3240	0.017	17.66666667
3300	0.016	17.33333333
3360	0.017	17
3420	0.022	17.06666667
3480	0.024	17.4
3540	0.017	17.26666667
3600	0.02	17.4
3660	0.016	17.33333333
3720	0.016	17.26666667
3780	0.016	17.26666667
3840	0.016	17.26666667
3900	0.016	17.33333333
3960	0.016	17.33333333
4020	0.016	17.4
4080	0.016	17.4
4140	0.016	17.33333333
4200	0.016	17.33333333
4260	0.015	17.2
4320	0.015	16.73333333
4380	0.015	16.13333333
4440	0.017	16.13333333

4500	0.022	16.26666667
4560	0.053	18.73333333
4620	0.061	21.73333333
4680	0.024	22.26666667
4740	0.015	22.2
4800	0.015	22.13333333
4860	0.016	22.13333333
4920	0.016	22.13333333
4980	0.016	22.13333333
5040	0.016	22.13333333
5100	0.016	22.13333333
5160	0.016	22.2
5220	0.016	22.26666667
5280	0.016	22.33333333
5340	0.016	22.26666667
5400	0.019	22.06666667
5460	0.016	19.6
5520	0.016	16.6
5580	0.016	16.06666667
5640	0.016	16.13333333
5700	0.016	16.2
5760	0.02	16.46666667
5820	0.029	17.33333333
5880	0.02	17.6
5940	0.079	21.8
6000	0.038	23.26666667
6060	0.06	26.2
6120	0.017	26.26666667
6180	0.021	26.6
6240	0.017	26.66666667
6300	0.021	26.8
6360	0.017	26.86666667
6420	0.017	26.93333333
6480	0.016	26.93333333
6540	0.016	26.93333333
6600	0.016	26.93333333
6660	0.016	26.66666667
6720	0.016	25.8
6780	0.016	25.53333333
6840	0.016	21.33333333
6900	0.016	19.86666667
6960	0.016	16.93333333
7020	0.016	16.86666667
7080	0.016	16.53333333
7140	0.017	16.53333333
7200	0.016	16.2
7260	0.016	16.13333333

7320	0.016	16.06666667
7380	0.016	16.06666667
7440	0.016	16.06666667
7500	0.016	16.06666667
7560	0.02	16.33333333
7620	0.02	16.6
7680	0.016	16.6
7740	0.016	16.6
7800	0.016	16.6
7860	0.016	16.6
7920	0.016	16.6
7980	0.017	16.66666667
8040	0.017	16.66666667
8100	0.017	16.73333333
8160	0.017	16.8
8220	0.017	16.86666667
8280	0.017	16.93333333
8340	0.017	17
8400	0.017	17.06666667
8460	0.017	16.86666667
8520	0.017	16.66666667
8580	0.019	16.86666667
8640	0.017	16.93333333
8700	0.018	17.06666667
8760	0.018	17.2
8820	0.017	17.26666667
8880	0.017	17.26666667
8940	0.017	17.26666667
9000	0.017	17.26666667
9060	0.017	17.26666667
9120	0.017	17.26666667
9180	0.017	17.26666667
9240	0.017	17.26666667
9300	0.017	17.26666667
9360	0.017	17.26666667
9420	0.017	17.26666667
9480	0.018	17.2
9540	0.017	17.2
9600	0.018	17.2
9660	0.018	17.2
9720	0.018	17.26666667
9780	0.018	17.33333333
9840	0.018	17.4
9900	0.018	17.46666667
9960	0.018	17.53333333
10020	0.019	17.66666667
10080	0.018	17.73333333

10140	0.018	17.8
10200	0.026	18.4
10260	0.018	18.46666667
10320	0.018	18.53333333
10380	0.018	18.53333333
10440	0.019	18.66666667
10500	0.018	18.66666667
10560	0.017	18.6
10620	0.018	18.6
10680	0.018	18.6
10740	0.018	18.6
10800	0.018	18.6
10860	0.018	18.6
10920	0.018	18.53333333
10980	0.018	18.53333333
11040	0.018	18.53333333
11100	0.018	18
11160	0.018	18
11220	0.019	18.06666667
11280	0.018	18.06666667
11340	0.018	18
11400	0.018	18
11460	0.019	18.13333333
11520	0.018	18.13333333
11580	0.018	18.13333333
11640	0.018	18.13333333
11700	0.018	18.13333333
11760	0.019	18.2
11820	0.018	18.2
11880	0.018	18.2
11940	0.019	18.26666667
12000	0.019	18.33333333
12060	0.019	18.4
12120	0.019	18.4
12180	0.019	18.46666667
12240	0.019	18.53333333
12300	0.019	18.6
12360	0.019	18.6
12420	0.019	18.66666667
12480	0.019	18.73333333
12540	0.018	18.73333333
12600	0.019	18.8
12660	0.018	18.73333333
12720	0.019	18.8
12780	0.019	18.86666667
12840	0.018	18.8
12900	0.019	18.8

12960	0.019	18.8
13020	0.02	18.86666667
13080	0.019	18.86666667
13140	0.019	18.86666667
13200	0.02	18.93333333
13260	0.019	18.93333333
13320	0.019	18.93333333
13380	0.019	18.93333333
13440	0.019	19
13500	0.02	19.06666667
13560	0.019	19.13333333
13620	0.019	19.13333333
13680	0.019	19.13333333
13740	0.019	19.2
13800	0.019	19.2
13860	0.019	19.2
13920	0.019	19.13333333
13980	0.019	19.13333333
14040	0.019	19.13333333
14100	0.02	19.13333333
14160	0.02	19.2
14220	0.02	19.26666667
14280	0.02	19.33333333
14340	0.02	19.4
14400	0.02	19.4
14460	0.02	19.46666667
14520	0.02	19.53333333
14580	0.02	19.6
14640	0.02	19.66666667
14700	0.02	19.73333333
14760	0.02	19.8
14820	0.02	19.86666667
14880	0.019	19.86666667
14940	0.02	19.93333333
15000	0.019	19.86666667
15060	0.02	19.86666667
15120	0.02	19.86666667
15180	0.02	19.86666667
15240	0.02	19.86666667
15300	0.02	19.86666667
15360	0.02	19.86666667
15420	0.02	19.86666667
15480	0.02	19.86666667
15540	0.02	19.86666667
15600	0.02	19.86666667
15660	0.02	19.86666667
15720	0.02	19.86666667

15780	0.02	19.93333333
15840	0.02	19.93333333
15900	0.02	20
15960	0.02	20
16020	0.02	20
16080	0.02	20
16140	0.019	19.93333333
16200	0.02	19.93333333
16260	0.019	19.86666667
16320	0.02	19.86666667
16380	0.022	20
16440	0.02	20
16500	0.02	20
16560	0.02	20
16620	0.02	20
16680	0.02	20
16740	0.02	20
16800	0.021	20.06666667
16860	0.02	20.06666667
16920	0.02	20.06666667
16980	0.02	20.06666667
17040	0.021	20.2
17100	0.02	20.2
17160	0.02	20.26666667
17220	0.02	20.26666667
17280	0.02	20.13333333
17340	0.019	20.06666667
17400	0.02	20.06666667
17460	0.019	20
17520	0.02	20
17580	0.019	19.93333333
17640	0.019	19.86666667
17700	0.019	19.73333333
17760	0.019	19.66666667
17820	0.019	19.6
17880	0.019	19.53333333
17940	0.019	19.4
18000	0.019	19.33333333
18060	0.019	19.26666667
18120	0.019	19.2
18180	0.019	19.13333333
18240	0.019	19.13333333
18300	0.02	19.13333333
18360	0.02	19.2
18420	0.02	19.2
18480	0.019	19.2
18540	0.02	19.26666667

18600	0.019	19.26666667
18660	0.019	19.26666667
18720	0.019	19.26666667
18780	0.02	19.33333333
18840	0.02	19.4
18900	0.019	19.4
18960	0.02	19.46666667
19020	0.02	19.53333333
19080	0.02	19.6
19140	0.019	19.6
19200	0.02	19.6
19260	0.019	19.53333333
19320	0.019	19.46666667
19380	0.02	19.53333333
19440	0.019	19.46666667
19500	0.019	19.46666667
19560	0.019	19.46666667
19620	0.019	19.46666667
19680	0.019	19.4
19740	0.019	19.33333333
19800	0.019	19.33333333
19860	0.019	19.26666667
19920	0.019	19.2
19980	0.019	19.13333333
20040	0.019	19.13333333
20100	0.02	19.13333333
20160	0.02	19.2
20220	0.019	19.2
20280	0.019	19.13333333
20340	0.019	19.13333333
20400	0.02	19.2
20460	0.02	19.26666667
20520	0.02	19.33333333
20580	0.02	19.4
20640	0.02	19.46666667
20700	0.019	19.46666667
20760	0.02	19.53333333
20820	0.02	19.6
20880	0.02	19.66666667
20940	0.02	19.73333333
21000	0.02	19.73333333
21060	0.02	19.73333333
21120	0.02	19.8
21180	0.02	19.86666667
21240	0.02	19.93333333
21300	0.02	19.93333333
21360	0.019	19.86666667

21420	0.019	19.8
21480	0.02	19.8
21540	0.02	19.8
21600	0.019	19.8
21660	0.019	19.73333333
21720	0.02	19.73333333
21780	0.019	19.66666667
21840	0.02	19.66666667
21900	0.02	19.66666667
21960	0.02	19.66666667
22020	0.019	19.6
22080	0.019	19.53333333
22140	0.02	19.53333333
22200	0.02	19.53333333
22260	0.019	19.53333333
22320	0.019	19.53333333
22380	0.019	19.46666667
22440	0.019	19.4
22500	0.02	19.46666667
22560	0.02	19.53333333
22620	0.02	19.53333333
22680	0.02	19.6
22740	0.02	19.6
22800	0.02	19.6
22860	0.02	19.6
22920	0.02	19.66666667
22980	0.02	19.73333333
23040	0.02	19.73333333
23100	0.019	19.66666667
23160	0.019	19.66666667
23220	0.019	19.66666667
23280	0.019	19.66666667
23340	0.019	19.66666667
23400	0.02	19.66666667
23460	0.02	19.66666667
23520	0.02	19.66666667
23580	0.019	19.6
23640	0.019	19.53333333
23700	0.02	19.53333333
23760	0.02	19.53333333
23820	0.019	19.46666667
23880	0.019	19.4
23940	0.02	19.4
24000	0.02	19.46666667
24060	0.019	19.46666667
24120	0.02	19.53333333
24180	0.021	19.66666667

24240	0.019	19.66666667
24300	0.02	19.66666667
24360	0.02	19.66666667
24420	0.02	19.66666667
24480	0.02	19.73333333
24540	0.019	19.73333333
24600	0.02	19.73333333
24660	0.02	19.73333333
24720	0.02	19.8
24780	0.019	19.8
24840	0.02	19.8
24900	0.02	19.8
24960	0.019	19.8
25020	0.02	19.8
25080	0.019	19.66666667
25140	0.019	19.66666667
25200	0.019	19.6
25260	0.019	19.53333333
25320	0.019	19.46666667
25380	0.019	19.4
25440	0.02	19.46666667
25500	0.019	19.4
25560	0.019	19.33333333
25620	0.018	19.2
25680	0.018	19.13333333
25740	0.019	19.06666667
25800	0.019	19
25860	0.018	18.93333333
25920	0.018	18.8
25980	0.019	18.8
26040	0.019	18.8
26100	0.019	18.8
26160	0.019	18.8

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_053
Test Start Time	6:36:33 AM
Test Start Date	8/24/2020
Test Length [D:H:M]	0:07:43
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.026
Mass Minimum [mg/m3]	0.022
Mass Maximum [mg/m3]	0.041
Mass TWA [mg/m3]	0.025
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	463

Max Instant Conc.	Max 15 min TWA Conc.
41	30.53333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.035			
120	0.037			
180	0.035			
240	0.033			
300	0.032			
360	0.03			
420	0.03			
480	0.03			
540	0.028			
600	0.028			
660	0.028			
720	0.028			
780	0.028			
840	0.028			
900	0.028			30.53333333
960	0.028			30.06666667
1020	0.027			29.4
1080	0.028			28.93333333
1140	0.028			28.6
1200	0.027			28.26666667
1260	0.027			28.06666667
1320	0.028			27.93333333
1380	0.027			27.73333333
1440	0.025			27.53333333
1500	0.026			27.4
1560	0.024			27.13333333
1620	0.024			26.86666667

1680	0.023	26.53333333
1740	0.025	26.33333333
1800	0.023	26
1860	0.023	25.66666667
1920	0.025	25.53333333
1980	0.024	25.26666667
2040	0.025	25.06666667
2100	0.025	24.93333333
2160	0.024	24.73333333
2220	0.025	24.53333333
2280	0.025	24.4
2340	0.025	24.4
2400	0.026	24.4
2460	0.025	24.46666667
2520	0.026	24.6
2580	0.026	24.8
2640	0.026	24.86666667
2700	0.025	25
2760	0.023	25
2820	0.026	25.06666667
2880	0.026	25.2
2940	0.026	25.26666667
3000	0.026	25.33333333
3060	0.026	25.46666667
3120	0.026	25.53333333
3180	0.026	25.6
3240	0.026	25.66666667
3300	0.027	25.73333333
3360	0.03	26.06666667
3420	0.031	26.4
3480	0.027	26.46666667
3540	0.025	26.4
3600	0.026	26.46666667
3660	0.027	26.73333333
3720	0.026	26.73333333
3780	0.027	26.8
3840	0.026	26.8
3900	0.026	26.8
3960	0.027	26.86666667
4020	0.026	26.86666667
4080	0.027	26.93333333
4140	0.027	27
4200	0.025	26.86666667
4260	0.025	26.53333333
4320	0.025	26.13333333
4380	0.026	26.06666667
4440	0.026	26.13333333

4500	0.026	26.13333333
4560	0.027	26.13333333
4620	0.027	26.2
4680	0.027	26.2
4740	0.027	26.26666667
4800	0.026	26.26666667
4860	0.027	26.26666667
4920	0.027	26.33333333
4980	0.028	26.4
5040	0.03	26.6
5100	0.028	26.8
5160	0.041	27.86666667
5220	0.026	27.93333333
5280	0.029	28.13333333
5340	0.028	28.26666667
5400	0.027	28.33333333
5460	0.026	28.26666667
5520	0.027	28.26666667
5580	0.026	28.2
5640	0.025	28.06666667
5700	0.026	28.06666667
5760	0.026	28
5820	0.026	27.93333333
5880	0.026	27.8
5940	0.026	27.53333333
6000	0.026	27.4
6060	0.027	26.46666667
6120	0.028	26.6
6180	0.027	26.46666667
6240	0.028	26.46666667
6300	0.027	26.46666667
6360	0.028	26.6
6420	0.028	26.66666667
6480	0.028	26.8
6540	0.029	27.06666667
6600	0.028	27.2
6660	0.029	27.4
6720	0.028	27.53333333
6780	0.029	27.73333333
6840	0.027	27.8
6900	0.027	27.86666667
6960	0.028	27.93333333
7020	0.028	27.93333333
7080	0.027	27.93333333
7140	0.027	27.86666667
7200	0.027	27.86666667
7260	0.026	27.73333333

7320	0.027	27.66666667
7380	0.026	27.53333333
7440	0.026	27.33333333
7500	0.026	27.2
7560	0.026	27
7620	0.027	26.93333333
7680	0.028	26.86666667
7740	0.026	26.8
7800	0.026	26.73333333
7860	0.027	26.66666667
7920	0.03	26.8
7980	0.028	26.86666667
8040	0.026	26.8
8100	0.027	26.8
8160	0.028	26.93333333
8220	0.029	27.06666667
8280	0.028	27.2
8340	0.028	27.33333333
8400	0.028	27.46666667
8460	0.028	27.6
8520	0.029	27.73333333
8580	0.028	27.73333333
8640	0.027	27.8
8700	0.032	28.2
8760	0.03	28.4
8820	0.026	28.13333333
8880	0.026	28
8940	0.026	28
9000	0.026	27.93333333
9060	0.026	27.8
9120	0.026	27.6
9180	0.027	27.53333333
9240	0.026	27.4
9300	0.027	27.33333333
9360	0.026	27.2
9420	0.027	27.06666667
9480	0.027	27
9540	0.026	26.93333333
9600	0.026	26.53333333
9660	0.027	26.33333333
9720	0.026	26.33333333
9780	0.026	26.33333333
9840	0.026	26.33333333
9900	0.026	26.33333333
9960	0.026	26.33333333
10020	0.025	26.26666667
10080	0.026	26.2

10140	0.026	26.2
10200	0.027	26.2
10260	0.027	26.26666667
10320	0.027	26.26666667
10380	0.026	26.2
10440	0.026	26.2
10500	0.026	26.2
10560	0.026	26.13333333
10620	0.026	26.13333333
10680	0.027	26.2
10740	0.026	26.2
10800	0.026	26.2
10860	0.027	26.26666667
10920	0.027	26.4
10980	0.026	26.4
11040	0.031	26.73333333
11100	0.026	26.66666667
11160	0.026	26.6
11220	0.026	26.53333333
11280	0.027	26.6
11340	0.028	26.73333333
11400	0.027	26.8
11460	0.028	26.93333333
11520	0.026	26.93333333
11580	0.026	26.86666667
11640	0.026	26.86666667
11700	0.027	26.93333333
11760	0.027	26.93333333
11820	0.027	26.93333333
11880	0.027	27
11940	0.027	26.73333333
12000	0.027	26.8
12060	0.027	26.86666667
12120	0.027	26.93333333
12180	0.029	27.06666667
12240	0.03	27.2
12300	0.026	27.13333333
12360	0.026	27
12420	0.027	27.06666667
12480	0.028	27.2
12540	0.027	27.26666667
12600	0.026	27.2
12660	0.027	27.2
12720	0.027	27.2
12780	0.026	27.13333333
12840	0.026	27.06666667
12900	0.026	27

12960	0.026	26.93333333
13020	0.026	26.86666667
13080	0.025	26.6
13140	0.025	26.26666667
13200	0.026	26.26666667
13260	0.025	26.2
13320	0.025	26.06666667
13380	0.026	25.93333333
13440	0.026	25.86666667
13500	0.026	25.86666667
13560	0.026	25.8
13620	0.026	25.73333333
13680	0.025	25.66666667
13740	0.026	25.66666667
13800	0.026	25.66666667
13860	0.026	25.66666667
13920	0.026	25.66666667
13980	0.026	25.73333333
14040	0.026	25.8
14100	0.026	25.8
14160	0.026	25.86666667
14220	0.026	25.93333333
14280	0.026	25.93333333
14340	0.029	26.13333333
14400	0.027	26.2
14460	0.027	26.26666667
14520	0.028	26.4
14580	0.027	26.53333333
14640	0.027	26.6
14700	0.027	26.66666667
14760	0.027	26.73333333
14820	0.027	26.8
14880	0.027	26.86666667
14940	0.027	26.93333333
15000	0.026	26.93333333
15060	0.026	26.93333333
15120	0.026	26.93333333
15180	0.026	26.93333333
15240	0.026	26.73333333
15300	0.026	26.66666667
15360	0.025	26.53333333
15420	0.025	26.33333333
15480	0.025	26.2
15540	0.025	26.06666667
15600	0.024	25.86666667
15660	0.025	25.73333333
15720	0.025	25.6

15780	0.027	25.6
15840	0.025	25.46666667
15900	0.026	25.46666667
15960	0.025	25.4
16020	0.025	25.33333333
16080	0.025	25.26666667
16140	0.025	25.2
16200	0.027	25.26666667
16260	0.026	25.33333333
16320	0.025	25.33333333
16380	0.025	25.33333333
16440	0.024	25.26666667
16500	0.025	25.33333333
16560	0.025	25.33333333
16620	0.024	25.26666667
16680	0.024	25.06666667
16740	0.024	25
16800	0.024	24.86666667
16860	0.025	24.86666667
16920	0.024	24.8
16980	0.025	24.8
17040	0.025	24.8
17100	0.025	24.66666667
17160	0.024	24.53333333
17220	0.024	24.46666667
17280	0.025	24.46666667
17340	0.024	24.46666667
17400	0.024	24.4
17460	0.025	24.4
17520	0.025	24.46666667
17580	0.025	24.53333333
17640	0.025	24.6
17700	0.025	24.66666667
17760	0.025	24.66666667
17820	0.025	24.73333333
17880	0.025	24.73333333
17940	0.025	24.73333333
18000	0.025	24.73333333
18060	0.025	24.8
18120	0.025	24.86666667
18180	0.025	24.86666667
18240	0.027	25.06666667
18300	0.024	25.06666667
18360	0.025	25.06666667
18420	0.025	25.06666667
18480	0.024	25
18540	0.024	24.93333333

18600	0.026	25
18660	0.024	24.93333333
18720	0.024	24.86666667
18780	0.025	24.86666667
18840	0.024	24.8
18900	0.024	24.73333333
18960	0.024	24.66666667
19020	0.024	24.6
19080	0.024	24.53333333
19140	0.024	24.33333333
19200	0.024	24.33333333
19260	0.024	24.26666667
19320	0.025	24.26666667
19380	0.024	24.26666667
19440	0.025	24.33333333
19500	0.025	24.26666667
19560	0.025	24.33333333
19620	0.025	24.4
19680	0.024	24.33333333
19740	0.024	24.33333333
19800	0.024	24.33333333
19860	0.024	24.33333333
19920	0.025	24.4
19980	0.025	24.46666667
20040	0.024	24.46666667
20100	0.024	24.46666667
20160	0.024	24.46666667
20220	0.024	24.4
20280	0.024	24.4
20340	0.024	24.33333333
20400	0.024	24.26666667
20460	0.024	24.2
20520	0.024	24.13333333
20580	0.024	24.13333333
20640	0.024	24.13333333
20700	0.024	24.13333333
20760	0.023	24.06666667
20820	0.023	23.93333333
20880	0.023	23.8
20940	0.023	23.73333333
21000	0.023	23.66666667
21060	0.023	23.6
21120	0.023	23.53333333
21180	0.023	23.46666667
21240	0.023	23.4
21300	0.022	23.26666667
21360	0.023	23.2

21420	0.023	23.13333333
21480	0.023	23.06666667
21540	0.023	23
21600	0.023	22.93333333
21660	0.023	22.93333333
21720	0.023	22.93333333
21780	0.023	22.93333333
21840	0.023	22.93333333
21900	0.023	22.93333333
21960	0.022	22.86666667
22020	0.032	23.46666667
22080	0.023	23.46666667
22140	0.023	23.46666667
22200	0.022	23.46666667
22260	0.023	23.46666667
22320	0.022	23.4
22380	0.022	23.33333333
22440	0.022	23.26666667
22500	0.022	23.2
22560	0.023	23.2
22620	0.023	23.2
22680	0.023	23.2
22740	0.022	23.13333333
22800	0.022	23.06666667
22860	0.022	23.06666667
22920	0.022	22.4
22980	0.022	22.33333333
23040	0.022	22.26666667
23100	0.022	22.26666667
23160	0.022	22.2
23220	0.023	22.26666667
23280	0.023	22.33333333
23340	0.023	22.4
23400	0.023	22.46666667
23460	0.022	22.4
23520	0.023	22.4
23580	0.022	22.33333333
23640	0.022	22.33333333
23700	0.022	22.33333333
23760	0.022	22.33333333
23820	0.022	22.33333333
23880	0.022	22.33333333
23940	0.024	22.46666667
24000	0.023	22.53333333
24060	0.022	22.53333333
24120	0.022	22.46666667
24180	0.022	22.4

24240	0.024	22.46666667
24300	0.022	22.4
24360	0.022	22.4
24420	0.022	22.33333333
24480	0.022	22.33333333
24540	0.023	22.4
24600	0.022	22.4
24660	0.022	22.4
24720	0.022	22.4
24780	0.023	22.46666667
24840	0.024	22.46666667
24900	0.023	22.46666667
24960	0.023	22.53333333
25020	0.024	22.66666667
25080	0.025	22.86666667
25140	0.026	23
25200	0.025	23.2
25260	0.025	23.4
25320	0.026	23.66666667
25380	0.026	23.93333333
25440	0.026	24.13333333
25500	0.026	24.4
25560	0.026	24.66666667
25620	0.027	25
25680	0.027	25.26666667
25740	0.026	25.4
25800	0.027	25.66666667
25860	0.028	26
25920	0.026	26.13333333
25980	0.027	26.26666667
26040	0.028	26.4
26100	0.029	26.66666667
26160	0.029	26.93333333
26220	0.029	27.13333333
26280	0.029	27.33333333
26340	0.028	27.46666667
26400	0.028	27.6
26460	0.028	27.73333333
26520	0.028	27.8
26580	0.028	27.86666667
26640	0.028	28
26700	0.027	28
26760	0.027	27.93333333
26820	0.027	28
26880	0.028	28.06666667
26940	0.026	27.93333333
27000	0.025	27.66666667

27060	0.024	27.33333333
27120	0.024	27
27180	0.024	26.66666667
27240	0.023	26.33333333
27300	0.023	26
27360	0.024	25.73333333
27420	0.024	25.46666667
27480	0.026	25.33333333
27540	0.027	25.26666667
27600	0.024	25.06666667
27660	0.024	24.86666667
27720	0.024	24.66666667
27780	0.024	24.4

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_054
Test Start Time	6:30:30 AM
Test Start Date	8/25/2020
Test Length [D:H:M]	0:06:17
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.023
Mass Minimum [mg/m3]	0.011
Mass Maximum [mg/m3]	0.119
Mass TWA [mg/m3]	0.018
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	377

Max Instant Conc.	Max 15 min TWA Conc.
119	42.46666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.119			
120	0.038			
180	0.038			
240	0.039			
300	0.037			
360	0.038			
420	0.038			
480	0.036			
540	0.036			
600	0.036			
660	0.036			
720	0.036			
780	0.038			
840	0.035			
900	0.037			42.46666667
960	0.036			36.93333333
1020	0.036			36.8
1080	0.036			36.66666667
1140	0.035			36.4
1200	0.035			36.26666667
1260	0.035			36.06666667
1320	0.034			35.8
1380	0.034			35.66666667
1440	0.033			35.46666667
1500	0.034			35.33333333
1560	0.033			35.13333333
1620	0.033			34.93333333

1680	0.033	34.6
1740	0.033	34.46666667
1800	0.033	34.2
1860	0.033	34
1920	0.033	33.8
1980	0.032	33.53333333
2040	0.032	33.33333333
2100	0.032	33.13333333
2160	0.032	32.93333333
2220	0.031	32.73333333
2280	0.031	32.53333333
2340	0.033	32.53333333
2400	0.039	32.86666667
2460	0.04	33.33333333
2520	0.045	34.13333333
2580	0.043	34.8
2640	0.039	35.2
2700	0.036	35.4
2760	0.036	35.6
2820	0.04	36.06666667
2880	0.04	36.6
2940	0.042	37.26666667
3000	0.057	38.93333333
3060	0.046	39.86666667
3120	0.032	39.93333333
3180	0.032	40
3240	0.031	39.86666667
3300	0.036	39.66666667
3360	0.034	39.26666667
3420	0.031	38.33333333
3480	0.03	37.46666667
3540	0.029	36.8
3600	0.028	36.26666667
3660	0.03	35.86666667
3720	0.03	35.2
3780	0.031	34.6
3840	0.031	33.86666667
3900	0.031	32.13333333
3960	0.03	31.06666667
4020	0.029	30.86666667
4080	0.029	30.66666667
4140	0.029	30.53333333
4200	0.029	30.06666667
4260	0.027	29.6
4320	0.027	29.33333333
4380	0.028	29.2
4440	0.028	29.13333333

4500	0.028	29.13333333
4560	0.028	29
4620	0.027	28.8
4680	0.028	28.6
4740	0.028	28.4
4800	0.027	28.13333333
4860	0.027	27.93333333
4920	0.027	27.8
4980	0.027	27.66666667
5040	0.027	27.53333333
5100	0.027	27.4
5160	0.026	27.33333333
5220	0.027	27.33333333
5280	0.027	27.26666667
5340	0.027	27.2
5400	0.027	27.13333333
5460	0.027	27.06666667
5520	0.027	27.06666667
5580	0.027	27
5640	0.026	26.86666667
5700	0.026	26.8
5760	0.026	26.73333333
5820	0.026	26.66666667
5880	0.026	26.6
5940	0.028	26.66666667
6000	0.028	26.73333333
6060	0.028	26.86666667
6120	0.028	26.93333333
6180	0.028	27
6240	0.028	27.06666667
6300	0.027	27.06666667
6360	0.028	27.13333333
6420	0.029	27.26666667
6480	0.03	27.46666667
6540	0.03	27.73333333
6600	0.028	27.86666667
6660	0.027	27.93333333
6720	0.026	27.93333333
6780	0.027	28
6840	0.025	27.8
6900	0.023	27.46666667
6960	0.024	27.2
7020	0.023	26.86666667
7080	0.023	26.53333333
7140	0.023	26.2
7200	0.023	25.93333333
7260	0.022	25.53333333

7320	0.022	25.06666667
7380	0.022	24.53333333
7440	0.022	24
7500	0.023	23.66666667
7560	0.022	23.33333333
7620	0.022	23.06666667
7680	0.022	22.73333333
7740	0.022	22.53333333
7800	0.022	22.46666667
7860	0.022	22.33333333
7920	0.022	22.26666667
7980	0.021	22.13333333
8040	0.021	22
8100	0.023	22
8160	0.022	22
8220	0.021	21.93333333
8280	0.021	21.86666667
8340	0.021	21.8
8400	0.021	21.66666667
8460	0.021	21.6
8520	0.022	21.6
8580	0.021	21.53333333
8640	0.021	21.46666667
8700	0.021	21.4
8760	0.021	21.33333333
8820	0.02	21.2
8880	0.02	21.13333333
8940	0.021	21.13333333
9000	0.02	20.93333333
9060	0.022	20.93333333
9120	0.021	20.93333333
9180	0.021	20.93333333
9240	0.022	21
9300	0.021	21
9360	0.021	21
9420	0.021	20.93333333
9480	0.021	20.93333333
9540	0.023	21.06666667
9600	0.02	21
9660	0.021	21
9720	0.021	21.06666667
9780	0.021	21.13333333
9840	0.021	21.13333333
9900	0.021	21.2
9960	0.021	21.13333333
10020	0.022	21.2
10080	0.022	21.26666667

10140	0.023	21.33333333
10200	0.022	21.4
10260	0.023	21.53333333
10320	0.023	21.66666667
10380	0.024	21.86666667
10440	0.025	22
10500	0.024	22.26666667
10560	0.025	22.53333333
10620	0.025	22.8
10680	0.025	23.06666667
10740	0.024	23.26666667
10800	0.026	23.6
10860	0.024	23.8
10920	0.024	23.93333333
10980	0.024	24.06666667
11040	0.024	24.13333333
11100	0.024	24.26666667
11160	0.024	24.33333333
11220	0.024	24.4
11280	0.027	24.6
11340	0.024	24.53333333
11400	0.024	24.53333333
11460	0.024	24.46666667
11520	0.024	24.4
11580	0.024	24.33333333
11640	0.024	24.33333333
11700	0.024	24.2
11760	0.024	24.2
11820	0.024	24.2
11880	0.024	24.2
11940	0.024	24.2
12000	0.024	24.2
12060	0.025	24.26666667
12120	0.024	24.26666667
12180	0.024	24.06666667
12240	0.024	24.06666667
12300	0.025	24.13333333
12360	0.024	24.13333333
12420	0.024	24.13333333
12480	0.024	24.13333333
12540	0.023	24.06666667
12600	0.024	24.06666667
12660	0.022	23.93333333
12720	0.02	23.66666667
12780	0.021	23.46666667
12840	0.02	23.2
12900	0.02	22.93333333

12960	0.019	22.53333333
13020	0.019	22.2
13080	0.019	21.86666667
13140	0.019	21.53333333
13200	0.018	21.06666667
13260	0.019	20.73333333
13320	0.018	20.33333333
13380	0.018	19.93333333
13440	0.018	19.6
13500	0.017	19.13333333
13560	0.017	18.8
13620	0.017	18.6
13680	0.016	18.26666667
13740	0.016	18
13800	0.015	17.66666667
13860	0.015	17.4
13920	0.014	17.06666667
13980	0.013	16.66666667
14040	0.013	16.26666667
14100	0.014	16
14160	0.013	15.6
14220	0.013	15.26666667
14280	0.012	14.86666667
14340	0.012	14.46666667
14400	0.012	14.13333333
14460	0.013	13.86666667
14520	0.013	13.6
14580	0.013	13.4
14640	0.013	13.2
14700	0.013	13.06666667
14760	0.013	12.93333333
14820	0.013	12.86666667
14880	0.014	12.93333333
14940	0.013	12.93333333
15000	0.013	12.86666667
15060	0.014	12.93333333
15120	0.014	13
15180	0.014	13.13333333
15240	0.013	13.2
15300	0.015	13.4
15360	0.015	13.53333333
15420	0.014	13.6
15480	0.013	13.6
15540	0.014	13.66666667
15600	0.014	13.73333333
15660	0.015	13.86666667
15720	0.013	13.86666667

15780	0.013	13.8
15840	0.013	13.8
15900	0.013	13.8
15960	0.013	13.73333333
16020	0.012	13.6
16080	0.012	13.46666667
16140	0.012	13.4
16200	0.012	13.2
16260	0.012	13
16320	0.012	12.86666667
16380	0.011	12.73333333
16440	0.011	12.53333333
16500	0.012	12.4
16560	0.012	12.2
16620	0.011	12.06666667
16680	0.011	11.93333333
16740	0.012	11.86666667
16800	0.012	11.8
16860	0.012	11.73333333
16920	0.012	11.73333333
16980	0.012	11.73333333
17040	0.013	11.8
17100	0.013	11.86666667
17160	0.013	11.93333333
17220	0.014	12.06666667
17280	0.014	12.26666667
17340	0.014	12.46666667
17400	0.014	12.6
17460	0.014	12.73333333
17520	0.014	12.93333333
17580	0.014	13.13333333
17640	0.014	13.26666667
17700	0.014	13.4
17760	0.014	13.53333333
17820	0.015	13.73333333
17880	0.014	13.86666667
17940	0.014	13.93333333
18000	0.015	14.06666667
18060	0.015	14.2
18120	0.015	14.26666667
18180	0.015	14.33333333
18240	0.015	14.4
18300	0.015	14.46666667
18360	0.015	14.53333333
18420	0.015	14.6
18480	0.016	14.73333333
18540	0.016	14.86666667

18600	0.017	15.06666667
18660	0.017	15.26666667
18720	0.017	15.4
18780	0.018	15.66666667
18840	0.018	15.93333333
18900	0.018	16.13333333
18960	0.019	16.4
19020	0.019	16.66666667
19080	0.019	16.93333333
19140	0.019	17.2
19200	0.019	17.46666667
19260	0.019	17.73333333
19320	0.019	18
19380	0.02	18.26666667
19440	0.02	18.53333333
19500	0.02	18.73333333
19560	0.021	19
19620	0.021	19.26666667
19680	0.021	19.46666667
19740	0.021	19.66666667
19800	0.021	19.86666667
19860	0.019	19.86666667
19920	0.019	19.86666667
19980	0.02	19.93333333
20040	0.02	20
20100	0.02	20.06666667
20160	0.02	20.13333333
20220	0.02	20.2
20280	0.019	20.13333333
20340	0.018	20
20400	0.018	19.86666667
20460	0.018	19.66666667
20520	0.018	19.46666667
20580	0.018	19.26666667
20640	0.018	19.06666667
20700	0.019	18.93333333
20760	0.019	18.93333333
20820	0.019	18.93333333
20880	0.019	18.86666667
20940	0.019	18.8
21000	0.019	18.73333333
21060	0.019	18.66666667
21120	0.019	18.6
21180	0.02	18.66666667
21240	0.02	18.8
21300	0.02	18.93333333
21360	0.021	19.13333333

21420	0.021	19.33333333
21480	0.021	19.53333333
21540	0.021	19.73333333
21600	0.022	19.93333333
21660	0.023	20.2
21720	0.022	20.4
21780	0.022	20.6
21840	0.021	20.73333333
21900	0.022	20.93333333
21960	0.023	21.2
22020	0.022	21.4
22080	0.024	21.66666667
22140	0.023	21.86666667
22200	0.024	22.13333333
22260	0.023	22.26666667
22320	0.023	22.4
22380	0.024	22.6
22440	0.025	22.86666667
22500	0.024	23
22560	0.023	23
22620	0.024	23.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_055
Test Start Time	7:09:33 AM
Test Start Date	8/26/2020
Test Length [D:H:M]	1:00:00
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.01
Mass Minimum [mg/m3]	0.002
Mass Maximum [mg/m3]	0.046
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1440

Max Instant Conc.	Max 15 min TWA Conc.
46	19.8

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.002		
120	0.003		
180	0.002		
240	0.002		
300	0.003		
360	0.004		
420	0.003		
480	0.003		
540	0.003		
600	0.002		
660	0.002		
720	0.002		
780	0.002		
840	0.003		
900	0.003		
960	0.004		
1020	0.004		
1080	0.003		
1140	0.003		
1200	0.003		
1260	0.003		
1320	0.003		
1380	0.003		
1440	0.003		
1500	0.003		
1560	0.003		
1620	0.003		

15 min TWA Conc.
2.6
2.733333333
2.8
2.866666667
2.933333333
2.933333333
2.866666667
2.866666667
2.866666667
2.866666667
2.933333333
3
3.066666667

1680	0.003	3.133333333
1740	0.003	3.133333333
1800	0.003	3.133333333
1860	0.003	3.066666667
1920	0.003	3
1980	0.003	3
2040	0.003	3
2100	0.004	3.066666667
2160	0.004	3.133333333
2220	0.004	3.2
2280	0.004	3.266666667
2340	0.004	3.333333333
2400	0.004	3.4
2460	0.004	3.466666667
2520	0.003	3.466666667
2580	0.004	3.533333333
2640	0.004	3.6
2700	0.004	3.666666667
2760	0.004	3.733333333
2820	0.004	3.8
2880	0.004	3.866666667
2940	0.004	3.933333333
3000	0.005	4
3060	0.005	4.066666667
3120	0.005	4.133333333
3180	0.004	4.133333333
3240	0.004	4.133333333
3300	0.004	4.133333333
3360	0.004	4.133333333
3420	0.004	4.2
3480	0.005	4.266666667
3540	0.004	4.266666667
3600	0.005	4.333333333
3660	0.005	4.4
3720	0.004	4.4
3780	0.005	4.466666667
3840	0.005	4.533333333
3900	0.006	4.6
3960	0.005	4.6
4020	0.005	4.6
4080	0.005	4.666666667
4140	0.005	4.733333333
4200	0.005	4.8
4260	0.005	4.866666667
4320	0.005	4.933333333
4380	0.005	4.933333333
4440	0.005	5

4500	0.005	5
4560	0.004	4.933333333
4620	0.005	5
4680	0.004	4.933333333
4740	0.004	4.866666667
4800	0.004	4.733333333
4860	0.004	4.666666667
4920	0.004	4.6
4980	0.004	4.533333333
5040	0.005	4.533333333
5100	0.005	4.533333333
5160	0.005	4.533333333
5220	0.005	4.533333333
5280	0.005	4.533333333
5340	0.005	4.533333333
5400	0.005	4.533333333
5460	0.005	4.6
5520	0.006	4.666666667
5580	0.007	4.866666667
5640	0.006	5
5700	0.005	5.066666667
5760	0.006	5.2
5820	0.006	5.333333333
5880	0.006	5.466666667
5940	0.005	5.466666667
6000	0.005	5.466666667
6060	0.005	5.466666667
6120	0.006	5.533333333
6180	0.005	5.533333333
6240	0.005	5.533333333
6300	0.005	5.533333333
6360	0.005	5.533333333
6420	0.006	5.533333333
6480	0.005	5.4
6540	0.005	5.333333333
6600	0.005	5.333333333
6660	0.005	5.266666667
6720	0.005	5.2
6780	0.005	5.133333333
6840	0.005	5.133333333
6900	0.006	5.2
6960	0.006	5.266666667
7020	0.006	5.266666667
7080	0.006	5.333333333
7140	0.006	5.4
7200	0.006	5.466666667
7260	0.006	5.533333333

7320	0.006	5.533333333
7380	0.008	5.733333333
7440	0.006	5.8
7500	0.006	5.866666667
7560	0.006	5.933333333
7620	0.006	6
7680	0.006	6.066666667
7740	0.007	6.2
7800	0.006	6.2
7860	0.007	6.266666667
7920	0.007	6.333333333
7980	0.006	6.333333333
8040	0.007	6.4
8100	0.007	6.466666667
8160	0.006	6.466666667
8220	0.006	6.466666667
8280	0.006	6.333333333
8340	0.007	6.4
8400	0.006	6.4
8460	0.007	6.466666667
8520	0.006	6.466666667
8580	0.007	6.533333333
8640	0.007	6.533333333
8700	0.007	6.6
8760	0.007	6.6
8820	0.007	6.6
8880	0.007	6.666666667
8940	0.007	6.666666667
9000	0.007	6.666666667
9060	0.007	6.733333333
9120	0.007	6.8
9180	0.006	6.8
9240	0.007	6.8
9300	0.009	7
9360	0.007	7
9420	0.007	7.066666667
9480	0.006	7
9540	0.007	7
9600	0.007	7
9660	0.006	6.933333333
9720	0.007	6.933333333
9780	0.006	6.866666667
9840	0.007	6.866666667
9900	0.007	6.866666667
9960	0.007	6.866666667
10020	0.007	6.866666667
10080	0.007	6.933333333

10140	0.007	6.933333333
10200	0.007	6.8
10260	0.007	6.8
10320	0.007	6.8
10380	0.007	6.866666667
10440	0.007	6.866666667
10500	0.007	6.866666667
10560	0.007	6.933333333
10620	0.007	6.933333333
10680	0.008	7.066666667
10740	0.008	7.133333333
10800	0.008	7.2
10860	0.008	7.266666667
10920	0.009	7.4
10980	0.009	7.533333333
11040	0.008	7.6
11100	0.008	7.666666667
11160	0.008	7.733333333
11220	0.008	7.8
11280	0.009	7.933333333
11340	0.008	8
11400	0.008	8.066666667
11460	0.009	8.2
11520	0.008	8.266666667
11580	0.008	8.266666667
11640	0.008	8.266666667
11700	0.009	8.333333333
11760	0.008	8.333333333
11820	0.008	8.266666667
11880	0.008	8.2
11940	0.008	8.2
12000	0.009	8.266666667
12060	0.011	8.466666667
12120	0.009	8.533333333
12180	0.01	8.6
12240	0.009	8.666666667
12300	0.009	8.733333333
12360	0.008	8.666666667
12420	0.009	8.733333333
12480	0.008	8.733333333
12540	0.009	8.8
12600	0.009	8.8
12660	0.009	8.866666667
12720	0.009	8.933333333
12780	0.008	8.933333333
12840	0.009	9
12900	0.009	9

12960	0.009	8.866666667
13020	0.011	9
13080	0.011	9.066666667
13140	0.009	9.066666667
13200	0.008	9
13260	0.009	9.066666667
13320	0.008	9
13380	0.008	9
13440	0.008	8.933333333
13500	0.008	8.866666667
13560	0.008	8.8
13620	0.008	8.733333333
13680	0.008	8.733333333
13740	0.008	8.666666667
13800	0.009	8.666666667
13860	0.009	8.666666667
13920	0.009	8.533333333
13980	0.009	8.4
14040	0.009	8.4
14100	0.008	8.4
14160	0.009	8.4
14220	0.009	8.466666667
14280	0.009	8.533333333
14340	0.008	8.533333333
14400	0.009	8.6
14460	0.009	8.666666667
14520	0.009	8.733333333
14580	0.009	8.8
14640	0.014	9.2
14700	0.01	9.266666667
14760	0.009	9.266666667
14820	0.009	9.266666667
14880	0.009	9.266666667
14940	0.009	9.266666667
15000	0.009	9.333333333
15060	0.01	9.4
15120	0.009	9.4
15180	0.01	9.466666667
15240	0.01	9.6
15300	0.01	9.666666667
15360	0.01	9.733333333
15420	0.01	9.8
15480	0.01	9.866666667
15540	0.01	9.6
15600	0.01	9.6
15660	0.01	9.666666667
15720	0.01	9.733333333

15780	0.011	9.866666667
15840	0.01	9.933333333
15900	0.009	9.933333333
15960	0.009	9.866666667
16020	0.009	9.866666667
16080	0.009	9.8
16140	0.009	9.733333333
16200	0.009	9.666666667
16260	0.009	9.6
16320	0.009	9.533333333
16380	0.009	9.466666667
16440	0.009	9.4
16500	0.009	9.333333333
16560	0.008	9.2
16620	0.009	9.133333333
16680	0.009	9
16740	0.009	8.933333333
16800	0.009	8.933333333
16860	0.009	8.933333333
16920	0.009	8.933333333
16980	0.009	8.933333333
17040	0.009	8.933333333
17100	0.012	9.133333333
17160	0.01	9.2
17220	0.01	9.266666667
17280	0.009	9.266666667
17340	0.01	9.333333333
17400	0.01	9.4
17460	0.01	9.533333333
17520	0.01	9.6
17580	0.01	9.666666667
17640	0.01	9.733333333
17700	0.01	9.8
17760	0.01	9.866666667
17820	0.01	9.933333333
17880	0.01	10
17940	0.01	10.06666667
18000	0.01	9.933333333
18060	0.011	10
18120	0.01	10
18180	0.01	10.06666667
18240	0.01	10.06666667
18300	0.01	10.06666667
18360	0.011	10.13333333
18420	0.011	10.2
18480	0.011	10.26666667
18540	0.01	10.26666667

18600	0.011	10.33333333
18660	0.01	10.33333333
18720	0.01	10.33333333
18780	0.013	10.53333333
18840	0.011	10.6
18900	0.01	10.6
18960	0.01	10.53333333
19020	0.01	10.53333333
19080	0.01	10.53333333
19140	0.01	10.53333333
19200	0.009	10.46666667
19260	0.01	10.4
19320	0.009	10.26666667
19380	0.009	10.13333333
19440	0.01	10.13333333
19500	0.01	10.06666667
19560	0.01	10.06666667
19620	0.01	10.06666667
19680	0.01	9.866666667
19740	0.01	9.8
19800	0.01	9.8
19860	0.01	9.8
19920	0.009	9.733333333
19980	0.01	9.733333333
20040	0.009	9.666666667
20100	0.009	9.666666667
20160	0.01	9.666666667
20220	0.01	9.733333333
20280	0.01	9.8
20340	0.011	9.866666667
20400	0.011	9.933333333
20460	0.01	9.933333333
20520	0.01	9.933333333
20580	0.01	9.933333333
20640	0.01	9.933333333
20700	0.01	9.933333333
20760	0.01	9.933333333
20820	0.01	10
20880	0.012	10.13333333
20940	0.012	10.33333333
21000	0.01	10.4
21060	0.012	10.53333333
21120	0.01	10.53333333
21180	0.009	10.46666667
21240	0.01	10.4
21300	0.01	10.33333333
21360	0.01	10.33333333

21420	0.009	10.26666667
21480	0.009	10.2
21540	0.01	10.2
21600	0.01	10.2
21660	0.009	10.13333333
21720	0.009	10.06666667
21780	0.01	9.933333333
21840	0.009	9.733333333
21900	0.011	9.8
21960	0.009	9.6
22020	0.01	9.6
22080	0.011	9.733333333
22140	0.012	9.866666667
22200	0.009	9.8
22260	0.01	9.8
22320	0.01	9.866666667
22380	0.01	9.933333333
22440	0.009	9.866666667
22500	0.009	9.8
22560	0.01	9.866666667
22620	0.01	9.933333333
22680	0.01	9.933333333
22740	0.009	9.933333333
22800	0.009	9.8
22860	0.009	9.8
22920	0.01	9.8
22980	0.01	9.733333333
23040	0.01	9.6
23100	0.009	9.6
23160	0.01	9.6
23220	0.01	9.6
23280	0.01	9.6
23340	0.01	9.666666667
23400	0.011	9.8
23460	0.01	9.8
23520	0.011	9.866666667
23580	0.01	9.866666667
23640	0.01	9.933333333
23700	0.01	10
23760	0.011	10.13333333
23820	0.01	10.13333333
23880	0.009	10.06666667
23940	0.009	10
24000	0.009	10
24060	0.01	10
24120	0.009	9.933333333
24180	0.009	9.866666667

24240	0.009	9.8
24300	0.009	9.666666667
24360	0.009	9.6
24420	0.009	9.466666667
24480	0.009	9.4
24540	0.01	9.4
24600	0.009	9.333333333
24660	0.01	9.266666667
24720	0.01	9.266666667
24780	0.01	9.333333333
24840	0.011	9.466666667
24900	0.01	9.533333333
24960	0.01	9.533333333
25020	0.01	9.6
25080	0.01	9.666666667
25140	0.009	9.666666667
25200	0.01	9.733333333
25260	0.01	9.8
25320	0.009	9.8
25380	0.01	9.866666667
25440	0.01	9.866666667
25500	0.01	9.933333333
25560	0.01	9.933333333
25620	0.011	10
25680	0.01	10
25740	0.011	10
25800	0.011	10.06666667
25860	0.01	10.06666667
25920	0.01	10.06666667
25980	0.01	10.06666667
26040	0.01	10.13333333
26100	0.01	10.13333333
26160	0.01	10.13333333
26220	0.011	10.26666667
26280	0.01	10.26666667
26340	0.009	10.2
26400	0.01	10.2
26460	0.011	10.26666667
26520	0.01	10.2
26580	0.01	10.2
26640	0.011	10.2
26700	0.01	10.13333333
26760	0.01	10.13333333
26820	0.01	10.13333333
26880	0.01	10.13333333
26940	0.01	10.13333333
27000	0.01	10.13333333

27060	0.009	10.06666667
27120	0.01	10
27180	0.01	10
27240	0.01	10.06666667
27300	0.01	10.06666667
27360	0.01	10
27420	0.01	10
27480	0.01	10
27540	0.01	9.933333333
27600	0.01	9.933333333
27660	0.01	9.933333333
27720	0.009	9.866666667
27780	0.009	9.8
27840	0.01	9.8
27900	0.009	9.733333333
27960	0.01	9.8
28020	0.01	9.8
28080	0.01	9.8
28140	0.01	9.8
28200	0.012	9.933333333
28260	0.01	9.933333333
28320	0.009	9.866666667
28380	0.01	9.866666667
28440	0.01	9.866666667
28500	0.01	9.866666667
28560	0.01	9.866666667
28620	0.009	9.866666667
28680	0.01	9.933333333
28740	0.01	9.933333333
28800	0.01	10
28860	0.01	10
28920	0.01	10
28980	0.01	10
29040	0.01	10
29100	0.009	9.8
29160	0.01	9.8
29220	0.01	9.866666667
29280	0.01	9.866666667
29340	0.01	9.866666667
29400	0.01	9.866666667
29460	0.01	9.866666667
29520	0.009	9.866666667
29580	0.01	9.866666667
29640	0.01	9.866666667
29700	0.01	9.866666667
29760	0.009	9.8
29820	0.01	9.8

29880	0.009	9.733333333
29940	0.009	9.666666667
30000	0.01	9.733333333
30060	0.01	9.733333333
30120	0.009	9.666666667
30180	0.009	9.6
30240	0.01	9.6
30300	0.009	9.533333333
30360	0.01	9.533333333
30420	0.01	9.6
30480	0.01	9.6
30540	0.009	9.533333333
30600	0.01	9.533333333
30660	0.009	9.533333333
30720	0.009	9.466666667
30780	0.01	9.533333333
30840	0.01	9.6
30900	0.01	9.6
30960	0.01	9.6
31020	0.01	9.666666667
31080	0.01	9.733333333
31140	0.009	9.666666667
31200	0.01	9.733333333
31260	0.01	9.733333333
31320	0.01	9.733333333
31380	0.01	9.733333333
31440	0.01	9.8
31500	0.01	9.8
31560	0.009	9.8
31620	0.009	9.8
31680	0.01	9.8
31740	0.01	9.8
31800	0.01	9.8
31860	0.01	9.8
31920	0.01	9.8
31980	0.01	9.8
32040	0.01	9.866666667
32100	0.01	9.866666667
32160	0.01	9.866666667
32220	0.01	9.866666667
32280	0.01	9.866666667
32340	0.009	9.8
32400	0.01	9.8
32460	0.009	9.8
32520	0.009	9.8
32580	0.009	9.733333333
32640	0.009	9.666666667

32700	0.009	9.6
32760	0.01	9.6
32820	0.01	9.6
32880	0.01	9.6
32940	0.01	9.6
33000	0.01	9.6
33060	0.009	9.533333333
33120	0.009	9.466666667
33180	0.009	9.4
33240	0.009	9.4
33300	0.009	9.333333333
33360	0.009	9.333333333
33420	0.009	9.333333333
33480	0.009	9.333333333
33540	0.009	9.333333333
33600	0.012	9.533333333
33660	0.009	9.466666667
33720	0.01	9.466666667
33780	0.01	9.466666667
33840	0.01	9.466666667
33900	0.009	9.4
33960	0.01	9.466666667
34020	0.009	9.466666667
34080	0.009	9.466666667
34140	0.01	9.533333333
34200	0.009	9.533333333
34260	0.009	9.533333333
34320	0.009	9.533333333
34380	0.009	9.533333333
34440	0.01	9.6
34500	0.009	9.4
34560	0.009	9.4
34620	0.009	9.333333333
34680	0.009	9.266666667
34740	0.009	9.2
34800	0.009	9.2
34860	0.009	9.133333333
34920	0.009	9.133333333
34980	0.009	9.133333333
35040	0.009	9.066666667
35100	0.009	9.066666667
35160	0.009	9.066666667
35220	0.009	9.066666667
35280	0.011	9.2
35340	0.01	9.2
35400	0.01	9.266666667
35460	0.01	9.333333333

35520	0.01	9.4
35580	0.01	9.466666667
35640	0.01	9.533333333
35700	0.01	9.6
35760	0.01	9.666666667
35820	0.01	9.733333333
35880	0.01	9.8
35940	0.01	9.866666667
36000	0.01	9.933333333
36060	0.01	10
36120	0.01	10.06666667
36180	0.01	10
36240	0.01	10
36300	0.011	10.06666667
36360	0.011	10.13333333
36420	0.011	10.2
36480	0.011	10.26666667
36540	0.011	10.33333333
36600	0.01	10.33333333
36660	0.011	10.4
36720	0.01	10.4
36780	0.01	10.4
36840	0.01	10.4
36900	0.01	10.4
36960	0.01	10.4
37020	0.01	10.4
37080	0.01	10.4
37140	0.01	10.4
37200	0.01	10.33333333
37260	0.01	10.26666667
37320	0.01	10.2
37380	0.01	10.13333333
37440	0.01	10.06666667
37500	0.01	10.06666667
37560	0.009	9.933333333
37620	0.01	9.933333333
37680	0.01	9.933333333
37740	0.01	9.933333333
37800	0.01	9.933333333
37860	0.01	9.933333333
37920	0.01	9.933333333
37980	0.009	9.866666667
38040	0.009	9.8
38100	0.009	9.733333333
38160	0.009	9.666666667
38220	0.009	9.6
38280	0.009	9.533333333

38340	0.009	9.466666667
38400	0.009	9.4
38460	0.009	9.4
38520	0.009	9.333333333
38580	0.009	9.266666667
38640	0.009	9.2
38700	0.01	9.2
38760	0.009	9.133333333
38820	0.01	9.133333333
38880	0.01	9.2
38940	0.01	9.266666667
39000	0.009	9.266666667
39060	0.009	9.266666667
39120	0.009	9.266666667
39180	0.009	9.266666667
39240	0.009	9.266666667
39300	0.009	9.266666667
39360	0.009	9.266666667
39420	0.009	9.266666667
39480	0.009	9.266666667
39540	0.01	9.333333333
39600	0.009	9.266666667
39660	0.009	9.266666667
39720	0.01	9.266666667
39780	0.01	9.266666667
39840	0.01	9.266666667
39900	0.009	9.266666667
39960	0.009	9.266666667
40020	0.01	9.333333333
40080	0.009	9.333333333
40140	0.009	9.333333333
40200	0.009	9.333333333
40260	0.009	9.333333333
40320	0.009	9.333333333
40380	0.009	9.333333333
40440	0.009	9.266666667
40500	0.009	9.266666667
40560	0.009	9.266666667
40620	0.009	9.2
40680	0.009	9.133333333
40740	0.009	9.066666667
40800	0.009	9.066666667
40860	0.009	9.066666667
40920	0.009	9
40980	0.009	9
41040	0.009	9
41100	0.009	9

41160	0.009	9
41220	0.009	9
41280	0.009	9
41340	0.009	9
41400	0.009	9
41460	0.009	9
41520	0.01	9.066666667
41580	0.01	9.133333333
41640	0.009	9.133333333
41700	0.009	9.133333333
41760	0.01	9.2
41820	0.01	9.266666667
41880	0.01	9.333333333
41940	0.012	9.533333333
42000	0.013	9.8
42060	0.023	10.73333333
42120	0.013	11
42180	0.01	11.06666667
42240	0.01	11.13333333
42300	0.01	11.2
42360	0.012	11.4
42420	0.01	11.4
42480	0.01	11.4
42540	0.011	11.53333333
42600	0.012	11.73333333
42660	0.01	11.73333333
42720	0.011	11.8
42780	0.012	11.93333333
42840	0.012	11.93333333
42900	0.014	12
42960	0.01	11.13333333
43020	0.011	11
43080	0.01	11
43140	0.009	10.93333333
43200	0.01	10.93333333
43260	0.009	10.73333333
43320	0.009	10.66666667
43380	0.009	10.6
43440	0.009	10.46666667
43500	0.009	10.26666667
43560	0.009	10.2
43620	0.009	10.06666667
43680	0.009	9.866666667
43740	0.009	9.666666667
43800	0.009	9.333333333
43860	0.009	9.266666667
43920	0.009	9.133333333

43980	0.01	9.133333333
44040	0.009	9.133333333
44100	0.01	9.133333333
44160	0.009	9.133333333
44220	0.01	9.2
44280	0.01	9.266666667
44340	0.01	9.333333333
44400	0.01	9.4
44460	0.01	9.466666667
44520	0.011	9.6
44580	0.011	9.733333333
44640	0.012	9.933333333
44700	0.011	10.06666667
44760	0.011	10.2
44820	0.011	10.33333333
44880	0.012	10.46666667
44940	0.011	10.6
45000	0.011	10.66666667
45060	0.011	10.8
45120	0.011	10.86666667
45180	0.011	10.93333333
45240	0.01	10.93333333
45300	0.011	11
45360	0.011	11.06666667
45420	0.014	11.26666667
45480	0.02	11.86666667
45540	0.018	12.26666667
45600	0.014	12.46666667
45660	0.012	12.53333333
45720	0.012	12.6
45780	0.013	12.66666667
45840	0.012	12.73333333
45900	0.011	12.73333333
45960	0.01	12.66666667
46020	0.01	12.6
46080	0.009	12.46666667
46140	0.009	12.4
46200	0.01	12.33333333
46260	0.01	12.26666667
46320	0.01	12
46380	0.01	11.33333333
46440	0.01	10.8
46500	0.011	10.6
46560	0.011	10.53333333
46620	0.013	10.6
46680	0.02	11.06666667
46740	0.023	11.8

46800	0.029	13
46860	0.019	13.6
46920	0.02	14.26666667
46980	0.019	14.93333333
47040	0.017	15.46666667
47100	0.017	15.93333333
47160	0.013	16.13333333
47220	0.012	16.26666667
47280	0.011	16.33333333
47340	0.012	16.46666667
47400	0.012	16.53333333
47460	0.011	16.53333333
47520	0.01	16.33333333
47580	0.01	15.66666667
47640	0.01	14.8
47700	0.01	13.53333333
47760	0.01	12.93333333
47820	0.01	12.26666667
47880	0.01	11.66666667
47940	0.012	11.33333333
48000	0.014	11.13333333
48060	0.014	11.2
48120	0.013	11.26666667
48180	0.012	11.33333333
48240	0.012	11.33333333
48300	0.014	11.46666667
48360	0.014	11.66666667
48420	0.014	11.93333333
48480	0.013	12.13333333
48540	0.014	12.4
48600	0.013	12.6
48660	0.013	12.8
48720	0.013	13
48780	0.013	13.2
48840	0.015	13.4
48900	0.016	13.53333333
48960	0.017	13.73333333
49020	0.016	13.93333333
49080	0.015	14.13333333
49140	0.015	14.33333333
49200	0.015	14.4
49260	0.015	14.46666667
49320	0.015	14.53333333
49380	0.014	14.6
49440	0.013	14.53333333
49500	0.013	14.53333333
49560	0.013	14.53333333

49620	0.012	14.46666667
49680	0.012	14.4
49740	0.012	14.2
49800	0.012	13.93333333
49860	0.011	13.53333333
49920	0.011	13.2
49980	0.011	12.93333333
50040	0.011	12.66666667
50100	0.011	12.4
50160	0.011	12.13333333
50220	0.011	11.86666667
50280	0.011	11.66666667
50340	0.011	11.53333333
50400	0.011	11.4
50460	0.011	11.26666667
50520	0.013	11.33333333
50580	0.012	11.33333333
50640	0.011	11.26666667
50700	0.012	11.26666667
50760	0.012	11.33333333
50820	0.012	11.4
50880	0.012	11.46666667
50940	0.012	11.53333333
51000	0.012	11.6
51060	0.012	11.66666667
51120	0.011	11.66666667
51180	0.011	11.66666667
51240	0.011	11.66666667
51300	0.011	11.66666667
51360	0.011	11.66666667
51420	0.011	11.53333333
51480	0.011	11.46666667
51540	0.011	11.46666667
51600	0.01	11.33333333
51660	0.01	11.2
51720	0.01	11.06666667
51780	0.01	10.93333333
51840	0.01	10.8
51900	0.01	10.66666667
51960	0.011	10.6
52020	0.015	10.86666667
52080	0.014	11.06666667
52140	0.011	11.06666667
52200	0.017	11.46666667
52260	0.017	11.86666667
52320	0.014	12.06666667
52380	0.011	12.06666667

52440	0.01	12
52500	0.011	12.06666667
52560	0.01	12.06666667
52620	0.01	12.06666667
52680	0.01	12.06666667
52740	0.01	12.06666667
52800	0.01	12.06666667
52860	0.01	12
52920	0.01	11.66666667
52980	0.01	11.4
53040	0.011	11.4
53100	0.011	11
53160	0.011	10.6
53220	0.011	10.4
53280	0.011	10.4
53340	0.011	10.46666667
53400	0.01	10.4
53460	0.01	10.4
53520	0.011	10.46666667
53580	0.011	10.53333333
53640	0.011	10.6
53700	0.01	10.6
53760	0.01	10.6
53820	0.011	10.66666667
53880	0.01	10.66666667
53940	0.01	10.6
54000	0.011	10.6
54060	0.01	10.53333333
54120	0.01	10.46666667
54180	0.01	10.4
54240	0.01	10.33333333
54300	0.01	10.33333333
54360	0.011	10.4
54420	0.01	10.33333333
54480	0.01	10.26666667
54540	0.011	10.26666667
54600	0.011	10.33333333
54660	0.011	10.4
54720	0.011	10.4
54780	0.011	10.46666667
54840	0.011	10.53333333
54900	0.011	10.53333333
54960	0.011	10.6
55020	0.011	10.66666667
55080	0.011	10.73333333
55140	0.011	10.8
55200	0.01	10.8

55260	0.01	10.73333333
55320	0.01	10.73333333
55380	0.01	10.73333333
55440	0.01	10.66666667
55500	0.01	10.6
55560	0.01	10.53333333
55620	0.01	10.46666667
55680	0.01	10.4
55740	0.01	10.33333333
55800	0.01	10.26666667
55860	0.01	10.2
55920	0.01	10.13333333
55980	0.01	10.06666667
56040	0.01	10
56100	0.01	10
56160	0.01	10
56220	0.01	10
56280	0.01	10
56340	0.01	10
56400	0.01	10
56460	0.01	10
56520	0.01	10
56580	0.01	10
56640	0.01	10
56700	0.01	10
56760	0.011	10.06666667
56820	0.01	10.06666667
56880	0.01	10.06666667
56940	0.01	10.06666667
57000	0.01	10.06666667
57060	0.011	10.13333333
57120	0.011	10.2
57180	0.011	10.26666667
57240	0.011	10.33333333
57300	0.011	10.4
57360	0.011	10.46666667
57420	0.011	10.53333333
57480	0.011	10.6
57540	0.011	10.66666667
57600	0.011	10.73333333
57660	0.011	10.73333333
57720	0.011	10.8
57780	0.011	10.86666667
57840	0.011	10.93333333
57900	0.011	11
57960	0.01	10.93333333
58020	0.01	10.86666667

58080	0.011	10.86666667
58140	0.011	10.86666667
58200	0.011	10.86666667
58260	0.011	10.86666667
58320	0.011	10.86666667
58380	0.011	10.86666667
58440	0.046	13.2
58500	0.036	14.86666667
58560	0.031	16.2
58620	0.025	17.13333333
58680	0.025	18.06666667
58740	0.021	18.73333333
58800	0.016	19.06666667
58860	0.016	19.46666667
58920	0.014	19.73333333
58980	0.012	19.8
59040	0.011	19.8
59100	0.011	19.8
59160	0.011	19.8
59220	0.011	19.8
59280	0.011	19.8
59340	0.013	17.6
59400	0.013	16.06666667
59460	0.012	14.8
59520	0.012	13.93333333
59580	0.011	13
59640	0.012	12.4
59700	0.012	12.13333333
59760	0.012	11.86666667
59820	0.012	11.73333333
59880	0.012	11.73333333
59940	0.012	11.8
60000	0.012	11.86666667
60060	0.012	11.93333333
60120	0.012	12
60180	0.012	12.06666667
60240	0.012	12
60300	0.012	11.93333333
60360	0.011	11.86666667
60420	0.011	11.8
60480	0.012	11.86666667
60540	0.012	11.86666667
60600	0.011	11.8
60660	0.011	11.73333333
60720	0.011	11.66666667
60780	0.011	11.6
60840	0.011	11.53333333

60900	0.011	11.46666667
60960	0.01	11.33333333
61020	0.01	11.2
61080	0.011	11.13333333
61140	0.01	11
61200	0.011	10.93333333
61260	0.01	10.86666667
61320	0.011	10.86666667
61380	0.011	10.8
61440	0.011	10.73333333
61500	0.011	10.73333333
61560	0.011	10.73333333
61620	0.011	10.73333333
61680	0.01	10.66666667
61740	0.011	10.66666667
61800	0.011	10.66666667
61860	0.011	10.73333333
61920	0.011	10.8
61980	0.011	10.8
62040	0.011	10.86666667
62100	0.011	10.86666667
62160	0.011	10.93333333
62220	0.01	10.86666667
62280	0.01	10.8
62340	0.01	10.73333333
62400	0.01	10.66666667
62460	0.01	10.6
62520	0.01	10.53333333
62580	0.01	10.53333333
62640	0.01	10.46666667
62700	0.01	10.4
62760	0.011	10.4
62820	0.01	10.33333333
62880	0.01	10.26666667
62940	0.01	10.2
63000	0.01	10.13333333
63060	0.01	10.06666667
63120	0.011	10.13333333
63180	0.01	10.13333333
63240	0.011	10.2
63300	0.011	10.26666667
63360	0.01	10.26666667
63420	0.01	10.26666667
63480	0.01	10.26666667
63540	0.01	10.26666667
63600	0.009	10.2
63660	0.01	10.13333333

63720	0.01	10.13333333
63780	0.009	10.06666667
63840	0.009	10
63900	0.01	10
63960	0.01	10
64020	0.01	9.933333333
64080	0.01	9.933333333
64140	0.01	9.866666667
64200	0.009	9.733333333
64260	0.009	9.666666667
64320	0.009	9.6
64380	0.009	9.533333333
64440	0.009	9.466666667
64500	0.009	9.466666667
64560	0.01	9.466666667
64620	0.01	9.466666667
64680	0.01	9.533333333
64740	0.009	9.533333333
64800	0.009	9.466666667
64860	0.009	9.4
64920	0.009	9.333333333
64980	0.009	9.266666667
65040	0.01	9.266666667
65100	0.01	9.333333333
65160	0.01	9.4
65220	0.01	9.466666667
65280	0.01	9.533333333
65340	0.01	9.6
65400	0.01	9.666666667
65460	0.01	9.666666667
65520	0.01	9.666666667
65580	0.011	9.733333333
65640	0.01	9.8
65700	0.011	9.933333333
65760	0.01	10
65820	0.01	10.06666667
65880	0.01	10.13333333
65940	0.01	10.13333333
66000	0.01	10.13333333
66060	0.01	10.13333333
66120	0.01	10.13333333
66180	0.01	10.13333333
66240	0.01	10.13333333
66300	0.01	10.13333333
66360	0.01	10.13333333
66420	0.011	10.2
66480	0.01	10.13333333

66540	0.01	10.13333333
66600	0.01	10.06666667
66660	0.01	10.06666667
66720	0.01	10.06666667
66780	0.01	10.06666667
66840	0.011	10.13333333
66900	0.01	10.13333333
66960	0.01	10.13333333
67020	0.01	10.13333333
67080	0.01	10.13333333
67140	0.01	10.13333333
67200	0.01	10.13333333
67260	0.01	10.13333333
67320	0.01	10.06666667
67380	0.01	10.06666667
67440	0.011	10.13333333
67500	0.01	10.13333333
67560	0.01	10.13333333
67620	0.011	10.2
67680	0.01	10.2
67740	0.01	10.13333333
67800	0.01	10.13333333
67860	0.011	10.2
67920	0.01	10.2
67980	0.011	10.26666667
68040	0.01	10.26666667
68100	0.011	10.33333333
68160	0.01	10.33333333
68220	0.01	10.33333333
68280	0.011	10.4
68340	0.011	10.4
68400	0.011	10.46666667
68460	0.011	10.53333333
68520	0.011	10.53333333
68580	0.011	10.6
68640	0.011	10.66666667
68700	0.011	10.73333333
68760	0.011	10.73333333
68820	0.011	10.8
68880	0.011	10.8
68940	0.011	10.86666667
69000	0.011	10.86666667
69060	0.011	10.93333333
69120	0.01	10.93333333
69180	0.01	10.86666667
69240	0.01	10.8
69300	0.01	10.73333333

69360	0.011	10.73333333
69420	0.011	10.73333333
69480	0.01	10.66666667
69540	0.01	10.6
69600	0.01	10.53333333
69660	0.01	10.46666667
69720	0.01	10.4
69780	0.01	10.33333333
69840	0.01	10.26666667
69900	0.01	10.2
69960	0.01	10.13333333
70020	0.01	10.13333333
70080	0.01	10.13333333
70140	0.01	10.13333333
70200	0.01	10.13333333
70260	0.01	10.06666667
70320	0.01	10
70380	0.01	10
70440	0.01	10
70500	0.01	10
70560	0.01	10
70620	0.01	10
70680	0.01	10
70740	0.01	10
70800	0.01	10
70860	0.01	10
70920	0.01	10
70980	0.01	10
71040	0.01	10
71100	0.01	10
71160	0.01	10
71220	0.01	10
71280	0.01	10
71340	0.01	10
71400	0.01	10
71460	0.009	9.933333333
71520	0.01	9.933333333
71580	0.01	9.933333333
71640	0.01	9.933333333
71700	0.01	9.933333333
71760	0.01	9.933333333
71820	0.01	9.933333333
71880	0.01	9.933333333
71940	0.01	9.933333333
72000	0.01	9.933333333
72060	0.01	9.933333333
72120	0.01	9.933333333

72180	0.01	9.933333333
72240	0.01	9.933333333
72300	0.01	9.933333333
72360	0.01	10
72420	0.01	10
72480	0.01	10
72540	0.01	10
72600	0.01	10
72660	0.01	10
72720	0.01	10
72780	0.01	10
72840	0.01	10
72900	0.01	10
72960	0.01	10
73020	0.01	10
73080	0.01	10
73140	0.01	10
73200	0.01	10
73260	0.01	10
73320	0.01	10
73380	0.01	10
73440	0.01	10
73500	0.01	10
73560	0.01	10
73620	0.01	10
73680	0.01	10
73740	0.01	10
73800	0.01	10
73860	0.01	10
73920	0.01	10
73980	0.011	10.06666667
74040	0.011	10.13333333
74100	0.011	10.2
74160	0.01	10.2
74220	0.011	10.26666667
74280	0.01	10.26666667
74340	0.011	10.33333333
74400	0.01	10.33333333
74460	0.011	10.4
74520	0.01	10.4
74580	0.011	10.46666667
74640	0.01	10.46666667
74700	0.011	10.53333333
74760	0.011	10.6
74820	0.011	10.66666667
74880	0.011	10.66666667
74940	0.011	10.66666667

75000	0.011	10.66666667
75060	0.011	10.73333333
75120	0.011	10.73333333
75180	0.011	10.8
75240	0.011	10.8
75300	0.011	10.86666667
75360	0.011	10.86666667
75420	0.011	10.93333333
75480	0.011	10.93333333
75540	0.011	11
75600	0.011	11
75660	0.011	11
75720	0.011	11
75780	0.011	11
75840	0.011	11
75900	0.011	11
75960	0.011	11
76020	0.011	11
76080	0.011	11
76140	0.011	11
76200	0.011	11
76260	0.011	11
76320	0.01	10.93333333
76380	0.01	10.86666667
76440	0.01	10.8
76500	0.01	10.73333333
76560	0.011	10.73333333
76620	0.01	10.66666667
76680	0.01	10.6
76740	0.01	10.53333333
76800	0.01	10.46666667
76860	0.01	10.4
76920	0.01	10.33333333
76980	0.01	10.26666667
77040	0.01	10.2
77100	0.01	10.13333333
77160	0.01	10.06666667
77220	0.01	10.06666667
77280	0.01	10.06666667
77340	0.01	10.06666667
77400	0.01	10.06666667
77460	0.01	10
77520	0.01	10
77580	0.01	10
77640	0.01	10
77700	0.01	10
77760	0.01	10

77820	0.01	10
77880	0.01	10
77940	0.01	10
78000	0.01	10
78060	0.01	10
78120	0.01	10
78180	0.009	9.933333333
78240	0.01	9.933333333
78300	0.01	9.933333333
78360	0.01	9.933333333
78420	0.01	9.933333333
78480	0.01	9.933333333
78540	0.01	9.933333333
78600	0.01	9.933333333
78660	0.01	9.933333333
78720	0.01	9.933333333
78780	0.01	9.933333333
78840	0.01	9.933333333
78900	0.01	9.933333333
78960	0.01	9.933333333
79020	0.01	9.933333333
79080	0.01	10
79140	0.01	10
79200	0.01	10
79260	0.01	10
79320	0.01	10
79380	0.01	10
79440	0.01	10
79500	0.01	10
79560	0.01	10
79620	0.01	10
79680	0.01	10
79740	0.01	10
79800	0.01	10
79860	0.01	10
79920	0.01	10
79980	0.01	10
80040	0.01	10
80100	0.01	10
80160	0.01	10
80220	0.01	10
80280	0.01	10
80340	0.01	10
80400	0.01	10
80460	0.01	10
80520	0.01	10
80580	0.01	10

80640	0.01	10
80700	0.01	10
80760	0.01	10
80820	0.01	10
80880	0.011	10.06666667
80940	0.01	10.06666667
81000	0.01	10.06666667
81060	0.01	10.06666667
81120	0.01	10.06666667
81180	0.01	10.06666667
81240	0.01	10.06666667
81300	0.01	10.06666667
81360	0.01	10.06666667
81420	0.01	10.06666667
81480	0.01	10.06666667
81540	0.01	10.06666667
81600	0.01	10.06666667
81660	0.01	10.06666667
81720	0.01	10.06666667
81780	0.01	10
81840	0.01	10
81900	0.01	10
81960	0.01	10
82020	0.01	10
82080	0.01	10
82140	0.01	10
82200	0.01	10
82260	0.01	10
82320	0.01	10
82380	0.01	10
82440	0.01	10
82500	0.01	10
82560	0.01	10
82620	0.01	10
82680	0.01	10
82740	0.01	10
82800	0.01	10
82860	0.01	10
82920	0.01	10
82980	0.01	10
83040	0.01	10
83100	0.011	10.06666667
83160	0.012	10.2
83220	0.01	10.2
83280	0.01	10.2
83340	0.01	10.2
83400	0.01	10.2

83460	0.01	10.2
83520	0.01	10.2
83580	0.01	10.2
83640	0.01	10.2
83700	0.01	10.2
83760	0.01	10.2
83820	0.01	10.2
83880	0.011	10.26666667
83940	0.011	10.33333333
84000	0.011	10.33333333
84060	0.011	10.26666667
84120	0.012	10.4
84180	0.011	10.46666667
84240	0.011	10.53333333
84300	0.011	10.6
84360	0.011	10.66666667
84420	0.011	10.73333333
84480	0.011	10.8
84540	0.011	10.86666667
84600	0.011	10.93333333
84660	0.011	11
84720	0.011	11.06666667
84780	0.012	11.13333333
84840	0.011	11.13333333
84900	0.011	11.13333333
84960	0.011	11.13333333
85020	0.011	11.06666667
85080	0.011	11.06666667
85140	0.011	11.06666667
85200	0.011	11.06666667
85260	0.011	11.06666667
85320	0.011	11.06666667
85380	0.011	11.06666667
85440	0.011	11.06666667
85500	0.011	11.06666667
85560	0.011	11.06666667
85620	0.011	11.06666667
85680	0.011	11
85740	0.011	11
85800	0.011	11
85860	0.011	11
85920	0.011	11
85980	0.011	11
86040	0.011	11
86100	0.012	11.06666667
86160	0.011	11.06666667
86220	0.011	11.06666667

86280	0.011	11.06666667
86340	0.011	11.06666667
86400	0.011	11.06666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_056
Test Start Time	7:08:36 AM
Test Start Date	8/31/2020
Test Length [D:H:M]	0:06:51
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.012
Mass Minimum [mg/m3]	0.009
Mass Maximum [mg/m3]	0.038
Mass TWA [mg/m3]	0.01
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	411

Max Instant Conc.	Max 15 min TWA Conc.
38	22.93333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.011			
120	0.011			
180	0.011			
240	0.011			
300	0.012			
360	0.011			
420	0.012			
480	0.013			
540	0.017			
600	0.032			
660	0.031			
720	0.033			
780	0.034			
840	0.033			
900	0.038			20.66666667
960	0.03			21.93333333
1020	0.016			22.26666667
1080	0.014			22.46666667
1140	0.014			22.66666667
1200	0.015			22.86666667
1260	0.012			22.93333333
1320	0.012			22.93333333
1380	0.011			22.8
1440	0.012			22.46666667
1500	0.012			21.13333333
1560	0.012			19.86666667
1620	0.013			18.53333333

1680	0.012	17.06666667
1740	0.013	15.73333333
1800	0.011	13.93333333
1860	0.011	12.66666667
1920	0.011	12.33333333
1980	0.011	12.13333333
2040	0.011	11.93333333
2100	0.011	11.66666667
2160	0.011	11.6
2220	0.01	11.46666667
2280	0.011	11.46666667
2340	0.011	11.4
2400	0.01	11.26666667
2460	0.01	11.13333333
2520	0.01	10.93333333
2580	0.01	10.8
2640	0.011	10.66666667
2700	0.01	10.6
2760	0.01	10.53333333
2820	0.01	10.46666667
2880	0.01	10.4
2940	0.01	10.33333333
3000	0.011	10.33333333
3060	0.011	10.33333333
3120	0.011	10.4
3180	0.011	10.4
3240	0.011	10.4
3300	0.011	10.46666667
3360	0.012	10.6
3420	0.012	10.73333333
3480	0.012	10.86666667
3540	0.012	10.93333333
3600	0.012	11.06666667
3660	0.012	11.2
3720	0.012	11.33333333
3780	0.012	11.46666667
3840	0.012	11.6
3900	0.012	11.66666667
3960	0.013	11.8
4020	0.012	11.86666667
4080	0.012	11.93333333
4140	0.012	12
4200	0.012	12.06666667
4260	0.012	12.06666667
4320	0.012	12.06666667
4380	0.012	12.06666667
4440	0.012	12.06666667

4500	0.012	12.06666667
4560	0.012	12.06666667
4620	0.012	12.06666667
4680	0.012	12.06666667
4740	0.011	12
4800	0.011	11.93333333
4860	0.011	11.8
4920	0.011	11.73333333
4980	0.011	11.66666667
5040	0.011	11.6
5100	0.011	11.53333333
5160	0.011	11.46666667
5220	0.012	11.46666667
5280	0.011	11.4
5340	0.01	11.26666667
5400	0.01	11.13333333
5460	0.011	11.06666667
5520	0.01	10.93333333
5580	0.011	10.86666667
5640	0.011	10.86666667
5700	0.011	10.86666667
5760	0.011	10.86666667
5820	0.011	10.86666667
5880	0.01	10.8
5940	0.011	10.8
6000	0.011	10.8
6060	0.011	10.8
6120	0.011	10.73333333
6180	0.011	10.73333333
6240	0.011	10.8
6300	0.01	10.8
6360	0.01	10.73333333
6420	0.011	10.8
6480	0.011	10.8
6540	0.011	10.8
6600	0.011	10.8
6660	0.011	10.8
6720	0.011	10.8
6780	0.011	10.86666667
6840	0.011	10.86666667
6900	0.01	10.8
6960	0.012	10.86666667
7020	0.01	10.8
7080	0.01	10.73333333
7140	0.011	10.73333333
7200	0.011	10.8
7260	0.01	10.8

7320	0.01	10.73333333
7380	0.011	10.73333333
7440	0.011	10.73333333
7500	0.011	10.73333333
7560	0.011	10.73333333
7620	0.011	10.73333333
7680	0.011	10.73333333
7740	0.011	10.73333333
7800	0.011	10.8
7860	0.011	10.73333333
7920	0.011	10.8
7980	0.011	10.86666667
8040	0.012	10.93333333
8100	0.011	10.93333333
8160	0.011	11
8220	0.012	11.13333333
8280	0.012	11.2
8340	0.012	11.26666667
8400	0.012	11.33333333
8460	0.012	11.4
8520	0.012	11.46666667
8580	0.012	11.53333333
8640	0.012	11.6
8700	0.012	11.66666667
8760	0.013	11.8
8820	0.012	11.86666667
8880	0.013	12
8940	0.013	12.06666667
9000	0.013	12.2
9060	0.013	12.33333333
9120	0.012	12.33333333
9180	0.012	12.33333333
9240	0.014	12.46666667
9300	0.013	12.53333333
9360	0.012	12.53333333
9420	0.014	12.66666667
9480	0.014	12.8
9540	0.014	12.93333333
9600	0.014	13.06666667
9660	0.014	13.13333333
9720	0.013	13.2
9780	0.013	13.2
9840	0.012	13.13333333
9900	0.012	13.06666667
9960	0.012	13
10020	0.012	13
10080	0.012	13

10140	0.013	12.93333333
10200	0.013	12.93333333
10260	0.013	13
10320	0.013	12.93333333
10380	0.012	12.8
10440	0.013	12.73333333
10500	0.012	12.6
10560	0.013	12.53333333
10620	0.013	12.53333333
10680	0.012	12.46666667
10740	0.012	12.46666667
10800	0.012	12.46666667
10860	0.012	12.46666667
10920	0.012	12.46666667
10980	0.011	12.4
11040	0.011	12.26666667
11100	0.011	12.13333333
11160	0.011	12
11220	0.012	11.93333333
11280	0.012	11.93333333
11340	0.012	11.86666667
11400	0.012	11.86666667
11460	0.012	11.8
11520	0.012	11.73333333
11580	0.012	11.73333333
11640	0.012	11.73333333
11700	0.012	11.73333333
11760	0.012	11.73333333
11820	0.012	11.73333333
11880	0.012	11.8
11940	0.012	11.86666667
12000	0.011	11.86666667
12060	0.012	11.93333333
12120	0.012	11.93333333
12180	0.011	11.86666667
12240	0.012	11.86666667
12300	0.011	11.8
12360	0.011	11.73333333
12420	0.011	11.66666667
12480	0.011	11.6
12540	0.011	11.53333333
12600	0.011	11.46666667
12660	0.011	11.4
12720	0.011	11.33333333
12780	0.01	11.2
12840	0.01	11.06666667
12900	0.01	11

12960	0.01	10.86666667
13020	0.01	10.73333333
13080	0.01	10.66666667
13140	0.01	10.53333333
13200	0.011	10.53333333
13260	0.011	10.53333333
13320	0.011	10.53333333
13380	0.011	10.53333333
13440	0.011	10.53333333
13500	0.011	10.53333333
13560	0.011	10.53333333
13620	0.011	10.53333333
13680	0.011	10.6
13740	0.011	10.66666667
13800	0.011	10.73333333
13860	0.011	10.8
13920	0.01	10.8
13980	0.01	10.8
14040	0.01	10.8
14100	0.01	10.73333333
14160	0.01	10.66666667
14220	0.01	10.6
14280	0.01	10.53333333
14340	0.01	10.46666667
14400	0.01	10.4
14460	0.01	10.33333333
14520	0.01	10.26666667
14580	0.01	10.2
14640	0.01	10.13333333
14700	0.01	10.06666667
14760	0.01	10
14820	0.009	9.933333333
14880	0.01	9.933333333
14940	0.01	9.933333333
15000	0.01	9.933333333
15060	0.01	9.933333333
15120	0.01	9.933333333
15180	0.01	9.933333333
15240	0.012	10.06666667
15300	0.01	10.06666667
15360	0.011	10.13333333
15420	0.01	10.13333333
15480	0.01	10.13333333
15540	0.01	10.13333333
15600	0.01	10.13333333
15660	0.01	10.13333333
15720	0.01	10.2

15780	0.01	10.2
15840	0.01	10.2
15900	0.01	10.2
15960	0.011	10.26666667
16020	0.01	10.26666667
16080	0.01	10.26666667
16140	0.011	10.2
16200	0.011	10.26666667
16260	0.011	10.26666667
16320	0.011	10.33333333
16380	0.01	10.33333333
16440	0.011	10.4
16500	0.011	10.46666667
16560	0.012	10.6
16620	0.011	10.66666667
16680	0.011	10.73333333
16740	0.011	10.8
16800	0.011	10.86666667
16860	0.011	10.86666667
16920	0.016	11.26666667
16980	0.011	11.33333333
17040	0.011	11.33333333
17100	0.011	11.33333333
17160	0.011	11.33333333
17220	0.011	11.33333333
17280	0.011	11.4
17340	0.011	11.4
17400	0.011	11.4
17460	0.011	11.33333333
17520	0.012	11.4
17580	0.011	11.4
17640	0.011	11.4
17700	0.011	11.4
17760	0.011	11.4
17820	0.011	11.06666667
17880	0.011	11.06666667
17940	0.011	11.06666667
18000	0.011	11.06666667
18060	0.011	11.06666667
18120	0.011	11.06666667
18180	0.011	11.06666667
18240	0.011	11.06666667
18300	0.011	11.06666667
18360	0.011	11.06666667
18420	0.011	11
18480	0.011	11
18540	0.011	11

18600	0.011	11
18660	0.011	11
18720	0.011	11
18780	0.011	11
18840	0.011	11
18900	0.012	11.06666667
18960	0.011	11.06666667
19020	0.011	11.06666667
19080	0.011	11.06666667
19140	0.011	11.06666667
19200	0.011	11.06666667
19260	0.011	11.06666667
19320	0.011	11.06666667
19380	0.011	11.06666667
19440	0.011	11.06666667
19500	0.011	11.06666667
19560	0.011	11.06666667
19620	0.011	11.06666667
19680	0.011	11.06666667
19740	0.012	11.13333333
19800	0.012	11.13333333
19860	0.012	11.2
19920	0.011	11.2
19980	0.011	11.2
20040	0.011	11.2
20100	0.011	11.2
20160	0.011	11.2
20220	0.012	11.26666667
20280	0.012	11.33333333
20340	0.012	11.4
20400	0.011	11.4
20460	0.011	11.4
20520	0.011	11.4
20580	0.011	11.4
20640	0.011	11.33333333
20700	0.011	11.26666667
20760	0.012	11.26666667
20820	0.012	11.33333333
20880	0.012	11.4
20940	0.011	11.4
21000	0.011	11.4
21060	0.012	11.46666667
21120	0.011	11.4
21180	0.011	11.33333333
21240	0.011	11.26666667
21300	0.011	11.26666667
21360	0.011	11.26666667

21420	0.011	11.26666667
21480	0.011	11.26666667
21540	0.011	11.26666667
21600	0.013	11.4
21660	0.012	11.4
21720	0.01	11.26666667
21780	0.01	11.13333333
21840	0.011	11.13333333
21900	0.011	11.13333333
21960	0.011	11.06666667
22020	0.011	11.06666667
22080	0.011	11.06666667
22140	0.011	11.06666667
22200	0.011	11.06666667
22260	0.011	11.06666667
22320	0.01	11
22380	0.011	11
22440	0.011	11
22500	0.01	10.8
22560	0.011	10.73333333
22620	0.01	10.73333333
22680	0.011	10.8
22740	0.011	10.8
22800	0.011	10.8
22860	0.01	10.73333333
22920	0.01	10.66666667
22980	0.011	10.66666667
23040	0.01	10.6
23100	0.01	10.53333333
23160	0.01	10.46666667
23220	0.011	10.53333333
23280	0.011	10.53333333
23340	0.011	10.53333333
23400	0.011	10.6
23460	0.011	10.6
23520	0.011	10.66666667
23580	0.011	10.66666667
23640	0.011	10.66666667
23700	0.012	10.73333333
23760	0.011	10.8
23820	0.011	10.86666667
23880	0.011	10.86666667
23940	0.011	10.93333333
24000	0.012	11.06666667
24060	0.011	11.13333333
24120	0.011	11.13333333
24180	0.011	11.13333333

24240	0.011	11.13333333
24300	0.011	11.13333333
24360	0.011	11.13333333
24420	0.011	11.13333333
24480	0.012	11.2
24540	0.011	11.2
24600	0.013	11.26666667
24660	0.011	11.26666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_057
Test Start Time	6:28:10 AM
Test Start Date	9/1/2020
Test Length [D:H:M]	0:07:25
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.01
Mass Minimum [mg/m3]	0.008
Mass Maximum [mg/m3]	0.016
Mass TWA [mg/m3]	0.009
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	445

Max Instant Conc.	Max 15 min TWA Conc.
16	13.66666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.01			
120	0.009			
180	0.009			
240	0.009			
300	0.009			
360	0.009			
420	0.009			
480	0.01			
540	0.01			
600	0.01			
660	0.01			
720	0.01			
780	0.011			
840	0.011			
900	0.01			9.733333333
960	0.01			9.733333333
1020	0.012			9.933333333
1080	0.014			10.26666667
1140	0.016			10.73333333
1200	0.016			11.2
1260	0.016			11.66666667
1320	0.015			12.06666667
1380	0.014			12.33333333
1440	0.014			12.6
1500	0.013			12.8
1560	0.013			13
1620	0.013			13.2

1680	0.013	13.33333333
1740	0.012	13.4
1800	0.012	13.53333333
1860	0.012	13.66666667
1920	0.012	13.66666667
1980	0.011	13.46666667
2040	0.011	13.13333333
2100	0.011	12.8
2160	0.011	12.46666667
2220	0.011	12.2
2280	0.011	12
2340	0.011	11.8
2400	0.011	11.66666667
2460	0.011	11.53333333
2520	0.011	11.4
2580	0.011	11.26666667
2640	0.011	11.2
2700	0.011	11.13333333
2760	0.011	11.06666667
2820	0.011	11
2880	0.011	11
2940	0.011	11
3000	0.011	11
3060	0.011	11
3120	0.011	11
3180	0.011	11
3240	0.012	11.06666667
3300	0.012	11.13333333
3360	0.012	11.2
3420	0.012	11.26666667
3480	0.011	11.26666667
3540	0.011	11.26666667
3600	0.011	11.26666667
3660	0.011	11.26666667
3720	0.011	11.26666667
3780	0.01	11.2
3840	0.011	11.2
3900	0.011	11.2
3960	0.011	11.2
4020	0.01	11.13333333
4080	0.011	11.13333333
4140	0.01	11
4200	0.01	10.86666667
4260	0.01	10.73333333
4320	0.01	10.6
4380	0.01	10.53333333
4440	0.01	10.46666667

4500	0.01	10.4
4560	0.01	10.33333333
4620	0.01	10.26666667
4680	0.01	10.26666667
4740	0.01	10.2
4800	0.009	10.06666667
4860	0.009	9.933333333
4920	0.009	9.866666667
4980	0.009	9.733333333
5040	0.009	9.666666667
5100	0.009	9.6
5160	0.008	9.466666667
5220	0.008	9.333333333
5280	0.008	9.2
5340	0.008	9.066666667
5400	0.008	8.933333333
5460	0.008	8.8
5520	0.008	8.666666667
5580	0.009	8.6
5640	0.009	8.533333333
5700	0.009	8.533333333
5760	0.009	8.533333333
5820	0.008	8.466666667
5880	0.009	8.466666667
5940	0.008	8.4
6000	0.008	8.333333333
6060	0.008	8.333333333
6120	0.008	8.333333333
6180	0.009	8.4
6240	0.009	8.466666667
6300	0.009	8.533333333
6360	0.009	8.6
6420	0.009	8.666666667
6480	0.009	8.666666667
6540	0.009	8.666666667
6600	0.01	8.733333333
6660	0.009	8.733333333
6720	0.009	8.8
6780	0.009	8.8
6840	0.009	8.866666667
6900	0.01	9
6960	0.009	9.066666667
7020	0.009	9.133333333
7080	0.009	9.133333333
7140	0.009	9.133333333
7200	0.009	9.133333333
7260	0.009	9.133333333

7320	0.009	9.133333333
7380	0.009	9.133333333
7440	0.009	9.133333333
7500	0.009	9.066666667
7560	0.009	9.066666667
7620	0.009	9.066666667
7680	0.01	9.133333333
7740	0.01	9.2
7800	0.01	9.2
7860	0.01	9.266666667
7920	0.01	9.333333333
7980	0.01	9.4
8040	0.01	9.466666667
8100	0.01	9.533333333
8160	0.01	9.6
8220	0.009	9.6
8280	0.009	9.6
8340	0.009	9.6
8400	0.009	9.6
8460	0.009	9.6
8520	0.009	9.6
8580	0.009	9.533333333
8640	0.009	9.466666667
8700	0.009	9.4
8760	0.009	9.333333333
8820	0.009	9.266666667
8880	0.009	9.2
8940	0.008	9.066666667
9000	0.009	9
9060	0.009	8.933333333
9120	0.009	8.933333333
9180	0.009	8.933333333
9240	0.009	8.933333333
9300	0.009	8.933333333
9360	0.009	8.933333333
9420	0.009	8.933333333
9480	0.009	8.933333333
9540	0.01	9
9600	0.011	9.133333333
9660	0.01	9.2
9720	0.01	9.266666667
9780	0.009	9.266666667
9840	0.009	9.333333333
9900	0.009	9.333333333
9960	0.009	9.333333333
10020	0.009	9.333333333
10080	0.009	9.333333333

10140	0.01	9.4
10200	0.009	9.4
10260	0.009	9.4
10320	0.009	9.4
10380	0.009	9.4
10440	0.009	9.333333333
10500	0.009	9.2
10560	0.009	9.133333333
10620	0.009	9.066666667
10680	0.01	9.133333333
10740	0.009	9.133333333
10800	0.009	9.133333333
10860	0.009	9.133333333
10920	0.01	9.2
10980	0.009	9.2
11040	0.01	9.2
11100	0.01	9.266666667
11160	0.01	9.333333333
11220	0.01	9.4
11280	0.01	9.466666667
11340	0.01	9.533333333
11400	0.01	9.6
11460	0.01	9.666666667
11520	0.01	9.733333333
11580	0.009	9.666666667
11640	0.01	9.733333333
11700	0.01	9.8
11760	0.01	9.866666667
11820	0.009	9.8
11880	0.01	9.866666667
11940	0.009	9.8
12000	0.009	9.733333333
12060	0.009	9.666666667
12120	0.009	9.6
12180	0.009	9.533333333
12240	0.009	9.466666667
12300	0.01	9.466666667
12360	0.01	9.466666667
12420	0.01	9.466666667
12480	0.01	9.533333333
12540	0.01	9.533333333
12600	0.01	9.533333333
12660	0.01	9.533333333
12720	0.01	9.6
12780	0.01	9.6
12840	0.01	9.666666667
12900	0.01	9.733333333

12960	0.01	9.8
13020	0.01	9.866666667
13080	0.01	9.933333333
13140	0.009	9.933333333
13200	0.009	9.866666667
13260	0.009	9.8
13320	0.009	9.733333333
13380	0.01	9.733333333
13440	0.01	9.733333333
13500	0.01	9.733333333
13560	0.01	9.733333333
13620	0.01	9.733333333
13680	0.01	9.733333333
13740	0.01	9.733333333
13800	0.01	9.733333333
13860	0.01	9.733333333
13920	0.01	9.733333333
13980	0.01	9.733333333
14040	0.01	9.8
14100	0.01	9.866666667
14160	0.01	9.933333333
14220	0.01	10
14280	0.01	10
14340	0.009	9.933333333
14400	0.009	9.866666667
14460	0.009	9.8
14520	0.009	9.733333333
14580	0.009	9.666666667
14640	0.009	9.6
14700	0.009	9.533333333
14760	0.009	9.466666667
14820	0.009	9.4
14880	0.009	9.333333333
14940	0.009	9.266666667
15000	0.01	9.266666667
15060	0.01	9.266666667
15120	0.01	9.266666667
15180	0.01	9.266666667
15240	0.01	9.333333333
15300	0.01	9.4
15360	0.01	9.466666667
15420	0.01	9.533333333
15480	0.01	9.6
15540	0.01	9.666666667
15600	0.01	9.733333333
15660	0.01	9.8
15720	0.01	9.866666667

15780	0.01	9.933333333
15840	0.01	10
15900	0.01	10
15960	0.01	10
16020	0.01	10
16080	0.01	10
16140	0.01	10
16200	0.01	10
16260	0.01	10
16320	0.01	10
16380	0.01	10
16440	0.01	10
16500	0.009	9.933333333
16560	0.01	9.933333333
16620	0.01	9.933333333
16680	0.01	9.933333333
16740	0.009	9.866666667
16800	0.01	9.866666667
16860	0.01	9.866666667
16920	0.01	9.866666667
16980	0.01	9.866666667
17040	0.01	9.866666667
17100	0.01	9.866666667
17160	0.01	9.866666667
17220	0.01	9.866666667
17280	0.01	9.866666667
17340	0.01	9.866666667
17400	0.01	9.933333333
17460	0.01	9.933333333
17520	0.01	9.933333333
17580	0.01	9.933333333
17640	0.01	10
17700	0.01	10
17760	0.01	10
17820	0.01	10
17880	0.01	10
17940	0.01	10
18000	0.01	10
18060	0.01	10
18120	0.01	10
18180	0.01	10
18240	0.01	10
18300	0.01	10
18360	0.01	10
18420	0.01	10
18480	0.01	10
18540	0.01	10

18600	0.01	10
18660	0.01	10
18720	0.01	10
18780	0.01	10
18840	0.01	10
18900	0.01	10
18960	0.01	10
19020	0.01	10
19080	0.01	10
19140	0.01	10
19200	0.01	10
19260	0.01	10
19320	0.01	10
19380	0.009	9.933333333
19440	0.01	9.933333333
19500	0.009	9.866666667
19560	0.01	9.866666667
19620	0.01	9.866666667
19680	0.01	9.866666667
19740	0.01	9.866666667
19800	0.01	9.866666667
19860	0.01	9.866666667
19920	0.01	9.866666667
19980	0.01	9.866666667
20040	0.011	9.933333333
20100	0.01	9.933333333
20160	0.01	9.933333333
20220	0.011	10
20280	0.011	10.13333333
20340	0.011	10.2
20400	0.01	10.26666667
20460	0.011	10.33333333
20520	0.01	10.33333333
20580	0.01	10.33333333
20640	0.01	10.33333333
20700	0.012	10.46666667
20760	0.01	10.46666667
20820	0.01	10.46666667
20880	0.01	10.46666667
20940	0.01	10.4
21000	0.01	10.4
21060	0.01	10.4
21120	0.01	10.33333333
21180	0.01	10.26666667
21240	0.01	10.2
21300	0.01	10.2
21360	0.01	10.13333333

21420	0.01	10.13333333
21480	0.01	10.13333333
21540	0.01	10.13333333
21600	0.01	10
21660	0.01	10
21720	0.01	10
21780	0.01	10
21840	0.01	10
21900	0.01	10
21960	0.01	10
22020	0.01	10
22080	0.01	10
22140	0.01	10
22200	0.01	10
22260	0.01	10
22320	0.01	10
22380	0.01	10
22440	0.01	10
22500	0.01	10
22560	0.01	10
22620	0.01	10
22680	0.01	10
22740	0.01	10
22800	0.01	10
22860	0.01	10
22920	0.01	10
22980	0.01	10
23040	0.01	10
23100	0.01	10
23160	0.01	10
23220	0.01	10
23280	0.01	10
23340	0.01	10
23400	0.01	10
23460	0.01	10
23520	0.01	10
23580	0.01	10
23640	0.01	10
23700	0.01	10
23760	0.01	10
23820	0.01	10
23880	0.01	10
23940	0.01	10
24000	0.01	10
24060	0.01	10
24120	0.01	10
24180	0.01	10

24240	0.01	10
24300	0.01	10
24360	0.01	10
24420	0.01	10
24480	0.01	10
24540	0.01	10
24600	0.01	10
24660	0.01	10
24720	0.01	10
24780	0.01	10
24840	0.01	10
24900	0.01	10
24960	0.01	10
25020	0.01	10
25080	0.01	10
25140	0.01	10
25200	0.01	10
25260	0.01	10
25320	0.01	10
25380	0.01	10
25440	0.01	10
25500	0.01	10
25560	0.01	10
25620	0.011	10.06666667
25680	0.01	10.06666667
25740	0.01	10.06666667
25800	0.01	10.06666667
25860	0.01	10.06666667
25920	0.01	10.06666667
25980	0.01	10.06666667
26040	0.01	10.06666667
26100	0.011	10.13333333
26160	0.01	10.13333333
26220	0.009	10.06666667
26280	0.01	10.06666667
26340	0.009	10
26400	0.01	10
26460	0.009	9.933333333
26520	0.009	9.8
26580	0.009	9.733333333
26640	0.01	9.733333333
26700	0.009	9.666666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_058
Test Start Time	6:33:28 AM
Test Start Date	9/2/2020
Test Length [D:H:M]	0:07:42
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.006
Mass Minimum [mg/m3]	0.004
Mass Maximum [mg/m3]	0.012
Mass TWA [mg/m3]	0.006
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	462

Max Instant Conc.	Max 15 min TWA Conc.
12	11.06666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.012			
120	0.01			
180	0.011			
240	0.011			
300	0.01			
360	0.011			
420	0.012			
480	0.011			
540	0.011			
600	0.012			
660	0.011			
720	0.011			
780	0.011			
840	0.011			
900	0.011			11.06666667
960	0.011			11
1020	0.011			11.06666667
1080	0.011			11.06666667
1140	0.01			11
1200	0.011			11.06666667
1260	0.011			11.06666667
1320	0.011			11
1380	0.011			11
1440	0.011			11
1500	0.011			10.93333333
1560	0.011			10.93333333
1620	0.011			10.93333333

1680	0.011	10.93333333
1740	0.011	10.93333333
1800	0.011	10.93333333
1860	0.011	10.93333333
1920	0.01	10.86666667
1980	0.01	10.8
2040	0.01	10.8
2100	0.011	10.8
2160	0.011	10.8
2220	0.011	10.8
2280	0.011	10.8
2340	0.011	10.8
2400	0.011	10.8
2460	0.011	10.8
2520	0.011	10.8
2580	0.011	10.8
2640	0.011	10.8
2700	0.011	10.8
2760	0.011	10.8
2820	0.011	10.86666667
2880	0.011	10.93333333
2940	0.011	11
3000	0.011	11
3060	0.01	10.93333333
3120	0.01	10.86666667
3180	0.011	10.86666667
3240	0.01	10.8
3300	0.01	10.73333333
3360	0.01	10.66666667
3420	0.01	10.6
3480	0.01	10.53333333
3540	0.01	10.46666667
3600	0.01	10.4
3660	0.009	10.26666667
3720	0.01	10.2
3780	0.01	10.13333333
3840	0.01	10.06666667
3900	0.01	10
3960	0.009	9.933333333
4020	0.009	9.866666667
4080	0.01	9.8
4140	0.009	9.733333333
4200	0.009	9.666666667
4260	0.009	9.6
4320	0.01	9.6
4380	0.009	9.533333333
4440	0.01	9.533333333

4500	0.009	9.466666667
4560	0.009	9.466666667
4620	0.009	9.4
4680	0.009	9.333333333
4740	0.009	9.266666667
4800	0.009	9.2
4860	0.009	9.2
4920	0.009	9.2
4980	0.009	9.133333333
5040	0.009	9.133333333
5100	0.009	9.133333333
5160	0.009	9.133333333
5220	0.009	9.066666667
5280	0.009	9.066666667
5340	0.008	8.933333333
5400	0.008	8.866666667
5460	0.008	8.8
5520	0.008	8.733333333
5580	0.007	8.6
5640	0.007	8.466666667
5700	0.007	8.333333333
5760	0.006	8.133333333
5820	0.007	8
5880	0.006	7.8
5940	0.006	7.6
6000	0.006	7.4
6060	0.006	7.2
6120	0.006	7
6180	0.006	6.8
6240	0.006	6.666666667
6300	0.006	6.533333333
6360	0.006	6.4
6420	0.006	6.266666667
6480	0.006	6.2
6540	0.006	6.133333333
6600	0.006	6.066666667
6660	0.006	6.066666667
6720	0.006	6
6780	0.006	6
6840	0.006	6
6900	0.006	6
6960	0.006	6
7020	0.006	6
7080	0.007	6.066666667
7140	0.006	6.066666667
7200	0.006	6.066666667
7260	0.006	6.066666667

7320	0.006	6.066666667
7380	0.006	6.066666667
7440	0.005	6
7500	0.005	5.933333333
7560	0.005	5.866666667
7620	0.006	5.866666667
7680	0.005	5.8
7740	0.005	5.733333333
7800	0.005	5.666666667
7860	0.005	5.6
7920	0.005	5.533333333
7980	0.005	5.4
8040	0.006	5.4
8100	0.005	5.333333333
8160	0.005	5.266666667
8220	0.005	5.2
8280	0.005	5.133333333
8340	0.006	5.2
8400	0.006	5.266666667
8460	0.005	5.266666667
8520	0.005	5.2
8580	0.005	5.2
8640	0.005	5.2
8700	0.005	5.2
8760	0.005	5.2
8820	0.005	5.2
8880	0.005	5.2
8940	0.005	5.133333333
9000	0.005	5.133333333
9060	0.005	5.133333333
9120	0.005	5.133333333
9180	0.005	5.133333333
9240	0.005	5.066666667
9300	0.005	5
9360	0.005	5
9420	0.005	5
9480	0.005	5
9540	0.005	5
9600	0.005	5
9660	0.005	5
9720	0.005	5
9780	0.005	5
9840	0.005	5
9900	0.005	5
9960	0.005	5
10020	0.005	5
10080	0.005	5

10140	0.005	5
10200	0.005	5
10260	0.005	5
10320	0.005	5
10380	0.005	5
10440	0.005	5
10500	0.005	5
10560	0.005	5
10620	0.005	5
10680	0.005	5
10740	0.005	5
10800	0.005	5
10860	0.005	5
10920	0.005	5
10980	0.005	5
11040	0.005	5
11100	0.005	5
11160	0.005	5
11220	0.005	5
11280	0.005	5
11340	0.005	5
11400	0.005	5
11460	0.006	5.066666667
11520	0.005	5.066666667
11580	0.005	5.066666667
11640	0.005	5.066666667
11700	0.006	5.133333333
11760	0.005	5.133333333
11820	0.005	5.133333333
11880	0.005	5.133333333
11940	0.005	5.133333333
12000	0.005	5.133333333
12060	0.005	5.133333333
12120	0.005	5.133333333
12180	0.005	5.133333333
12240	0.005	5.133333333
12300	0.005	5.133333333
12360	0.005	5.066666667
12420	0.005	5.066666667
12480	0.005	5.066666667
12540	0.005	5.066666667
12600	0.005	5
12660	0.005	5
12720	0.005	5
12780	0.006	5.066666667
12840	0.005	5.066666667
12900	0.005	5.066666667

12960	0.005	5.066666667
13020	0.006	5.133333333
13080	0.006	5.2
13140	0.005	5.2
13200	0.006	5.266666667
13260	0.006	5.333333333
13320	0.006	5.4
13380	0.006	5.466666667
13440	0.006	5.533333333
13500	0.005	5.533333333
13560	0.005	5.533333333
13620	0.005	5.533333333
13680	0.005	5.466666667
13740	0.005	5.466666667
13800	0.005	5.466666667
13860	0.005	5.466666667
13920	0.005	5.4
13980	0.005	5.333333333
14040	0.005	5.333333333
14100	0.005	5.266666667
14160	0.005	5.2
14220	0.005	5.133333333
14280	0.005	5.066666667
14340	0.005	5
14400	0.005	5
14460	0.005	5
14520	0.005	5
14580	0.005	5
14640	0.005	5
14700	0.006	5.066666667
14760	0.008	5.266666667
14820	0.005	5.266666667
14880	0.005	5.266666667
14940	0.005	5.266666667
15000	0.005	5.266666667
15060	0.005	5.266666667
15120	0.005	5.266666667
15180	0.005	5.266666667
15240	0.005	5.266666667
15300	0.005	5.266666667
15360	0.005	5.266666667
15420	0.005	5.266666667
15480	0.005	5.266666667
15540	0.005	5.266666667
15600	0.005	5.2
15660	0.006	5.066666667
15720	0.006	5.133333333

15780	0.006	5.2
15840	0.005	5.2
15900	0.006	5.266666667
15960	0.007	5.4
16020	0.006	5.466666667
16080	0.005	5.466666667
16140	0.005	5.466666667
16200	0.005	5.466666667
16260	0.005	5.466666667
16320	0.005	5.466666667
16380	0.012	5.933333333
16440	0.005	5.933333333
16500	0.005	5.933333333
16560	0.005	5.866666667
16620	0.005	5.8
16680	0.005	5.733333333
16740	0.005	5.733333333
16800	0.005	5.666666667
16860	0.005	5.533333333
16920	0.005	5.466666667
16980	0.006	5.533333333
17040	0.007	5.666666667
17100	0.006	5.733333333
17160	0.006	5.8
17220	0.007	5.933333333
17280	0.007	5.6
17340	0.006	5.666666667
17400	0.005	5.666666667
17460	0.005	5.666666667
17520	0.005	5.666666667
17580	0.005	5.666666667
17640	0.006	5.733333333
17700	0.005	5.733333333
17760	0.005	5.733333333
17820	0.005	5.733333333
17880	0.005	5.666666667
17940	0.005	5.533333333
18000	0.005	5.466666667
18060	0.005	5.4
18120	0.005	5.266666667
18180	0.005	5.133333333
18240	0.005	5.066666667
18300	0.005	5.066666667
18360	0.005	5.066666667
18420	0.005	5.066666667
18480	0.005	5.066666667
18540	0.005	5

18600	0.005	5
18660	0.005	5
18720	0.005	5
18780	0.005	5
18840	0.005	5
18900	0.005	5
18960	0.005	5
19020	0.006	5.066666667
19080	0.005	5.066666667
19140	0.005	5.066666667
19200	0.005	5.066666667
19260	0.005	5.066666667
19320	0.005	5.066666667
19380	0.005	5.066666667
19440	0.005	5.066666667
19500	0.005	5.066666667
19560	0.005	5.066666667
19620	0.005	5.066666667
19680	0.005	5.066666667
19740	0.005	5.066666667
19800	0.005	5.066666667
19860	0.005	5.066666667
19920	0.005	5
19980	0.005	5
20040	0.005	5
20100	0.005	5
20160	0.005	5
20220	0.005	5
20280	0.005	5
20340	0.005	5
20400	0.005	5
20460	0.005	5
20520	0.004	4.933333333
20580	0.005	4.933333333
20640	0.005	4.933333333
20700	0.005	4.933333333
20760	0.005	4.933333333
20820	0.004	4.866666667
20880	0.005	4.866666667
20940	0.005	4.866666667
21000	0.005	4.866666667
21060	0.005	4.866666667
21120	0.005	4.866666667
21180	0.005	4.866666667
21240	0.005	4.866666667
21300	0.005	4.866666667
21360	0.005	4.866666667

21420	0.005	4.933333333
21480	0.004	4.866666667
21540	0.005	4.866666667
21600	0.005	4.866666667
21660	0.005	4.866666667
21720	0.005	4.933333333
21780	0.005	4.933333333
21840	0.005	4.933333333
21900	0.004	4.866666667
21960	0.004	4.8
22020	0.005	4.8
22080	0.004	4.733333333
22140	0.005	4.733333333
22200	0.005	4.733333333
22260	0.004	4.666666667
22320	0.005	4.666666667
22380	0.005	4.733333333
22440	0.004	4.666666667
22500	0.005	4.666666667
22560	0.005	4.666666667
22620	0.004	4.6
22680	0.004	4.533333333
22740	0.005	4.533333333
22800	0.005	4.6
22860	0.005	4.666666667
22920	0.005	4.666666667
22980	0.005	4.733333333
23040	0.005	4.733333333
23100	0.005	4.733333333
23160	0.005	4.8
23220	0.005	4.8
23280	0.005	4.8
23340	0.005	4.866666667
23400	0.005	4.866666667
23460	0.005	4.866666667
23520	0.005	4.933333333
23580	0.005	5
23640	0.005	5
23700	0.005	5
23760	0.005	5
23820	0.005	5
23880	0.005	5
23940	0.005	5
24000	0.005	5
24060	0.005	5
24120	0.005	5
24180	0.005	5

24240	0.005	5
24300	0.005	5
24360	0.006	5.066666667
24420	0.007	5.2
24480	0.007	5.333333333
24540	0.005	5.333333333
24600	0.006	5.4
24660	0.005	5.4
24720	0.005	5.4
24780	0.005	5.4
24840	0.006	5.466666667
24900	0.006	5.533333333
24960	0.006	5.6
25020	0.005	5.6
25080	0.006	5.666666667
25140	0.005	5.666666667
25200	0.006	5.733333333
25260	0.005	5.666666667
25320	0.006	5.6
25380	0.006	5.533333333
25440	0.005	5.533333333
25500	0.005	5.466666667
25560	0.006	5.533333333
25620	0.006	5.6
25680	0.005	5.6
25740	0.006	5.6
25800	0.005	5.533333333
25860	0.005	5.466666667
25920	0.005	5.466666667
25980	0.006	5.466666667
26040	0.005	5.466666667
26100	0.006	5.466666667
26160	0.006	5.533333333
26220	0.006	5.533333333
26280	0.006	5.533333333
26340	0.006	5.6
26400	0.005	5.6
26460	0.006	5.6
26520	0.006	5.6
26580	0.006	5.666666667
26640	0.006	5.666666667
26700	0.006	5.733333333
26760	0.006	5.8
26820	0.006	5.866666667
26880	0.006	5.866666667
26940	0.006	5.933333333
27000	0.006	5.933333333

27060	0.006	5.933333333
27120	0.006	5.933333333
27180	0.006	5.933333333
27240	0.005	5.866666667
27300	0.006	5.933333333
27360	0.006	5.933333333
27420	0.006	5.933333333
27480	0.005	5.866666667
27540	0.006	5.866666667
27600	0.006	5.866666667
27660	0.006	5.866666667
27720	0.006	5.866666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_059
Test Start Time	6:02:00 AM
Test Start Date	9/3/2020
Test Length [D:H:M]	0:07:25
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.017
Mass Minimum [mg/m3]	0.013
Mass Maximum [mg/m3]	0.029
Mass TWA [mg/m3]	0.016
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	445

Max Instant Conc.	Max 15 min TWA Conc.
29	25

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors		
60	0.027				
120	0.029				
180	0.029				
240	0.028				
300	0.027				
360	0.027				
420	0.027				
480	0.026				
540	0.025				
600	0.024				
660	0.023				
720	0.022				
780	0.021				
840	0.02				
900	0.02				25
960	0.019				24.46666667
1020	0.019				23.8
1080	0.018				23.06666667
1140	0.018				22.4
1200	0.017				21.73333333
1260	0.017				21.06666667
1320	0.016				20.33333333
1380	0.017				19.73333333
1440	0.016				19.13333333
1500	0.017				18.66666667
1560	0.018				18.33333333
1620	0.018				18.06666667

1680	0.018	17.86666667
1740	0.017	17.66666667
1800	0.018	17.53333333
1860	0.017	17.4
1920	0.017	17.26666667
1980	0.016	17.13333333
2040	0.017	17.06666667
2100	0.016	17
2160	0.016	16.93333333
2220	0.016	16.93333333
2280	0.016	16.86666667
2340	0.015	16.8
2400	0.016	16.73333333
2460	0.016	16.6
2520	0.016	16.46666667
2580	0.016	16.33333333
2640	0.016	16.26666667
2700	0.016	16.13333333
2760	0.015	16
2820	0.016	15.93333333
2880	0.016	15.93333333
2940	0.016	15.86666667
3000	0.016	15.86666667
3060	0.016	15.86666667
3120	0.016	15.86666667
3180	0.016	15.86666667
3240	0.016	15.93333333
3300	0.016	15.93333333
3360	0.016	15.93333333
3420	0.016	15.93333333
3480	0.016	15.93333333
3540	0.016	15.93333333
3600	0.017	16
3660	0.016	16.06666667
3720	0.017	16.13333333
3780	0.016	16.13333333
3840	0.017	16.2
3900	0.017	16.26666667
3960	0.016	16.26666667
4020	0.016	16.26666667
4080	0.016	16.26666667
4140	0.016	16.26666667
4200	0.016	16.26666667
4260	0.016	16.26666667
4320	0.016	16.26666667
4380	0.016	16.26666667
4440	0.016	16.26666667

4500	0.017	16.26666667
4560	0.016	16.26666667
4620	0.017	16.26666667
4680	0.017	16.33333333
4740	0.017	16.33333333
4800	0.017	16.33333333
4860	0.017	16.4
4920	0.017	16.46666667
4980	0.017	16.53333333
5040	0.018	16.66666667
5100	0.017	16.73333333
5160	0.017	16.8
5220	0.018	16.93333333
5280	0.017	17
5340	0.018	17.13333333
5400	0.018	17.2
5460	0.018	17.33333333
5520	0.018	17.4
5580	0.018	17.46666667
5640	0.018	17.53333333
5700	0.018	17.6
5760	0.018	17.66666667
5820	0.018	17.73333333
5880	0.018	17.8
5940	0.018	17.8
6000	0.018	17.86666667
6060	0.018	17.93333333
6120	0.018	17.93333333
6180	0.018	18
6240	0.018	18
6300	0.018	18
6360	0.018	18
6420	0.018	18
6480	0.018	18
6540	0.018	18
6600	0.019	18.06666667
6660	0.019	18.13333333
6720	0.019	18.2
6780	0.021	18.4
6840	0.02	18.53333333
6900	0.02	18.66666667
6960	0.02	18.8
7020	0.02	18.93333333
7080	0.02	19.06666667
7140	0.021	19.26666667
7200	0.022	19.53333333
7260	0.021	19.73333333

7320	0.021	19.93333333
7380	0.02	20.06666667
7440	0.021	20.26666667
7500	0.021	20.4
7560	0.021	20.53333333
7620	0.02	20.6
7680	0.02	20.53333333
7740	0.02	20.53333333
7800	0.02	20.53333333
7860	0.019	20.46666667
7920	0.02	20.46666667
7980	0.019	20.4
8040	0.019	20.26666667
8100	0.019	20.06666667
8160	0.02	20
8220	0.02	19.93333333
8280	0.019	19.86666667
8340	0.02	19.8
8400	0.019	19.66666667
8460	0.02	19.6
8520	0.02	19.6
8580	0.02	19.6
8640	0.019	19.53333333
8700	0.019	19.46666667
8760	0.019	19.46666667
8820	0.02	19.46666667
8880	0.019	19.46666667
8940	0.02	19.53333333
9000	0.02	19.6
9060	0.02	19.6
9120	0.02	19.6
9180	0.02	19.66666667
9240	0.02	19.66666667
9300	0.02	19.73333333
9360	0.02	19.73333333
9420	0.02	19.73333333
9480	0.019	19.66666667
9540	0.02	19.73333333
9600	0.02	19.8
9660	0.02	19.86666667
9720	0.019	19.8
9780	0.019	19.8
9840	0.019	19.73333333
9900	0.019	19.66666667
9960	0.02	19.66666667
10020	0.019	19.6
10080	0.02	19.6

10140	0.021	19.66666667
10200	0.02	19.66666667
10260	0.02	19.66666667
10320	0.02	19.66666667
10380	0.02	19.73333333
10440	0.019	19.66666667
10500	0.02	19.66666667
10560	0.019	19.6
10620	0.02	19.66666667
10680	0.02	19.73333333
10740	0.019	19.73333333
10800	0.02	19.8
10860	0.019	19.73333333
10920	0.02	19.8
10980	0.019	19.73333333
11040	0.019	19.6
11100	0.019	19.53333333
11160	0.019	19.46666667
11220	0.02	19.46666667
11280	0.019	19.4
11340	0.018	19.33333333
11400	0.019	19.26666667
11460	0.019	19.26666667
11520	0.019	19.2
11580	0.019	19.13333333
11640	0.019	19.13333333
11700	0.019	19.06666667
11760	0.019	19.06666667
11820	0.019	19
11880	0.019	19
11940	0.019	19
12000	0.019	19
12060	0.022	19.2
12120	0.022	19.33333333
12180	0.019	19.33333333
12240	0.019	19.4
12300	0.019	19.4
12360	0.019	19.4
12420	0.019	19.4
12480	0.019	19.4
12540	0.019	19.4
12600	0.02	19.46666667
12660	0.02	19.53333333
12720	0.02	19.6
12780	0.02	19.66666667
12840	0.019	19.66666667
12900	0.019	19.66666667

12960	0.018	19.4
13020	0.019	19.2
13080	0.019	19.2
13140	0.019	19.2
13200	0.018	19.13333333
13260	0.018	19.06666667
13320	0.018	19
13380	0.017	18.86666667
13440	0.018	18.8
13500	0.018	18.66666667
13560	0.018	18.53333333
13620	0.017	18.33333333
13680	0.018	18.2
13740	0.018	18.13333333
13800	0.018	18.06666667
13860	0.018	18.06666667
13920	0.018	18
13980	0.018	17.93333333
14040	0.018	17.86666667
14100	0.018	17.86666667
14160	0.018	17.86666667
14220	0.018	17.86666667
14280	0.017	17.86666667
14340	0.017	17.8
14400	0.017	17.73333333
14460	0.017	17.66666667
14520	0.017	17.66666667
14580	0.017	17.6
14640	0.016	17.46666667
14700	0.017	17.4
14760	0.017	17.33333333
14820	0.017	17.26666667
14880	0.016	17.13333333
14940	0.016	17
15000	0.016	16.86666667
15060	0.017	16.8
15120	0.017	16.73333333
15180	0.017	16.73333333
15240	0.016	16.66666667
15300	0.015	16.53333333
15360	0.016	16.46666667
15420	0.016	16.4
15480	0.016	16.33333333
15540	0.016	16.33333333
15600	0.016	16.26666667
15660	0.017	16.26666667
15720	0.017	16.26666667

15780	0.016	16.26666667
15840	0.016	16.26666667
15900	0.016	16.26666667
15960	0.016	16.2
16020	0.016	16.13333333
16080	0.016	16.06666667
16140	0.016	16.06666667
16200	0.016	16.13333333
16260	0.017	16.2
16320	0.016	16.2
16380	0.016	16.2
16440	0.016	16.2
16500	0.016	16.2
16560	0.016	16.13333333
16620	0.017	16.13333333
16680	0.017	16.2
16740	0.016	16.2
16800	0.017	16.26666667
16860	0.016	16.26666667
16920	0.016	16.26666667
16980	0.016	16.26666667
17040	0.016	16.26666667
17100	0.016	16.26666667
17160	0.017	16.26666667
17220	0.016	16.26666667
17280	0.016	16.26666667
17340	0.016	16.26666667
17400	0.017	16.33333333
17460	0.018	16.46666667
17520	0.018	16.53333333
17580	0.017	16.53333333
17640	0.017	16.6
17700	0.02	16.8
17760	0.018	16.93333333
17820	0.017	17
17880	0.017	17.06666667
17940	0.018	17.2
18000	0.017	17.26666667
18060	0.018	17.33333333
18120	0.017	17.4
18180	0.016	17.4
18240	0.017	17.46666667
18300	0.023	17.86666667
18360	0.017	17.8
18420	0.017	17.73333333
18480	0.016	17.66666667
18540	0.016	17.6

18600	0.016	17.33333333
18660	0.016	17.2
18720	0.017	17.2
18780	0.016	17.13333333
18840	0.016	17
18900	0.017	17
18960	0.017	16.93333333
19020	0.017	16.93333333
19080	0.017	17
19140	0.016	16.93333333
19200	0.017	16.53333333
19260	0.017	16.53333333
19320	0.017	16.53333333
19380	0.017	16.6
19440	0.017	16.66666667
19500	0.017	16.73333333
19560	0.017	16.8
19620	0.017	16.8
19680	0.017	16.86666667
19740	0.017	16.93333333
19800	0.017	16.93333333
19860	0.017	16.93333333
19920	0.016	16.86666667
19980	0.023	17.26666667
20040	0.019	17.46666667
20100	0.016	17.4
20160	0.016	17.33333333
20220	0.016	17.26666667
20280	0.016	17.2
20340	0.015	17.06666667
20400	0.016	17
20460	0.015	16.86666667
20520	0.015	16.73333333
20580	0.015	16.6
20640	0.016	16.53333333
20700	0.015	16.4
20760	0.016	16.33333333
20820	0.015	16.26666667
20880	0.015	15.73333333
20940	0.015	15.46666667
21000	0.016	15.46666667
21060	0.015	15.4
21120	0.015	15.33333333
21180	0.015	15.26666667
21240	0.015	15.26666667
21300	0.015	15.2
21360	0.015	15.2

21420	0.015	15.2
21480	0.014	15.13333333
21540	0.015	15.06666667
21600	0.015	15.06666667
21660	0.015	15
21720	0.015	15
21780	0.014	14.93333333
21840	0.015	14.93333333
21900	0.015	14.86666667
21960	0.015	14.86666667
22020	0.016	14.93333333
22080	0.017	15.06666667
22140	0.018	15.26666667
22200	0.016	15.33333333
22260	0.016	15.4
22320	0.015	15.4
22380	0.015	15.46666667
22440	0.014	15.4
22500	0.014	15.33333333
22560	0.014	15.26666667
22620	0.014	15.2
22680	0.017	15.4
22740	0.016	15.46666667
22800	0.014	15.4
22860	0.027	16.2
22920	0.024	16.73333333
22980	0.014	16.53333333
23040	0.014	16.26666667
23100	0.018	16.4
23160	0.015	16.33333333
23220	0.014	16.26666667
23280	0.014	16.2
23340	0.014	16.2
23400	0.013	16.13333333
23460	0.014	16.13333333
23520	0.014	16.13333333
23580	0.014	15.93333333
23640	0.014	15.8
23700	0.013	15.73333333
23760	0.015	14.93333333
23820	0.014	14.26666667
23880	0.014	14.26666667
23940	0.014	14.26666667
24000	0.014	14
24060	0.015	14
24120	0.015	14.06666667
24180	0.015	14.13333333

24240	0.015	14.2
24300	0.015	14.33333333
24360	0.015	14.4
24420	0.015	14.46666667
24480	0.015	14.53333333
24540	0.015	14.6
24600	0.015	14.73333333
24660	0.016	14.8
24720	0.016	14.93333333
24780	0.016	15.06666667
24840	0.016	15.2
24900	0.016	15.33333333
24960	0.016	15.4
25020	0.016	15.46666667
25080	0.016	15.53333333
25140	0.016	15.6
25200	0.016	15.66666667
25260	0.016	15.73333333
25320	0.015	15.73333333
25380	0.016	15.8
25440	0.016	15.86666667
25500	0.016	15.93333333
25560	0.016	15.93333333
25620	0.016	15.93333333
25680	0.016	15.93333333
25740	0.016	15.93333333
25800	0.017	16
25860	0.016	16
25920	0.016	16
25980	0.016	16
26040	0.016	16
26100	0.015	15.93333333
26160	0.017	16
26220	0.015	16
26280	0.014	15.86666667
26340	0.015	15.8
26400	0.015	15.73333333
26460	0.014	15.6
26520	0.015	15.53333333
26580	0.015	15.46666667
26640	0.015	15.4
26700	0.014	15.2

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_060
Test Start Time	6:19:44 AM
Test Start Date	9/4/2020
Test Length [D:H:M]	0:03:55
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.021
Mass Minimum [mg/m3]	0.018
Mass Maximum [mg/m3]	0.032
Mass TWA [mg/m3]	0.01
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	235

Max Instant Conc.	Max 15 min TWA Conc.
32	25.26666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.019			
120	0.02			
180	0.02			
240	0.019			
300	0.021			
360	0.023			
420	0.023			
480	0.021			
540	0.021			
600	0.021			
660	0.024			
720	0.023			
780	0.024			
840	0.024			
900	0.023			21.73333333
960	0.025			22.13333333
1020	0.024			22.4
1080	0.024			22.66666667
1140	0.023			22.93333333
1200	0.023			23.06666667
1260	0.023			23.06666667
1320	0.021			22.93333333
1380	0.022			23
1440	0.022			23.06666667
1500	0.021			23.06666667
1560	0.021			22.86666667
1620	0.021			22.73333333

1680	0.021	22.53333333
1740	0.021	22.33333333
1800	0.022	22.26666667
1860	0.022	22.06666667
1920	0.022	21.93333333
1980	0.023	21.86666667
2040	0.023	21.86666667
2100	0.022	21.8
2160	0.022	21.73333333
2220	0.022	21.8
2280	0.022	21.8
2340	0.022	21.8
2400	0.023	21.93333333
2460	0.023	22.06666667
2520	0.025	22.33333333
2580	0.024	22.53333333
2640	0.024	22.73333333
2700	0.026	23
2760	0.025	23.2
2820	0.023	23.26666667
2880	0.022	23.2
2940	0.022	23.13333333
3000	0.022	23.13333333
3060	0.021	23.06666667
3120	0.023	23.13333333
3180	0.023	23.2
3240	0.023	23.26666667
3300	0.024	23.33333333
3360	0.024	23.4
3420	0.023	23.26666667
3480	0.022	23.13333333
3540	0.023	23.06666667
3600	0.022	22.8
3660	0.023	22.66666667
3720	0.023	22.66666667
3780	0.022	22.66666667
3840	0.022	22.66666667
3900	0.022	22.66666667
3960	0.022	22.73333333
4020	0.023	22.73333333
4080	0.022	22.66666667
4140	0.023	22.66666667
4200	0.023	22.6
4260	0.023	22.53333333
4320	0.023	22.53333333
4380	0.024	22.66666667
4440	0.024	22.73333333

4500	0.024	22.86666667
4560	0.024	22.93333333
4620	0.024	23
4680	0.023	23.06666667
4740	0.023	23.13333333
4800	0.024	23.26666667
4860	0.024	23.4
4920	0.024	23.46666667
4980	0.024	23.6
5040	0.024	23.66666667
5100	0.024	23.73333333
5160	0.024	23.8
5220	0.024	23.86666667
5280	0.032	24.4
5340	0.027	24.6
5400	0.027	24.8
5460	0.025	24.86666667
5520	0.024	24.86666667
5580	0.023	24.86666667
5640	0.024	24.93333333
5700	0.024	24.93333333
5760	0.025	25
5820	0.025	25.06666667
5880	0.024	25.06666667
5940	0.025	25.13333333
6000	0.025	25.2
6060	0.025	25.26666667
6120	0.024	25.26666667
6180	0.023	24.66666667
6240	0.022	24.33333333
6300	0.022	24
6360	0.022	23.8
6420	0.023	23.73333333
6480	0.023	23.73333333
6540	0.022	23.6
6600	0.022	23.46666667
6660	0.022	23.26666667
6720	0.024	23.2
6780	0.022	23.06666667
6840	0.022	22.86666667
6900	0.021	22.6
6960	0.022	22.4
7020	0.022	22.26666667
7080	0.021	22.13333333
7140	0.021	22.06666667
7200	0.021	22
7260	0.021	21.93333333

7320	0.021	21.8
7380	0.021	21.66666667
7440	0.021	21.6
7500	0.021	21.53333333
7560	0.021	21.46666667
7620	0.021	21.26666667
7680	0.021	21.2
7740	0.021	21.13333333
7800	0.021	21.13333333
7860	0.021	21.06666667
7920	0.021	21
7980	0.021	21
8040	0.02	20.93333333
8100	0.021	20.93333333
8160	0.02	20.86666667
8220	0.02	20.8
8280	0.02	20.73333333
8340	0.02	20.66666667
8400	0.02	20.6
8460	0.019	20.46666667
8520	0.02	20.4
8580	0.019	20.26666667
8640	0.02	20.2
8700	0.02	20.13333333
8760	0.02	20.06666667
8820	0.019	19.93333333
8880	0.02	19.86666667
8940	0.02	19.86666667
9000	0.02	19.8
9060	0.02	19.8
9120	0.02	19.8
9180	0.02	19.8
9240	0.019	19.73333333
9300	0.019	19.66666667
9360	0.019	19.66666667
9420	0.02	19.66666667
9480	0.02	19.73333333
9540	0.019	19.66666667
9600	0.019	19.6
9660	0.019	19.53333333
9720	0.019	19.53333333
9780	0.019	19.46666667
9840	0.019	19.4
9900	0.02	19.4
9960	0.02	19.4
10020	0.02	19.4
10080	0.02	19.4

10140	0.019	19.4
10200	0.019	19.4
10260	0.019	19.4
10320	0.019	19.33333333
10380	0.019	19.26666667
10440	0.018	19.2
10500	0.018	19.13333333
10560	0.018	19.06666667
10620	0.019	19.06666667
10680	0.019	19.06666667
10740	0.018	19
10800	0.018	18.86666667
10860	0.019	18.8
10920	0.019	18.73333333
10980	0.019	18.66666667
11040	0.019	18.66666667
11100	0.02	18.73333333
11160	0.02	18.8
11220	0.019	18.8
11280	0.019	18.8
11340	0.019	18.86666667
11400	0.019	18.93333333
11460	0.019	19
11520	0.019	19
11580	0.019	19
11640	0.019	19.06666667
11700	0.019	19.13333333
11760	0.018	19.06666667
11820	0.018	19
11880	0.018	18.93333333
11940	0.018	18.86666667
12000	0.018	18.73333333
12060	0.018	18.6
12120	0.018	18.53333333
12180	0.018	18.46666667
12240	0.018	18.4
12300	0.018	18.33333333
12360	0.019	18.33333333
12420	0.019	18.33333333
12480	0.019	18.33333333
12540	0.019	18.33333333
12600	0.018	18.26666667
12660	0.019	18.33333333
12720	0.019	18.4
12780	0.019	18.46666667
12840	0.019	18.53333333
12900	0.02	18.66666667

12960	0.019	18.73333333
13020	0.021	18.93333333
13080	0.019	19
13140	0.019	19.06666667
13200	0.018	19.06666667
13260	0.019	19.06666667
13320	0.018	19
13380	0.018	18.93333333
13440	0.018	18.86666667
13500	0.019	18.93333333
13560	0.019	18.93333333
13620	0.019	18.93333333
13680	0.018	18.86666667
13740	0.018	18.8
13800	0.018	18.66666667
13860	0.018	18.6
13920	0.019	18.46666667
13980	0.018	18.4
14040	0.018	18.33333333
14100	0.018	18.33333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_061
Test Start Time	6:47:23 AM
Test Start Date	9/9/2020
Test Length [D:H:M]	0:05:54
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.017
Mass Minimum [mg/m3]	0.014
Mass Maximum [mg/m3]	0.026
Mass TWA [mg/m3]	0.012
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	354

Max Instant Conc.	Max 15 min TWA Conc.
26	20.8

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.026			
120	0.025			
180	0.024			
240	0.023			
300	0.022			
360	0.021			
420	0.02			
480	0.019			
540	0.019			
600	0.019			
660	0.019			
720	0.018			
780	0.019			
840	0.019			
900	0.019			20.8
960	0.019			20.33333333
1020	0.019			19.93333333
1080	0.02			19.66666667
1140	0.019			19.4
1200	0.018			19.13333333
1260	0.018			18.93333333
1320	0.017			18.73333333
1380	0.016			18.53333333
1440	0.017			18.4
1500	0.016			18.2
1560	0.017			18.06666667
1620	0.019			18.13333333

1680	0.019	18.13333333
1740	0.018	18.06666667
1800	0.016	17.86666667
1860	0.017	17.73333333
1920	0.016	17.53333333
1980	0.016	17.26666667
2040	0.017	17.13333333
2100	0.016	17
2160	0.016	16.86666667
2220	0.016	16.8
2280	0.016	16.8
2340	0.016	16.73333333
2400	0.016	16.73333333
2460	0.015	16.6
2520	0.015	16.33333333
2580	0.016	16.13333333
2640	0.015	15.93333333
2700	0.016	15.93333333
2760	0.016	15.86666667
2820	0.015	15.8
2880	0.015	15.73333333
2940	0.015	15.6
3000	0.015	15.53333333
3060	0.015	15.46666667
3120	0.015	15.4
3180	0.015	15.33333333
3240	0.015	15.26666667
3300	0.015	15.2
3360	0.015	15.2
3420	0.015	15.2
3480	0.015	15.13333333
3540	0.015	15.13333333
3600	0.015	15.06666667
3660	0.015	15
3720	0.015	15
3780	0.015	15
3840	0.015	15
3900	0.015	15
3960	0.014	14.93333333
4020	0.014	14.86666667
4080	0.014	14.8
4140	0.014	14.73333333
4200	0.014	14.66666667
4260	0.014	14.6
4320	0.015	14.6
4380	0.014	14.53333333
4440	0.014	14.46666667

4500	0.015	14.46666667
4560	0.015	14.46666667
4620	0.015	14.46666667
4680	0.015	14.46666667
4740	0.015	14.46666667
4800	0.015	14.46666667
4860	0.015	14.53333333
4920	0.016	14.66666667
4980	0.016	14.8
5040	0.015	14.86666667
5100	0.015	14.93333333
5160	0.015	15
5220	0.015	15
5280	0.015	15.06666667
5340	0.015	15.13333333
5400	0.015	15.13333333
5460	0.015	15.13333333
5520	0.015	15.13333333
5580	0.015	15.13333333
5640	0.015	15.13333333
5700	0.015	15.13333333
5760	0.015	15.13333333
5820	0.015	15.06666667
5880	0.015	15
5940	0.015	15
6000	0.015	15
6060	0.015	15
6120	0.015	15
6180	0.015	15
6240	0.016	15.06666667
6300	0.015	15.06666667
6360	0.015	15.06666667
6420	0.015	15.06666667
6480	0.015	15.06666667
6540	0.016	15.13333333
6600	0.016	15.2
6660	0.016	15.26666667
6720	0.016	15.33333333
6780	0.016	15.4
6840	0.016	15.46666667
6900	0.016	15.53333333
6960	0.015	15.53333333
7020	0.016	15.6
7080	0.016	15.66666667
7140	0.015	15.6
7200	0.015	15.6
7260	0.015	15.6

7320	0.016	15.66666667
7380	0.015	15.66666667
7440	0.015	15.6
7500	0.015	15.53333333
7560	0.015	15.46666667
7620	0.015	15.4
7680	0.015	15.33333333
7740	0.015	15.26666667
7800	0.015	15.2
7860	0.016	15.26666667
7920	0.016	15.26666667
7980	0.016	15.26666667
8040	0.016	15.33333333
8100	0.016	15.4
8160	0.016	15.46666667
8220	0.018	15.6
8280	0.016	15.66666667
8340	0.016	15.73333333
8400	0.02	16.06666667
8460	0.018	16.26666667
8520	0.016	16.33333333
8580	0.016	16.4
8640	0.016	16.46666667
8700	0.015	16.46666667
8760	0.015	16.4
8820	0.015	16.33333333
8880	0.015	16.26666667
8940	0.015	16.2
9000	0.015	16.13333333
9060	0.016	16.13333333
9120	0.016	16
9180	0.015	15.93333333
9240	0.015	15.86666667
9300	0.015	15.53333333
9360	0.015	15.33333333
9420	0.018	15.46666667
9480	0.019	15.66666667
9540	0.016	15.66666667
9600	0.016	15.73333333
9660	0.016	15.8
9720	0.017	15.93333333
9780	0.016	16
9840	0.016	16.06666667
9900	0.016	16.13333333
9960	0.016	16.13333333
10020	0.016	16.13333333
10080	0.016	16.2

10140	0.016	16.26666667
10200	0.016	16.33333333
10260	0.016	16.4
10320	0.016	16.26666667
10380	0.016	16.06666667
10440	0.016	16.06666667
10500	0.016	16.06666667
10560	0.016	16.06666667
10620	0.016	16
10680	0.016	16
10740	0.016	16
10800	0.016	16
10860	0.016	16
10920	0.016	16
10980	0.016	16
11040	0.016	16
11100	0.016	16
11160	0.016	16
11220	0.017	16.06666667
11280	0.016	16.06666667
11340	0.016	16.06666667
11400	0.016	16.06666667
11460	0.016	16.06666667
11520	0.016	16.06666667
11580	0.016	16.06666667
11640	0.016	16.06666667
11700	0.017	16.13333333
11760	0.017	16.2
11820	0.016	16.2
11880	0.016	16.2
11940	0.016	16.2
12000	0.016	16.2
12060	0.016	16.2
12120	0.017	16.2
12180	0.018	16.33333333
12240	0.017	16.4
12300	0.017	16.46666667
12360	0.016	16.46666667
12420	0.016	16.46666667
12480	0.016	16.46666667
12540	0.017	16.53333333
12600	0.017	16.53333333
12660	0.018	16.6
12720	0.017	16.66666667
12780	0.017	16.73333333
12840	0.017	16.8
12900	0.018	16.93333333

12960	0.017	17
13020	0.017	17
13080	0.016	16.86666667
13140	0.017	16.86666667
13200	0.018	16.93333333
13260	0.017	17
13320	0.017	17.06666667
13380	0.018	17.2
13440	0.018	17.26666667
13500	0.018	17.33333333
13560	0.019	17.4
13620	0.018	17.46666667
13680	0.019	17.6
13740	0.02	17.8
13800	0.019	17.86666667
13860	0.018	17.93333333
13920	0.018	18
13980	0.019	18.2
14040	0.019	18.33333333
14100	0.018	18.33333333
14160	0.018	18.4
14220	0.018	18.46666667
14280	0.018	18.46666667
14340	0.018	18.46666667
14400	0.019	18.53333333
14460	0.018	18.46666667
14520	0.018	18.46666667
14580	0.019	18.46666667
14640	0.018	18.33333333
14700	0.018	18.26666667
14760	0.018	18.26666667
14820	0.019	18.33333333
14880	0.019	18.33333333
14940	0.019	18.33333333
15000	0.019	18.4
15060	0.019	18.46666667
15120	0.02	18.6
15180	0.02	18.73333333
15240	0.019	18.8
15300	0.018	18.73333333
15360	0.018	18.73333333
15420	0.018	18.73333333
15480	0.018	18.66666667
15540	0.018	18.66666667
15600	0.018	18.66666667
15660	0.019	18.73333333
15720	0.018	18.66666667

15780	0.018	18.6
15840	0.018	18.53333333
15900	0.018	18.46666667
15960	0.018	18.4
16020	0.018	18.26666667
16080	0.018	18.13333333
16140	0.018	18.06666667
16200	0.018	18.06666667
16260	0.019	18.13333333
16320	0.018	18.13333333
16380	0.018	18.13333333
16440	0.018	18.13333333
16500	0.018	18.13333333
16560	0.018	18.06666667
16620	0.018	18.06666667
16680	0.018	18.06666667
16740	0.018	18.06666667
16800	0.018	18.06666667
16860	0.018	18.06666667
16920	0.018	18.06666667
16980	0.017	18
17040	0.017	17.93333333
17100	0.023	18.26666667
17160	0.02	18.33333333
17220	0.019	18.4
17280	0.018	18.4
17340	0.019	18.46666667
17400	0.021	18.66666667
17460	0.02	18.8
17520	0.02	18.93333333
17580	0.019	19
17640	0.022	19.26666667
17700	0.021	19.46666667
17760	0.019	19.53333333
17820	0.019	19.6
17880	0.019	19.73333333
17940	0.019	19.86666667
18000	0.018	19.53333333
18060	0.018	19.4
18120	0.021	19.53333333
18180	0.02	19.66666667
18240	0.019	19.66666667
18300	0.018	19.46666667
18360	0.018	19.33333333
18420	0.018	19.2
18480	0.018	19.13333333
18540	0.018	18.86666667

18600	0.018	18.66666667
18660	0.018	18.6
18720	0.018	18.53333333
18780	0.018	18.46666667
18840	0.017	18.33333333
18900	0.017	18.26666667
18960	0.017	18.2
19020	0.017	17.93333333
19080	0.017	17.73333333
19140	0.017	17.6
19200	0.017	17.53333333
19260	0.017	17.46666667
19320	0.017	17.4
19380	0.017	17.33333333
19440	0.017	17.26666667
19500	0.017	17.2
19560	0.017	17.13333333
19620	0.017	17.06666667
19680	0.017	17
19740	0.017	17
19800	0.017	17
19860	0.017	17
19920	0.017	17
19980	0.017	17
20040	0.017	17
20100	0.017	17
20160	0.017	17
20220	0.017	17
20280	0.017	17
20340	0.017	17
20400	0.017	17
20460	0.017	17
20520	0.017	17
20580	0.017	17
20640	0.017	17
20700	0.018	17.06666667
20760	0.017	17.06666667
20820	0.017	17.06666667
20880	0.017	17.06666667
20940	0.017	17.06666667
21000	0.017	17.06666667
21060	0.017	17.06666667
21120	0.017	17.06666667
21180	0.017	17.06666667
21240	0.016	17

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_062
Test Start Time	6:31:45 AM
Test Start Date	9/10/2020
Test Length [D:H:M]	0:06:52
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.016
Mass Minimum [mg/m3]	0.01
Mass Maximum [mg/m3]	0.027
Mass TWA [mg/m3]	0.014
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	412

Max Instant Conc.	Max 15 min TWA Conc.
27	23.93333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.025			
120	0.025			
180	0.023			
240	0.023			
300	0.023			
360	0.022			
420	0.022			
480	0.022			
540	0.022			
600	0.022			
660	0.022			
720	0.022			
780	0.022			
840	0.022			
900	0.023			22.66666667
960	0.023			22.53333333
1020	0.023			22.4
1080	0.023			22.4
1140	0.022			22.33333333
1200	0.022			22.26666667
1260	0.023			22.33333333
1320	0.022			22.33333333
1380	0.022			22.33333333
1440	0.022			22.33333333
1500	0.022			22.33333333
1560	0.022			22.33333333
1620	0.022			22.33333333

1680	0.022	22.33333333
1740	0.023	22.4
1800	0.023	22.4
1860	0.023	22.4
1920	0.023	22.4
1980	0.023	22.4
2040	0.023	22.46666667
2100	0.022	22.46666667
2160	0.022	22.4
2220	0.022	22.4
2280	0.021	22.33333333
2340	0.021	22.26666667
2400	0.021	22.2
2460	0.021	22.13333333
2520	0.021	22.06666667
2580	0.022	22.06666667
2640	0.023	22.06666667
2700	0.023	22.06666667
2760	0.023	22.06666667
2820	0.023	22.06666667
2880	0.023	22.06666667
2940	0.022	22
3000	0.022	22
3060	0.023	22.06666667
3120	0.023	22.13333333
3180	0.023	22.26666667
3240	0.023	22.4
3300	0.024	22.6
3360	0.023	22.73333333
3420	0.024	22.93333333
3480	0.024	23.06666667
3540	0.024	23.13333333
3600	0.024	23.2
3660	0.027	23.46666667
3720	0.026	23.66666667
3780	0.024	23.73333333
3840	0.024	23.86666667
3900	0.023	23.93333333
3960	0.023	23.93333333
4020	0.023	23.93333333
4080	0.023	23.93333333
4140	0.022	23.86666667
4200	0.022	23.73333333
4260	0.022	23.66666667
4320	0.022	23.53333333
4380	0.022	23.4
4440	0.022	23.26666667

4500	0.022	23.13333333
4560	0.022	22.8
4620	0.022	22.53333333
4680	0.023	22.46666667
4740	0.023	22.4
4800	0.023	22.4
4860	0.022	22.33333333
4920	0.022	22.26666667
4980	0.022	22.2
5040	0.022	22.2
5100	0.022	22.2
5160	0.023	22.26666667
5220	0.024	22.4
5280	0.023	22.46666667
5340	0.023	22.53333333
5400	0.023	22.6
5460	0.023	22.66666667
5520	0.023	22.73333333
5580	0.022	22.66666667
5640	0.022	22.6
5700	0.022	22.53333333
5760	0.021	22.46666667
5820	0.021	22.4
5880	0.022	22.4
5940	0.022	22.4
6000	0.022	22.4
6060	0.023	22.4
6120	0.023	22.33333333
6180	0.022	22.26666667
6240	0.023	22.26666667
6300	0.022	22.2
6360	0.022	22.13333333
6420	0.022	22.06666667
6480	0.022	22.06666667
6540	0.023	22.13333333
6600	0.023	22.2
6660	0.022	22.26666667
6720	0.022	22.33333333
6780	0.022	22.33333333
6840	0.022	22.33333333
6900	0.022	22.33333333
6960	0.022	22.26666667
7020	0.022	22.2
7080	0.022	22.2
7140	0.022	22.13333333
7200	0.022	22.13333333
7260	0.022	22.13333333

7320	0.022	22.13333333
7380	0.023	22.2
7440	0.023	22.2
7500	0.023	22.2
7560	0.023	22.26666667
7620	0.023	22.33333333
7680	0.023	22.4
7740	0.023	22.46666667
7800	0.023	22.53333333
7860	0.023	22.6
7920	0.021	22.53333333
7980	0.021	22.46666667
8040	0.021	22.4
8100	0.02	22.26666667
8160	0.021	22.2
8220	0.02	22.06666667
8280	0.02	21.86666667
8340	0.019	21.6
8400	0.019	21.33333333
8460	0.019	21.06666667
8520	0.02	20.86666667
8580	0.02	20.66666667
8640	0.02	20.46666667
8700	0.02	20.26666667
8760	0.02	20.06666667
8820	0.021	20.06666667
8880	0.02	20
8940	0.02	19.93333333
9000	0.019	19.86666667
9060	0.018	19.66666667
9120	0.018	19.53333333
9180	0.018	19.4
9240	0.018	19.33333333
9300	0.017	19.2
9360	0.018	19.13333333
9420	0.017	18.93333333
9480	0.016	18.66666667
9540	0.016	18.4
9600	0.017	18.2
9660	0.018	18.06666667
9720	0.018	17.86666667
9780	0.018	17.73333333
9840	0.018	17.6
9900	0.018	17.53333333
9960	0.017	17.46666667
10020	0.017	17.4
10080	0.017	17.33333333

10140	0.017	17.26666667
10200	0.017	17.26666667
10260	0.018	17.26666667
10320	0.017	17.26666667
10380	0.017	17.33333333
10440	0.018	17.46666667
10500	0.017	17.46666667
10560	0.017	17.4
10620	0.017	17.33333333
10680	0.017	17.26666667
10740	0.017	17.2
10800	0.017	17.13333333
10860	0.016	17.06666667
10920	0.017	17.06666667
10980	0.016	17
11040	0.017	17
11100	0.017	17
11160	0.017	16.93333333
11220	0.017	16.93333333
11280	0.017	16.93333333
11340	0.017	16.86666667
11400	0.017	16.86666667
11460	0.017	16.86666667
11520	0.016	16.8
11580	0.016	16.73333333
11640	0.016	16.66666667
11700	0.016	16.6
11760	0.015	16.53333333
11820	0.016	16.46666667
11880	0.016	16.46666667
11940	0.016	16.4
12000	0.017	16.4
12060	0.017	16.4
12120	0.015	16.26666667
12180	0.016	16.2
12240	0.015	16.06666667
12300	0.015	15.93333333
12360	0.015	15.8
12420	0.015	15.73333333
12480	0.015	15.66666667
12540	0.015	15.6
12600	0.015	15.53333333
12660	0.015	15.53333333
12720	0.015	15.46666667
12780	0.014	15.33333333
12840	0.013	15.13333333
12900	0.013	14.86666667

12960	0.012	14.53333333
13020	0.013	14.4
13080	0.014	14.26666667
13140	0.014	14.2
13200	0.014	14.13333333
13260	0.013	14
13320	0.013	13.86666667
13380	0.013	13.73333333
13440	0.013	13.6
13500	0.012	13.4
13560	0.013	13.26666667
13620	0.013	13.13333333
13680	0.012	13
13740	0.012	12.93333333
13800	0.012	12.86666667
13860	0.012	12.86666667
13920	0.012	12.8
13980	0.012	12.66666667
14040	0.012	12.53333333
14100	0.012	12.4
14160	0.013	12.4
14220	0.012	12.33333333
14280	0.012	12.26666667
14340	0.012	12.2
14400	0.012	12.2
14460	0.012	12.13333333
14520	0.012	12.06666667
14580	0.012	12.06666667
14640	0.012	12.06666667
14700	0.012	12.06666667
14760	0.012	12.06666667
14820	0.011	12
14880	0.012	12
14940	0.011	11.93333333
15000	0.012	11.93333333
15060	0.012	11.86666667
15120	0.012	11.86666667
15180	0.012	11.86666667
15240	0.012	11.86666667
15300	0.012	11.86666667
15360	0.012	11.86666667
15420	0.012	11.86666667
15480	0.012	11.86666667
15540	0.012	11.86666667
15600	0.012	11.86666667
15660	0.012	11.86666667
15720	0.012	11.93333333

15780	0.012	11.93333333
15840	0.012	12
15900	0.012	12
15960	0.012	12
16020	0.012	12
16080	0.012	12
16140	0.012	12
16200	0.012	12
16260	0.012	12
16320	0.011	11.93333333
16380	0.011	11.86666667
16440	0.011	11.8
16500	0.011	11.73333333
16560	0.011	11.66666667
16620	0.011	11.6
16680	0.011	11.53333333
16740	0.011	11.46666667
16800	0.011	11.4
16860	0.011	11.33333333
16920	0.011	11.26666667
16980	0.011	11.2
17040	0.011	11.13333333
17100	0.011	11.06666667
17160	0.011	11
17220	0.011	11
17280	0.011	11
17340	0.011	11
17400	0.011	11
17460	0.011	11
17520	0.011	11
17580	0.011	11
17640	0.01	10.93333333
17700	0.01	10.86666667
17760	0.01	10.8
17820	0.01	10.73333333
17880	0.01	10.66666667
17940	0.01	10.6
18000	0.01	10.53333333
18060	0.01	10.46666667
18120	0.01	10.4
18180	0.01	10.33333333
18240	0.01	10.26666667
18300	0.01	10.2
18360	0.012	10.26666667
18420	0.01	10.2
18480	0.01	10.13333333
18540	0.01	10.13333333

18600	0.01	10.13333333
18660	0.01	10.13333333
18720	0.01	10.13333333
18780	0.01	10.13333333
18840	0.01	10.13333333
18900	0.01	10.13333333
18960	0.01	10.13333333
19020	0.01	10.13333333
19080	0.01	10.13333333
19140	0.012	10.26666667
19200	0.01	10.26666667
19260	0.01	10.13333333
19320	0.01	10.13333333
19380	0.01	10.13333333
19440	0.012	10.26666667
19500	0.011	10.33333333
19560	0.01	10.33333333
19620	0.011	10.4
19680	0.012	10.53333333
19740	0.01	10.53333333
19800	0.011	10.6
19860	0.011	10.66666667
19920	0.011	10.73333333
19980	0.011	10.8
20040	0.011	10.73333333
20100	0.011	10.8
20160	0.011	10.86666667
20220	0.011	10.93333333
20280	0.011	11
20340	0.011	10.93333333
20400	0.011	10.93333333
20460	0.011	11
20520	0.011	11
20580	0.011	10.93333333
20640	0.011	11
20700	0.011	11
20760	0.011	11
20820	0.011	11
20880	0.011	11
20940	0.011	11
21000	0.011	11
21060	0.011	11
21120	0.012	11.06666667
21180	0.011	11.06666667
21240	0.011	11.06666667
21300	0.011	11.06666667
21360	0.011	11.06666667

21420	0.011	11.06666667
21480	0.011	11.06666667
21540	0.011	11.06666667
21600	0.011	11.06666667
21660	0.012	11.13333333
21720	0.012	11.2
21780	0.012	11.26666667
21840	0.012	11.33333333
21900	0.012	11.4
21960	0.012	11.46666667
22020	0.011	11.4
22080	0.012	11.46666667
22140	0.012	11.53333333
22200	0.011	11.53333333
22260	0.011	11.53333333
22320	0.013	11.66666667
22380	0.011	11.66666667
22440	0.011	11.66666667
22500	0.011	11.66666667
22560	0.012	11.66666667
22620	0.011	11.6
22680	0.011	11.53333333
22740	0.012	11.53333333
22800	0.013	11.6
22860	0.012	11.6
22920	0.011	11.6
22980	0.011	11.53333333
23040	0.011	11.46666667
23100	0.011	11.46666667
23160	0.012	11.53333333
23220	0.015	11.66666667
23280	0.011	11.66666667
23340	0.015	11.93333333
23400	0.011	11.93333333
23460	0.013	12
23520	0.011	12
23580	0.013	12.13333333
23640	0.011	12.06666667
23700	0.014	12.13333333
23760	0.011	12.06666667
23820	0.013	12.2
23880	0.011	12.2
23940	0.011	12.2
24000	0.011	12.2
24060	0.011	12.13333333
24120	0.012	11.93333333
24180	0.011	11.93333333

24240	0.011	11.66666667
24300	0.011	11.66666667
24360	0.014	11.73333333
24420	0.012	11.8
24480	0.013	11.8
24540	0.012	11.86666667
24600	0.014	11.86666667
24660	0.012	11.93333333
24720	0.011	11.8

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_063
Test Start Time	6:33:31 AM
Test Start Date	9/11/2020
Test Length [D:H:M]	0:07:18
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.017
Mass Minimum [mg/m3]	0.01
Mass Maximum [mg/m3]	0.037
Mass TWA [mg/m3]	0.016
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	438

Max Instant Conc.	Max 15 min TWA Conc.
37	36.26666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.035			
120	0.036			
180	0.036			
240	0.036			
300	0.035			
360	0.035			
420	0.036			
480	0.036			
540	0.035			
600	0.037			
660	0.037			
720	0.036			
780	0.036			
840	0.037			
900	0.037			36
960	0.036			36.06666667
1020	0.036			36.06666667
1080	0.036			36.06666667
1140	0.036			36.06666667
1200	0.036			36.13333333
1260	0.036			36.2
1320	0.036			36.2
1380	0.036			36.2
1440	0.036			36.26666667
1500	0.036			36.2
1560	0.036			36.13333333
1620	0.035			36.06666667

1680	0.036	36.06666667
1740	0.035	35.93333333
1800	0.035	35.8
1860	0.035	35.73333333
1920	0.036	35.73333333
1980	0.036	35.73333333
2040	0.035	35.66666667
2100	0.035	35.6
2160	0.036	35.6
2220	0.036	35.6
2280	0.035	35.53333333
2340	0.035	35.46666667
2400	0.035	35.4
2460	0.034	35.26666667
2520	0.034	35.2
2580	0.034	35.06666667
2640	0.033	34.93333333
2700	0.034	34.86666667
2760	0.034	34.8
2820	0.036	34.8
2880	0.035	34.73333333
2940	0.034	34.66666667
3000	0.034	34.6
3060	0.033	34.4
3120	0.033	34.2
3180	0.033	34.06666667
3240	0.033	33.93333333
3300	0.033	33.8
3360	0.033	33.73333333
3420	0.033	33.66666667
3480	0.033	33.6
3540	0.033	33.6
3600	0.032	33.46666667
3660	0.032	33.33333333
3720	0.031	33
3780	0.031	32.73333333
3840	0.03	32.46666667
3900	0.03	32.2
3960	0.031	32.06666667
4020	0.03	31.86666667
4080	0.03	31.66666667
4140	0.03	31.46666667
4200	0.03	31.26666667
4260	0.03	31.06666667
4320	0.03	30.86666667
4380	0.029	30.6
4440	0.029	30.33333333

4500	0.028	30.06666667
4560	0.029	29.86666667
4620	0.027	29.6
4680	0.028	29.4
4740	0.028	29.26666667
4800	0.027	29.06666667
4860	0.027	28.8
4920	0.027	28.6
4980	0.026	28.33333333
5040	0.025	28
5100	0.024	27.6
5160	0.024	27.2
5220	0.024	26.8
5280	0.025	26.53333333
5340	0.024	26.2
5400	0.024	25.93333333
5460	0.024	25.6
5520	0.024	25.4
5580	0.023	25.06666667
5640	0.022	24.66666667
5700	0.022	24.33333333
5760	0.021	23.93333333
5820	0.021	23.53333333
5880	0.02	23.13333333
5940	0.019	22.73333333
6000	0.019	22.4
6060	0.019	22.06666667
6120	0.018	21.66666667
6180	0.018	21.2
6240	0.017	20.73333333
6300	0.017	20.26666667
6360	0.017	19.8
6420	0.018	19.4
6480	0.017	19
6540	0.017	18.66666667
6600	0.016	18.26666667
6660	0.016	17.93333333
6720	0.016	17.6
6780	0.016	17.33333333
6840	0.016	17.13333333
6900	0.016	16.93333333
6960	0.015	16.66666667
7020	0.016	16.53333333
7080	0.016	16.4
7140	0.016	16.33333333
7200	0.016	16.26666667
7260	0.017	16.26666667

7320	0.017	16.2
7380	0.017	16.2
7440	0.017	16.2
7500	0.017	16.26666667
7560	0.017	16.33333333
7620	0.018	16.46666667
7680	0.017	16.53333333
7740	0.018	16.66666667
7800	0.018	16.8
7860	0.018	17
7920	0.018	17.13333333
7980	0.018	17.26666667
8040	0.019	17.46666667
8100	0.019	17.66666667
8160	0.02	17.86666667
8220	0.02	18.06666667
8280	0.02	18.26666667
8340	0.02	18.46666667
8400	0.02	18.66666667
8460	0.021	18.93333333
8520	0.021	19.13333333
8580	0.021	19.4
8640	0.021	19.6
8700	0.021	19.8
8760	0.022	20.06666667
8820	0.021	20.26666667
8880	0.021	20.46666667
8940	0.02	20.53333333
9000	0.019	20.53333333
9060	0.019	20.46666667
9120	0.017	20.26666667
9180	0.018	20.13333333
9240	0.018	20
9300	0.018	19.86666667
9360	0.018	19.66666667
9420	0.018	19.46666667
9480	0.018	19.26666667
9540	0.018	19.06666667
9600	0.018	18.86666667
9660	0.018	18.6
9720	0.018	18.4
9780	0.018	18.2
9840	0.017	18
9900	0.017	17.86666667
9960	0.017	17.73333333
10020	0.017	17.73333333
10080	0.017	17.66666667

10140	0.016	17.53333333
10200	0.017	17.46666667
10260	0.017	17.4
10320	0.017	17.33333333
10380	0.018	17.33333333
10440	0.017	17.26666667
10500	0.017	17.2
10560	0.017	17.13333333
10620	0.016	17
10680	0.016	16.86666667
10740	0.018	16.93333333
10800	0.017	16.93333333
10860	0.016	16.86666667
10920	0.017	16.86666667
10980	0.016	16.8
11040	0.015	16.73333333
11100	0.015	16.6
11160	0.015	16.46666667
11220	0.015	16.33333333
11280	0.015	16.13333333
11340	0.015	16
11400	0.015	15.86666667
11460	0.015	15.73333333
11520	0.015	15.66666667
11580	0.015	15.6
11640	0.015	15.4
11700	0.015	15.26666667
11760	0.014	15.13333333
11820	0.014	14.93333333
11880	0.014	14.8
11940	0.015	14.8
12000	0.015	14.8
12060	0.014	14.73333333
12120	0.014	14.66666667
12180	0.015	14.66666667
12240	0.014	14.6
12300	0.014	14.53333333
12360	0.014	14.46666667
12420	0.015	14.46666667
12480	0.014	14.4
12540	0.014	14.33333333
12600	0.014	14.26666667
12660	0.014	14.26666667
12720	0.014	14.26666667
12780	0.014	14.26666667
12840	0.013	14.13333333
12900	0.013	14

12960	0.013	13.93333333
13020	0.013	13.86666667
13080	0.013	13.73333333
13140	0.013	13.66666667
13200	0.013	13.6
13260	0.013	13.53333333
13320	0.013	13.4
13380	0.013	13.33333333
13440	0.013	13.26666667
13500	0.013	13.2
13560	0.013	13.13333333
13620	0.013	13.06666667
13680	0.012	12.93333333
13740	0.012	12.86666667
13800	0.013	12.86666667
13860	0.013	12.86666667
13920	0.013	12.86666667
13980	0.013	12.86666667
14040	0.013	12.86666667
14100	0.013	12.86666667
14160	0.013	12.86666667
14220	0.012	12.8
14280	0.012	12.73333333
14340	0.013	12.73333333
14400	0.013	12.73333333
14460	0.012	12.66666667
14520	0.013	12.66666667
14580	0.013	12.73333333
14640	0.013	12.8
14700	0.013	12.8
14760	0.013	12.8
14820	0.013	12.8
14880	0.013	12.8
14940	0.013	12.8
15000	0.013	12.8
15060	0.013	12.8
15120	0.013	12.86666667
15180	0.013	12.93333333
15240	0.012	12.86666667
15300	0.012	12.8
15360	0.013	12.86666667
15420	0.013	12.86666667
15480	0.013	12.86666667
15540	0.013	12.86666667
15600	0.013	12.86666667
15660	0.012	12.8
15720	0.012	12.73333333

15780	0.012	12.66666667
15840	0.013	12.66666667
15900	0.013	12.66666667
15960	0.012	12.6
16020	0.012	12.53333333
16080	0.012	12.46666667
16140	0.012	12.46666667
16200	0.012	12.46666667
16260	0.012	12.4
16320	0.012	12.33333333
16380	0.012	12.26666667
16440	0.012	12.2
16500	0.012	12.13333333
16560	0.011	12.06666667
16620	0.012	12.06666667
16680	0.012	12.06666667
16740	0.011	11.93333333
16800	0.011	11.8
16860	0.011	11.73333333
16920	0.011	11.66666667
16980	0.011	11.6
17040	0.011	11.53333333
17100	0.011	11.46666667
17160	0.011	11.4
17220	0.011	11.33333333
17280	0.011	11.26666667
17340	0.011	11.2
17400	0.011	11.13333333
17460	0.011	11.13333333
17520	0.011	11.06666667
17580	0.011	11
17640	0.011	11
17700	0.011	11
17760	0.012	11.06666667
17820	0.011	11.06666667
17880	0.012	11.13333333
17940	0.012	11.2
18000	0.012	11.26666667
18060	0.011	11.26666667
18120	0.011	11.26666667
18180	0.011	11.26666667
18240	0.011	11.26666667
18300	0.011	11.26666667
18360	0.011	11.26666667
18420	0.011	11.26666667
18480	0.011	11.26666667
18540	0.011	11.26666667

18600	0.011	11.26666667
18660	0.011	11.2
18720	0.011	11.2
18780	0.011	11.13333333
18840	0.011	11.06666667
18900	0.011	11
18960	0.011	11
19020	0.011	11
19080	0.011	11
19140	0.011	11
19200	0.011	11
19260	0.011	11
19320	0.011	11
19380	0.011	11
19440	0.01	10.93333333
19500	0.01	10.86666667
19560	0.011	10.86666667
19620	0.011	10.86666667
19680	0.011	10.86666667
19740	0.011	10.86666667
19800	0.011	10.86666667
19860	0.011	10.86666667
19920	0.011	10.86666667
19980	0.011	10.86666667
20040	0.011	10.86666667
20100	0.011	10.86666667
20160	0.011	10.86666667
20220	0.013	11
20280	0.011	11
20340	0.011	11.06666667
20400	0.012	11.2
20460	0.011	11.2
20520	0.01	11.13333333
20580	0.01	11.06666667
20640	0.01	11
20700	0.011	11
20760	0.011	11
20820	0.011	11
20880	0.013	11.13333333
20940	0.011	11.13333333
21000	0.01	11.06666667
21060	0.011	11.06666667
21120	0.011	10.93333333
21180	0.01	10.86666667
21240	0.01	10.8
21300	0.011	10.73333333
21360	0.01	10.66666667

21420	0.011	10.73333333
21480	0.011	10.8
21540	0.011	10.86666667
21600	0.011	10.86666667
21660	0.011	10.86666667
21720	0.011	10.86666667
21780	0.011	10.73333333
21840	0.011	10.73333333
21900	0.011	10.8
21960	0.011	10.8
22020	0.011	10.8
22080	0.011	10.86666667
22140	0.011	10.93333333
22200	0.011	10.93333333
22260	0.011	11
22320	0.011	11
22380	0.011	11
22440	0.011	11
22500	0.011	11
22560	0.011	11
22620	0.011	11
22680	0.011	11
22740	0.011	11
22800	0.011	11
22860	0.011	11
22920	0.011	11
22980	0.011	11
23040	0.011	11
23100	0.011	11
23160	0.011	11
23220	0.011	11
23280	0.011	11
23340	0.011	11
23400	0.011	11
23460	0.011	11
23520	0.011	11
23580	0.012	11.06666667
23640	0.011	11.06666667
23700	0.011	11.06666667
23760	0.011	11.06666667
23820	0.011	11.06666667
23880	0.011	11.06666667
23940	0.011	11.06666667
24000	0.011	11.06666667
24060	0.011	11.06666667
24120	0.011	11.06666667
24180	0.011	11.06666667

24240	0.011	11.06666667
24300	0.011	11.06666667
24360	0.013	11.2
24420	0.011	11.2
24480	0.011	11.13333333
24540	0.012	11.2
24600	0.011	11.2
24660	0.011	11.2
24720	0.011	11.2
24780	0.011	11.2
24840	0.015	11.46666667
24900	0.013	11.6
24960	0.011	11.6
25020	0.011	11.6
25080	0.011	11.6
25140	0.011	11.6
25200	0.011	11.6
25260	0.011	11.46666667
25320	0.011	11.46666667
25380	0.011	11.46666667
25440	0.011	11.4
25500	0.011	11.4
25560	0.011	11.4
25620	0.011	11.4
25680	0.011	11.4
25740	0.012	11.2
25800	0.011	11.06666667
25860	0.012	11.13333333
25920	0.011	11.13333333
25980	0.011	11.13333333
26040	0.011	11.13333333
26100	0.011	11.13333333
26160	0.01	11.06666667
26220	0.012	11.13333333
26280	0.012	11.2

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_064
Test Start Time	6:46:17 AM
Test Start Date	9/15/2020
Test Length [D:H:M]	0:06:15
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.01
Mass Minimum [mg/m3]	0.004
Mass Maximum [mg/m3]	0.087
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	375

Max Instant Conc.	Max 15 min TWA Conc.
87	21.53333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.013			
120	0.008			
180	0.008			
240	0.009			
300	0.01			
360	0.015			
420	0.011			
480	0.015			
540	0.013			
600	0.02			
660	0.024			
720	0.011			
780	0.011			
840	0.007			
900	0.009			12.26666667
960	0.006			11.8
1020	0.005			11.6
1080	0.004			11.33333333
1140	0.006			11.13333333
1200	0.004			10.73333333
1260	0.004			10
1320	0.005			9.6
1380	0.007			9.066666667
1440	0.008			8.733333333
1500	0.006			7.8
1560	0.006			6.6
1620	0.004			6.133333333

1680	0.005	5.733333333
1740	0.005	5.6
1800	0.007	5.466666667
1860	0.007	5.533333333
1920	0.004	5.466666667
1980	0.004	5.466666667
2040	0.004	5.333333333
2100	0.004	5.333333333
2160	0.008	5.6
2220	0.005	5.6
2280	0.006	5.533333333
2340	0.005	5.333333333
2400	0.006	5.333333333
2460	0.004	5.2
2520	0.005	5.266666667
2580	0.006	5.333333333
2640	0.005	5.333333333
2700	0.009	5.466666667
2760	0.007	5.466666667
2820	0.007	5.666666667
2880	0.006	5.8
2940	0.007	6
3000	0.009	6.333333333
3060	0.005	6.133333333
3120	0.007	6.266666667
3180	0.005	6.2
3240	0.005	6.2
3300	0.006	6.2
3360	0.007	6.4
3420	0.006	6.466666667
3480	0.005	6.4
3540	0.005	6.4
3600	0.007	6.266666667
3660	0.005	6.133333333
3720	0.005	6
3780	0.005	5.933333333
3840	0.006	5.866666667
3900	0.005	5.6
3960	0.006	5.666666667
4020	0.004	5.466666667
4080	0.004	5.4
4140	0.004	5.333333333
4200	0.004	5.2
4260	0.005	5.066666667
4320	0.005	5
4380	0.01	5.333333333
4440	0.004	5.266666667

4500	0.006	5.2
4560	0.009	5.466666667
4620	0.005	5.466666667
4680	0.005	5.466666667
4740	0.006	5.466666667
4800	0.007	5.6
4860	0.005	5.533333333
4920	0.007	5.733333333
4980	0.006	5.866666667
5040	0.007	6.066666667
5100	0.009	6.4
5160	0.013	6.933333333
5220	0.011	7.333333333
5280	0.014	7.6
5340	0.009	7.933333333
5400	0.007	8
5460	0.006	7.8
5520	0.006	7.866666667
5580	0.006	7.933333333
5640	0.005	7.866666667
5700	0.006	7.8
5760	0.005	7.8
5820	0.01	8
5880	0.005	7.933333333
5940	0.005	7.8
6000	0.005	7.533333333
6060	0.005	7
6120	0.005	6.6
6180	0.006	6.066666667
6240	0.005	5.8
6300	0.005	5.666666667
6360	0.005	5.6
6420	0.005	5.533333333
6480	0.005	5.466666667
6540	0.006	5.533333333
6600	0.006	5.533333333
6660	0.006	5.6
6720	0.006	5.333333333
6780	0.006	5.4
6840	0.005	5.4
6900	0.005	5.4
6960	0.006	5.466666667
7020	0.005	5.466666667
7080	0.005	5.4
7140	0.005	5.4
7200	0.005	5.4
7260	0.005	5.4

7320	0.005	5.4
7380	0.026	6.8
7440	0.01	7.066666667
7500	0.008	7.2
7560	0.009	7.4
7620	0.009	7.6
7680	0.009	7.8
7740	0.01	8.133333333
7800	0.01	8.466666667
7860	0.012	8.866666667
7920	0.011	9.266666667
7980	0.017	10.06666667
8040	0.007	10.2
8100	0.011	10.6
8160	0.007	10.73333333
8220	0.008	10.93333333
8280	0.01	9.866666667
8340	0.009	9.8
8400	0.011	10
8460	0.015	10.4
8520	0.007	10.26666667
8580	0.011	10.4
8640	0.012	10.53333333
8700	0.019	11.13333333
8760	0.008	10.86666667
8820	0.011	10.86666667
8880	0.018	10.93333333
8940	0.011	11.2
9000	0.01	11.13333333
9060	0.012	11.46666667
9120	0.026	12.66666667
9180	0.012	12.8
9240	0.016	13.26666667
9300	0.029	14.46666667
9360	0.014	14.4
9420	0.016	15
9480	0.012	15.06666667
9540	0.008	14.8
9600	0.01	14.2
9660	0.014	14.6
9720	0.011	14.6
9780	0.011	14.13333333
9840	0.011	14.13333333
9900	0.009	14.06666667
9960	0.009	13.86666667
10020	0.015	13.13333333
10080	0.01	13

10140	0.015	12.93333333
10200	0.021	12.4
10260	0.009	12.06666667
10320	0.029	12.93333333
10380	0.023	13.66666667
10440	0.048	16.33333333
10500	0.034	17.93333333
10560	0.022	18.46666667
10620	0.012	18.53333333
10680	0.011	18.53333333
10740	0.037	20.26666667
10800	0.008	20.2
10860	0.019	20.86666667
10920	0.025	21.53333333
10980	0.008	21.4
11040	0.009	21
11100	0.01	20.26666667
11160	0.009	20.26666667
11220	0.009	18.93333333
11280	0.02	18.73333333
11340	0.008	16.06666667
11400	0.012	14.6
11460	0.007	13.6
11520	0.024	14.4
11580	0.016	14.73333333
11640	0.011	13
11700	0.011	13.2
11760	0.024	13.53333333
11820	0.009	12.46666667
11880	0.035	14.26666667
11940	0.024	15.26666667
12000	0.017	15.73333333
12060	0.018	16.33333333
12120	0.023	17.26666667
12180	0.01	16.6
12240	0.016	17.13333333
12300	0.011	17.06666667
12360	0.019	17.86666667
12420	0.008	16.8
12480	0.009	16.33333333
12540	0.012	16.4
12600	0.008	16.2
12660	0.012	15.4
12720	0.015	15.8
12780	0.009	14.06666667
12840	0.024	14.06666667
12900	0.01	13.6

12960	0.008	12.93333333
13020	0.026	13.13333333
13080	0.011	13.2
13140	0.028	14
13200	0.015	14.26666667
13260	0.007	13.46666667
13320	0.007	13.4
13380	0.01	13.46666667
13440	0.008	13.2
13500	0.008	13.2
13560	0.008	12.93333333
13620	0.011	12.66666667
13680	0.008	12.6
13740	0.009	11.6
13800	0.008	11.46666667
13860	0.012	11.73333333
13920	0.007	10.46666667
13980	0.007	10.2
14040	0.007	8.8
14100	0.007	8.266666667
14160	0.007	8.266666667
14220	0.007	8.266666667
14280	0.087	13.4
14340	0.007	13.33333333
14400	0.007	13.26666667
14460	0.007	13.2
14520	0.008	13
14580	0.007	12.93333333
14640	0.007	12.8
14700	0.007	12.73333333
14760	0.007	12.4
14820	0.007	12.4
14880	0.01	12.6
14940	0.007	12.6
15000	0.007	12.6
15060	0.007	12.6
15120	0.009	12.73333333
15180	0.008	7.466666667
15240	0.008	7.533333333
15300	0.007	7.533333333
15360	0.008	7.6
15420	0.008	7.6
15480	0.008	7.666666667
15540	0.008	7.733333333
15600	0.008	7.8
15660	0.008	7.866666667
15720	0.008	7.933333333

15780	0.007	7.733333333
15840	0.008	7.8
15900	0.007	7.8
15960	0.008	7.866666667
16020	0.008	7.8
16080	0.008	7.8
16140	0.008	7.8
16200	0.008	7.866666667
16260	0.008	7.866666667
16320	0.008	7.866666667
16380	0.008	7.866666667
16440	0.009	7.933333333
16500	0.013	8.266666667
16560	0.009	8.333333333
16620	0.01	8.466666667
16680	0.009	8.6
16740	0.009	8.666666667
16800	0.009	8.8
16860	0.009	8.866666667
16920	0.009	8.933333333
16980	0.009	9
17040	0.009	9.066666667
17100	0.009	9.133333333
17160	0.009	9.2
17220	0.009	9.266666667
17280	0.009	9.333333333
17340	0.01	9.4
17400	0.011	9.266666667
17460	0.009	9.266666667
17520	0.009	9.2
17580	0.009	9.2
17640	0.009	9.2
17700	0.009	9.2
17760	0.009	9.2
17820	0.009	9.2
17880	0.009	9.2
17940	0.009	9.2
18000	0.01	9.266666667
18060	0.01	9.333333333
18120	0.01	9.4
18180	0.01	9.466666667
18240	0.009	9.4
18300	0.009	9.266666667
18360	0.01	9.333333333
18420	0.01	9.4
18480	0.01	9.466666667
18540	0.01	9.533333333

18600	0.009	9.533333333
18660	0.009	9.533333333
18720	0.009	9.533333333
18780	0.009	9.533333333
18840	0.01	9.6
18900	0.009	9.533333333
18960	0.009	9.466666667
19020	0.009	9.4
19080	0.009	9.333333333
19140	0.009	9.333333333
19200	0.009	9.333333333
19260	0.009	9.266666667
19320	0.009	9.2
19380	0.009	9.133333333
19440	0.009	9.066666667
19500	0.009	9.066666667
19560	0.009	9.066666667
19620	0.009	9.066666667
19680	0.01	9.133333333
19740	0.009	9.066666667
19800	0.009	9.066666667
19860	0.009	9.066666667
19920	0.01	9.133333333
19980	0.009	9.133333333
20040	0.009	9.133333333
20100	0.009	9.133333333
20160	0.009	9.133333333
20220	0.02	9.866666667
20280	0.01	9.933333333
20340	0.009	9.933333333
20400	0.009	9.933333333
20460	0.009	9.933333333
20520	0.009	9.933333333
20580	0.009	9.866666667
20640	0.009	9.866666667
20700	0.009	9.866666667
20760	0.009	9.866666667
20820	0.009	9.8
20880	0.009	9.8
20940	0.009	9.8
21000	0.009	9.8
21060	0.009	9.8
21120	0.009	9.066666667
21180	0.009	9
21240	0.009	9
21300	0.009	9
21360	0.009	9

21420	0.009	9
21480	0.009	9
21540	0.009	9
21600	0.009	9
21660	0.009	9
21720	0.009	9
21780	0.009	9
21840	0.009	9
21900	0.009	9
21960	0.009	9
22020	0.009	9
22080	0.009	9
22140	0.009	9
22200	0.009	9
22260	0.009	9
22320	0.009	9
22380	0.01	9.066666667
22440	0.009	9.066666667
22500	0.01	9.133333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_065
Test Start Time	6:32:54 AM
Test Start Date	9/16/2020
Test Length [D:H:M]	0:06:24
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.012
Mass Minimum [mg/m3]	0.008
Mass Maximum [mg/m3]	0.027
Mass TWA [mg/m3]	0.009
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	384

Max Instant Conc.	Max 15 min TWA Conc.
27	15.4

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.008			
120	0.009			
180	0.009			
240	0.01			
300	0.01			
360	0.011			
420	0.011			
480	0.011			
540	0.011			
600	0.011			
660	0.01			
720	0.01			
780	0.01			
840	0.01			
900	0.009			10
960	0.009			10.06666667
1020	0.009			10.06666667
1080	0.009			10.06666667
1140	0.009			10
1200	0.009			9.933333333
1260	0.009			9.8
1320	0.009			9.666666667
1380	0.009			9.533333333
1440	0.009			9.4
1500	0.009			9.266666667
1560	0.009			9.2
1620	0.009			9.133333333

1680	0.009	9.066666667
1740	0.009	9
1800	0.009	9
1860	0.009	9
1920	0.014	9.333333333
1980	0.017	9.866666667
2040	0.012	10.06666667
2100	0.016	10.53333333
2160	0.01	10.6
2220	0.009	10.6
2280	0.02	11.33333333
2340	0.021	12.13333333
2400	0.012	12.33333333
2460	0.012	12.53333333
2520	0.014	12.86666667
2580	0.015	13.26666667
2640	0.02	14
2700	0.022	14.86666667
2760	0.017	15.4
2820	0.012	15.26666667
2880	0.012	14.93333333
2940	0.012	14.93333333
3000	0.012	14.66666667
3060	0.013	14.86666667
3120	0.012	15.06666667
3180	0.012	14.53333333
3240	0.012	13.93333333
3300	0.014	14.06666667
3360	0.014	14.2
3420	0.014	14.2
3480	0.013	14.06666667
3540	0.012	13.53333333
3600	0.012	12.86666667
3660	0.012	12.53333333
3720	0.012	12.53333333
3780	0.012	12.53333333
3840	0.011	12.46666667
3900	0.011	12.4
3960	0.011	12.26666667
4020	0.012	12.26666667
4080	0.013	12.33333333
4140	0.013	12.4
4200	0.011	12.2
4260	0.01	11.93333333
4320	0.01	11.66666667
4380	0.01	11.46666667
4440	0.01	11.33333333

4500	0.01	11.2
4560	0.011	11.13333333
4620	0.012	11.13333333
4680	0.011	11.06666667
4740	0.013	11.2
4800	0.013	11.33333333
4860	0.012	11.4
4920	0.012	11.4
4980	0.012	11.33333333
5040	0.011	11.2
5100	0.01	11.13333333
5160	0.01	11.13333333
5220	0.011	11.2
5280	0.012	11.33333333
5340	0.013	11.53333333
5400	0.013	11.73333333
5460	0.012	11.8
5520	0.013	11.86666667
5580	0.013	12
5640	0.013	12
5700	0.013	12
5760	0.012	12
5820	0.012	12
5880	0.012	12
5940	0.012	12.06666667
6000	0.012	12.2
6060	0.011	12.26666667
6120	0.012	12.33333333
6180	0.012	12.33333333
6240	0.011	12.2
6300	0.011	12.06666667
6360	0.012	12.06666667
6420	0.011	11.93333333
6480	0.011	11.8
6540	0.011	11.66666667
6600	0.011	11.53333333
6660	0.011	11.46666667
6720	0.012	11.46666667
6780	0.011	11.4
6840	0.011	11.33333333
6900	0.011	11.26666667
6960	0.011	11.26666667
7020	0.011	11.2
7080	0.012	11.2
7140	0.011	11.2
7200	0.012	11.26666667
7260	0.012	11.26666667

7320	0.011	11.26666667
7380	0.011	11.26666667
7440	0.011	11.26666667
7500	0.011	11.26666667
7560	0.011	11.26666667
7620	0.011	11.2
7680	0.011	11.2
7740	0.011	11.2
7800	0.011	11.2
7860	0.012	11.26666667
7920	0.012	11.33333333
7980	0.011	11.26666667
8040	0.012	11.33333333
8100	0.012	11.33333333
8160	0.012	11.33333333
8220	0.012	11.4
8280	0.012	11.46666667
8340	0.012	11.53333333
8400	0.012	11.6
8460	0.012	11.66666667
8520	0.012	11.73333333
8580	0.012	11.8
8640	0.012	11.86666667
8700	0.012	11.93333333
8760	0.012	11.93333333
8820	0.012	11.93333333
8880	0.012	12
8940	0.014	12.13333333
9000	0.013	12.2
9060	0.012	12.2
9120	0.013	12.26666667
9180	0.012	12.26666667
9240	0.012	12.26666667
9300	0.012	12.26666667
9360	0.012	12.26666667
9420	0.012	12.26666667
9480	0.012	12.26666667
9540	0.012	12.26666667
9600	0.013	12.33333333
9660	0.013	12.4
9720	0.013	12.46666667
9780	0.013	12.53333333
9840	0.013	12.46666667
9900	0.013	12.46666667
9960	0.013	12.53333333
10020	0.013	12.53333333
10080	0.013	12.6

10140	0.012	12.6
10200	0.012	12.6
10260	0.012	12.6
10320	0.012	12.6
10380	0.013	12.66666667
10440	0.013	12.73333333
10500	0.013	12.73333333
10560	0.013	12.73333333
10620	0.016	12.93333333
10680	0.017	13.2
10740	0.018	13.53333333
10800	0.013	13.53333333
10860	0.013	13.53333333
10920	0.012	13.46666667
10980	0.012	13.4
11040	0.012	13.4
11100	0.011	13.33333333
11160	0.011	13.26666667
11220	0.011	13.2
11280	0.011	13.06666667
11340	0.011	12.93333333
11400	0.012	12.86666667
11460	0.011	12.73333333
11520	0.011	12.4
11580	0.012	12.06666667
11640	0.011	11.6
11700	0.012	11.53333333
11760	0.011	11.4
11820	0.011	11.33333333
11880	0.011	11.26666667
11940	0.011	11.2
12000	0.011	11.2
12060	0.011	11.2
12120	0.011	11.2
12180	0.011	11.2
12240	0.011	11.2
12300	0.013	11.26666667
12360	0.011	11.26666667
12420	0.011	11.26666667
12480	0.012	11.26666667
12540	0.014	11.46666667
12600	0.011	11.4
12660	0.01	11.33333333
12720	0.01	11.26666667
12780	0.01	11.2
12840	0.01	11.13333333
12900	0.011	11.13333333

12960	0.011	11.13333333
13020	0.011	11.13333333
13080	0.011	11.13333333
13140	0.011	11.13333333
13200	0.011	11
13260	0.011	11
13320	0.011	11
13380	0.011	10.93333333
13440	0.011	10.73333333
13500	0.011	10.73333333
13560	0.011	10.8
13620	0.011	10.86666667
13680	0.011	10.93333333
13740	0.011	11
13800	0.012	11.06666667
13860	0.011	11.06666667
13920	0.011	11.06666667
13980	0.011	11.06666667
14040	0.011	11.06666667
14100	0.011	11.06666667
14160	0.011	11.06666667
14220	0.011	11.06666667
14280	0.011	11.06666667
14340	0.011	11.06666667
14400	0.011	11.06666667
14460	0.011	11.06666667
14520	0.011	11.06666667
14580	0.011	11.06666667
14640	0.011	11.06666667
14700	0.011	11
14760	0.011	11
14820	0.011	11
14880	0.015	11.26666667
14940	0.012	11.33333333
15000	0.011	11.33333333
15060	0.011	11.33333333
15120	0.012	11.4
15180	0.014	11.6
15240	0.012	11.66666667
15300	0.011	11.66666667
15360	0.011	11.66666667
15420	0.011	11.66666667
15480	0.011	11.66666667
15540	0.011	11.66666667
15600	0.011	11.66666667
15660	0.011	11.66666667
15720	0.011	11.66666667

15780	0.011	11.4
15840	0.011	11.33333333
15900	0.011	11.33333333
15960	0.011	11.33333333
16020	0.011	11.26666667
16080	0.011	11.06666667
16140	0.011	11
16200	0.011	11
16260	0.011	11
16320	0.011	11
16380	0.01	10.93333333
16440	0.01	10.86666667
16500	0.01	10.8
16560	0.01	10.73333333
16620	0.018	11.2
16680	0.011	11.2
16740	0.011	11.2
16800	0.011	11.2
16860	0.011	11.2
16920	0.011	11.2
16980	0.011	11.2
17040	0.011	11.2
17100	0.014	11.4
17160	0.015	11.66666667
17220	0.011	11.66666667
17280	0.011	11.73333333
17340	0.011	11.8
17400	0.011	11.86666667
17460	0.011	11.93333333
17520	0.011	11.46666667
17580	0.011	11.46666667
17640	0.011	11.46666667
17700	0.011	11.46666667
17760	0.011	11.46666667
17820	0.011	11.46666667
17880	0.011	11.46666667
17940	0.011	11.46666667
18000	0.011	11.26666667
18060	0.011	11
18120	0.011	11
18180	0.011	11
18240	0.011	11
18300	0.027	12.06666667
18360	0.011	12.06666667
18420	0.015	12.33333333
18480	0.013	12.46666667
18540	0.011	12.46666667

18600	0.011	12.46666667
18660	0.011	12.46666667
18720	0.011	12.46666667
18780	0.011	12.46666667
18840	0.011	12.46666667
18900	0.011	12.46666667
18960	0.012	12.53333333
19020	0.011	12.53333333
19080	0.011	12.53333333
19140	0.011	12.53333333
19200	0.011	11.46666667
19260	0.012	11.53333333
19320	0.011	11.26666667
19380	0.011	11.13333333
19440	0.012	11.2
19500	0.012	11.26666667
19560	0.012	11.33333333
19620	0.013	11.46666667
19680	0.012	11.53333333
19740	0.012	11.6
19800	0.012	11.66666667
19860	0.011	11.6
19920	0.012	11.66666667
19980	0.011	11.66666667
20040	0.011	11.66666667
20100	0.012	11.73333333
20160	0.011	11.66666667
20220	0.012	11.73333333
20280	0.012	11.8
20340	0.012	11.8
20400	0.012	11.8
20460	0.012	11.8
20520	0.012	11.73333333
20580	0.012	11.73333333
20640	0.012	11.73333333
20700	0.012	11.73333333
20760	0.012	11.8
20820	0.012	11.8
20880	0.012	11.86666667
20940	0.012	11.93333333
21000	0.012	11.93333333
21060	0.012	12
21120	0.012	12
21180	0.012	12
21240	0.012	12
21300	0.012	12
21360	0.021	12.6

21420	0.017	12.93333333
21480	0.012	12.93333333
21540	0.012	12.93333333
21600	0.012	12.93333333
21660	0.012	12.93333333
21720	0.012	12.93333333
21780	0.012	12.93333333
21840	0.012	12.93333333
21900	0.012	12.93333333
21960	0.012	12.93333333
22020	0.013	13
22080	0.012	13
22140	0.012	13
22200	0.012	13
22260	0.012	12.4
22320	0.012	12.06666667
22380	0.012	12.06666667
22440	0.012	12.06666667
22500	0.013	12.13333333
22560	0.013	12.2
22620	0.013	12.26666667
22680	0.017	12.6
22740	0.013	12.66666667
22800	0.013	12.73333333
22860	0.012	12.73333333
22920	0.013	12.73333333
22980	0.013	12.8
23040	0.017	13.13333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_066
Test Start Time	6:15:34 AM
Test Start Date	9/17/2020
Test Length [D:H:M]	0:13:48
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.016
Mass Minimum [mg/m3]	0.007
Mass Maximum [mg/m3]	0.127
Mass TWA [mg/m3]	0.012
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	367

Max Instant Conc.	Max 15 min TWA Conc.
127	63.73333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.007			
120	0.008			
180	0.008			
240	0.008			
300	0.008			
360	0.009			
420	0.009			
480	0.009			
540	0.009			
600	0.009			
660	0.01			
720	0.009			
780	0.009			
840	0.009			
900	0.009			8.666666667
960	0.009			8.8
1020	0.009			8.866666667
1080	0.009			8.933333333
1140	0.011			9.133333333
1200	0.017			9.733333333
1260	0.015			10.13333333
1320	0.013			10.4
1380	0.012			10.6
1440	0.013			10.86666667
1500	0.014			11.2
1560	0.011			11.26666667
1620	0.01			11.33333333

1680	0.009	11.33333333
1740	0.01	11.4
1800	0.008	11.33333333
1860	0.008	11.26666667
1920	0.008	11.2
1980	0.008	11.13333333
2040	0.008	10.93333333
2100	0.008	10.33333333
2160	0.009	9.933333333
2220	0.009	9.666666667
2280	0.009	9.466666667
2340	0.01	9.266666667
2400	0.01	9
2460	0.009	8.866666667
2520	0.01	8.866666667
2580	0.021	9.666666667
2640	0.033	11.2
2700	0.042	13.46666667
2760	0.113	20.46666667
2820	0.127	28.4
2880	0.031	29.93333333
2940	0.058	33.26666667
3000	0.073	37.6
3060	0.073	41.86666667
3120	0.081	46.66666667
3180	0.062	50.2
3240	0.058	53.4
3300	0.058	56.6
3360	0.05	59.33333333
3420	0.056	62.4
3480	0.041	63.73333333
3540	0.028	63.4
3600	0.025	62.26666667
3660	0.026	56.46666667
3720	0.024	49.6
3780	0.025	49.2
3840	0.019	46.6
3900	0.015	42.73333333
3960	0.017	39
4020	0.017	34.73333333
4080	0.016	31.66666667
4140	0.014	28.73333333
4200	0.013	25.73333333
4260	0.012	23.2
4320	0.013	20.33333333
4380	0.011	18.33333333
4440	0.01	17.13333333

4500	0.011	16.2
4560	0.01	15.13333333
4620	0.01	14.2
4680	0.014	13.46666667
4740	0.021	13.6
4800	0.019	13.86666667
4860	0.022	14.2
4920	0.025	14.73333333
4980	0.024	15.26666667
5040	0.02	15.66666667
5100	0.018	16
5160	0.018	16.4
5220	0.023	17.06666667
5280	0.026	18.06666667
5340	0.024	19
5400	0.016	19.33333333
5460	0.012	19.46666667
5520	0.011	19.53333333
5580	0.011	19.33333333
5640	0.012	18.73333333
5700	0.012	18.26666667
5760	0.015	17.8
5820	0.013	17
5880	0.013	16.26666667
5940	0.013	15.8
6000	0.012	15.4
6060	0.012	15
6120	0.013	14.33333333
6180	0.012	13.4
6240	0.012	12.6
6300	0.012	12.33333333
6360	0.011	12.26666667
6420	0.011	12.26666667
6480	0.012	12.33333333
6540	0.012	12.33333333
6600	0.012	12.33333333
6660	0.012	12.13333333
6720	0.012	12.06666667
6780	0.012	12
6840	0.012	11.93333333
6900	0.013	12
6960	0.011	11.93333333
7020	0.01	11.73333333
7080	0.011	11.66666667
7140	0.011	11.6
7200	0.012	11.6
7260	0.012	11.66666667

7320	0.012	11.73333333
7380	0.012	11.73333333
7440	0.012	11.73333333
7500	0.011	11.66666667
7560	0.011	11.6
7620	0.011	11.53333333
7680	0.012	11.53333333
7740	0.012	11.53333333
7800	0.013	11.53333333
7860	0.013	11.66666667
7920	0.014	11.93333333
7980	0.014	12.13333333
8040	0.014	12.33333333
8100	0.015	12.53333333
8160	0.014	12.66666667
8220	0.015	12.86666667
8280	0.016	13.13333333
8340	0.014	13.26666667
8400	0.017	13.66666667
8460	0.015	13.93333333
8520	0.014	14.13333333
8580	0.013	14.2
8640	0.014	14.33333333
8700	0.014	14.4
8760	0.014	14.46666667
8820	0.014	14.46666667
8880	0.015	14.53333333
8940	0.017	14.73333333
9000	0.016	14.8
9060	0.015	14.86666667
9120	0.015	14.86666667
9180	0.015	14.8
9240	0.014	14.8
9300	0.014	14.6
9360	0.014	14.53333333
9420	0.014	14.53333333
9480	0.014	14.6
9540	0.014	14.6
9600	0.014	14.6
9660	0.014	14.6
9720	0.014	14.6
9780	0.014	14.53333333
9840	0.014	14.33333333
9900	0.014	14.2
9960	0.014	14.13333333
10020	0.014	14.06666667
10080	0.014	14

10140	0.014	14
10200	0.014	14
10260	0.014	14
10320	0.013	13.93333333
10380	0.013	13.86666667
10440	0.012	13.73333333
10500	0.013	13.66666667
10560	0.013	13.6
10620	0.013	13.53333333
10680	0.013	13.46666667
10740	0.012	13.33333333
10800	0.013	13.26666667
10860	0.013	13.2
10920	0.013	13.13333333
10980	0.013	13.06666667
11040	0.013	13
11100	0.013	12.93333333
11160	0.013	12.86666667
11220	0.013	12.86666667
11280	0.013	12.86666667
11340	0.013	12.93333333
11400	0.013	12.93333333
11460	0.013	12.93333333
11520	0.013	12.93333333
11580	0.013	12.93333333
11640	0.013	13
11700	0.013	13
11760	0.013	13
11820	0.013	13
11880	0.013	13
11940	0.013	13
12000	0.013	13
12060	0.013	13
12120	0.013	13
12180	0.013	13
12240	0.013	13
12300	0.013	13
12360	0.013	13
12420	0.014	13.06666667
12480	0.013	13.06666667
12540	0.013	13.06666667
12600	0.013	13.06666667
12660	0.013	13.06666667
12720	0.013	13.06666667
12780	0.013	13.06666667
12840	0.013	13.06666667
12900	0.013	13.06666667

12960	0.013	13.06666667
13020	0.014	13.13333333
13080	0.014	13.2
13140	0.014	13.26666667
13200	0.014	13.33333333
13260	0.014	13.4
13320	0.014	13.4
13380	0.014	13.46666667
13440	0.014	13.53333333
13500	0.014	13.6
13560	0.015	13.73333333
13620	0.014	13.8
13680	0.014	13.86666667
13740	0.014	13.93333333
13800	0.014	14
13860	0.014	14.06666667
13920	0.014	14.06666667
13980	0.014	14.06666667
14040	0.014	14.06666667
14100	0.014	14.06666667
14160	0.014	14.06666667
14220	0.014	14.06666667
14280	0.015	14.13333333
14340	0.015	14.2
14400	0.014	14.2
14460	0.015	14.2
14520	0.015	14.26666667
14580	0.015	14.33333333
14640	0.015	14.4
14700	0.014	14.4
14760	0.015	14.46666667
14820	0.015	14.53333333
14880	0.015	14.6
14940	0.015	14.66666667
15000	0.015	14.73333333
15060	0.015	14.8
15120	0.015	14.86666667
15180	0.015	14.86666667
15240	0.015	14.86666667
15300	0.015	14.93333333
15360	0.014	14.86666667
15420	0.014	14.8
15480	0.014	14.73333333
15540	0.014	14.66666667
15600	0.014	14.66666667
15660	0.015	14.66666667
15720	0.015	14.66666667

15780	0.014	14.6
15840	0.015	14.6
15900	0.015	14.6
15960	0.015	14.6
16020	0.015	14.6
16080	0.015	14.6
16140	0.015	14.6
16200	0.015	14.6
16260	0.015	14.66666667
16320	0.015	14.73333333
16380	0.015	14.8
16440	0.015	14.86666667
16500	0.015	14.93333333
16560	0.015	14.93333333
16620	0.015	14.93333333
16680	0.015	15
16740	0.014	14.93333333
16800	0.015	14.93333333
16860	0.014	14.86666667
16920	0.014	14.8
16980	0.015	14.8
17040	0.014	14.73333333
17100	0.014	14.66666667
17160	0.014	14.6
17220	0.014	14.53333333
17280	0.014	14.46666667
17340	0.015	14.46666667
17400	0.014	14.4
17460	0.015	14.4
17520	0.014	14.33333333
17580	0.015	14.33333333
17640	0.015	14.4
17700	0.015	14.4
17760	0.015	14.46666667
17820	0.015	14.53333333
17880	0.015	14.53333333
17940	0.015	14.6
18000	0.015	14.66666667
18060	0.015	14.73333333
18120	0.015	14.8
18180	0.015	14.86666667
18240	0.014	14.8
18300	0.015	14.86666667
18360	0.014	14.8
18420	0.015	14.86666667
18480	0.014	14.8
18540	0.014	14.73333333

18600	0.014	14.66666667
18660	0.014	14.6
18720	0.014	14.53333333
18780	0.015	14.53333333
18840	0.014	14.46666667
18900	0.014	14.4
18960	0.014	14.33333333
19020	0.015	14.33333333
19080	0.014	14.26666667
19140	0.014	14.26666667
19200	0.014	14.2
19260	0.014	14.2
19320	0.014	14.13333333
19380	0.015	14.2
19440	0.014	14.2
19500	0.014	14.2
19560	0.014	14.2
19620	0.014	14.2
19680	0.014	14.13333333
19740	0.021	14.6
19800	0.018	14.86666667
19860	0.014	14.86666667
19920	0.014	14.8
19980	0.014	14.8
20040	0.019	15.13333333
20100	0.014	15.13333333
20160	0.015	15.2
20220	0.015	15.26666667
20280	0.014	15.2
20340	0.014	15.2
20400	0.014	15.2
20460	0.015	15.26666667
20520	0.015	15.33333333
20580	0.014	15.33333333
20640	0.015	14.93333333
20700	0.015	14.73333333
20760	0.015	14.8
20820	0.015	14.86666667
20880	0.015	14.93333333
20940	0.015	14.66666667
21000	0.015	14.73333333
21060	0.015	14.73333333
21120	0.015	14.73333333
21180	0.016	14.86666667
21240	0.015	14.93333333
21300	0.015	15
21360	0.015	15

21420	0.015	15
21480	0.017	15.2
21540	0.015	15.2
21600	0.014	15.13333333
21660	0.015	15.13333333
21720	0.015	15.13333333
21780	0.015	15.13333333
21840	0.015	15.13333333
21900	0.015	15.13333333
21960	0.015	15.13333333
49728	0.021	15.53333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_067
Test Start Time	7:20:24 AM
Test Start Date	9/18/2020
Test Length [D:H:M]	0:05:08
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.014
Mass Maximum [mg/m3]	0.056
Mass TWA [mg/m3]	0.012
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	308

Max Instant Conc.	Max 15 min TWA Conc.
56	23.93333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.017			
120	0.017			
180	0.018			
240	0.018			
300	0.017			
360	0.018			
420	0.018			
480	0.018			
540	0.018			
600	0.018			
660	0.018			
720	0.02			
780	0.019			
840	0.019			
900	0.019			18.13333333
960	0.018			18.2
1020	0.02			18.4
1080	0.023			18.73333333
1140	0.02			18.86666667
1200	0.018			18.93333333
1260	0.018			18.93333333
1320	0.018			18.93333333
1380	0.018			18.93333333
1440	0.018			18.93333333
1500	0.019			19
1560	0.019			19.06666667
1620	0.018			18.93333333

1680	0.018	18.86666667
1740	0.018	18.8
1800	0.018	18.73333333
1860	0.018	18.73333333
1920	0.017	18.53333333
1980	0.017	18.13333333
2040	0.017	17.93333333
2100	0.017	17.86666667
2160	0.017	17.8
2220	0.018	17.8
2280	0.017	17.73333333
2340	0.017	17.66666667
2400	0.017	17.53333333
2460	0.017	17.4
2520	0.017	17.33333333
2580	0.018	17.33333333
2640	0.018	17.33333333
2700	0.018	17.33333333
2760	0.018	17.33333333
2820	0.018	17.4
2880	0.018	17.46666667
2940	0.018	17.53333333
3000	0.018	17.6
3060	0.018	17.66666667
3120	0.018	17.66666667
3180	0.018	17.73333333
3240	0.018	17.8
3300	0.018	17.86666667
3360	0.018	17.93333333
3420	0.018	18
3480	0.017	17.93333333
3540	0.017	17.86666667
3600	0.018	17.86666667
3660	0.018	17.86666667
3720	0.017	17.8
3780	0.017	17.73333333
3840	0.017	17.66666667
3900	0.017	17.6
3960	0.017	17.53333333
4020	0.017	17.46666667
4080	0.017	17.4
4140	0.017	17.33333333
4200	0.018	17.33333333
4260	0.018	17.33333333
4320	0.018	17.33333333
4380	0.018	17.4
4440	0.018	17.46666667

4500	0.018	17.46666667
4560	0.019	17.53333333
4620	0.021	17.8
4680	0.018	17.86666667
4740	0.018	17.93333333
4800	0.018	18
4860	0.018	18.06666667
4920	0.019	18.2
4980	0.018	18.26666667
5040	0.018	18.33333333
5100	0.018	18.33333333
5160	0.018	18.33333333
5220	0.019	18.4
5280	0.018	18.4
5340	0.018	18.4
5400	0.018	18.4
5460	0.018	18.33333333
5520	0.018	18.13333333
5580	0.018	18.13333333
5640	0.018	18.13333333
5700	0.018	18.13333333
5760	0.019	18.2
5820	0.019	18.2
5880	0.021	18.4
5940	0.025	18.86666667
6000	0.034	19.93333333
6060	0.02	20.06666667
6120	0.018	20
6180	0.02	20.13333333
6240	0.02	20.26666667
6300	0.02	20.4
6360	0.019	20.46666667
6420	0.018	20.46666667
6480	0.02	20.6
6540	0.019	20.66666667
6600	0.02	20.8
6660	0.02	20.86666667
6720	0.023	21.13333333
6780	0.019	21
6840	0.018	20.53333333
6900	0.019	19.53333333
6960	0.02	19.53333333
7020	0.019	19.6
7080	0.022	19.73333333
7140	0.024	20
7200	0.02	20
7260	0.025	20.4

7320	0.019	20.46666667
7380	0.018	20.33333333
7440	0.019	20.33333333
7500	0.019	20.26666667
7560	0.017	20.06666667
7620	0.018	19.73333333
7680	0.018	19.66666667
7740	0.02	19.8
7800	0.018	19.73333333
7860	0.021	19.8
7920	0.018	19.73333333
7980	0.017	19.4
8040	0.018	19
8100	0.018	18.86666667
8160	0.018	18.4
8220	0.019	18.4
8280	0.017	18.33333333
8340	0.017	18.2
8400	0.017	18.06666667
8460	0.017	18.06666667
8520	0.017	18
8580	0.017	17.93333333
8640	0.017	17.73333333
8700	0.017	17.66666667
8760	0.017	17.4
8820	0.017	17.33333333
8880	0.017	17.33333333
8940	0.018	17.33333333
9000	0.017	17.26666667
9060	0.018	17.26666667
9120	0.017	17.13333333
9180	0.017	17.13333333
9240	0.017	17.13333333
9300	0.016	17.06666667
9360	0.017	17.06666667
9420	0.017	17.06666667
9480	0.017	17.06666667
9540	0.017	17.06666667
9600	0.017	17.06666667
9660	0.017	17.06666667
9720	0.016	17
9780	0.016	16.93333333
9840	0.016	16.8
9900	0.016	16.73333333
9960	0.016	16.6
10020	0.016	16.53333333
10080	0.017	16.53333333

10140	0.025	17.06666667
10200	0.023	17.53333333
10260	0.02	17.73333333
10320	0.019	17.86666667
10380	0.016	17.8
10440	0.017	17.8
10500	0.016	17.73333333
10560	0.017	17.73333333
10620	0.016	17.73333333
10680	0.016	17.73333333
10740	0.017	17.8
10800	0.016	17.8
10860	0.017	17.86666667
10920	0.018	18
10980	0.016	17.93333333
11040	0.016	17.33333333
11100	0.016	16.86666667
11160	0.017	16.66666667
11220	0.017	16.53333333
11280	0.016	16.53333333
11340	0.017	16.53333333
11400	0.017	16.6
11460	0.025	17.13333333
11520	0.016	17.13333333
11580	0.022	17.53333333
11640	0.017	17.53333333
11700	0.017	17.6
11760	0.031	18.53333333
11820	0.019	18.6
11880	0.019	18.8
11940	0.021	19.13333333
12000	0.023	19.6
12060	0.02	19.8
12120	0.019	19.93333333
12180	0.016	19.93333333
12240	0.016	19.86666667
12300	0.045	21.73333333
12360	0.056	23.8
12420	0.018	23.93333333
12480	0.016	23.53333333
12540	0.017	23.53333333
12600	0.016	23.46666667
12660	0.016	22.46666667
12720	0.017	22.33333333
12780	0.016	22.13333333
12840	0.017	21.86666667
12900	0.016	21.4

12960	0.016	21.13333333
13020	0.016	20.93333333
13080	0.016	20.93333333
13140	0.016	20.93333333
13200	0.016	19
13260	0.015	16.26666667
13320	0.016	16.13333333
13380	0.015	16.06666667
13440	0.016	16
13500	0.016	16
13560	0.016	16
13620	0.016	15.93333333
13680	0.016	15.93333333
13740	0.016	15.86666667
13800	0.015	15.8
13860	0.015	15.73333333
13920	0.016	15.73333333
13980	0.016	15.73333333
14040	0.015	15.66666667
14100	0.023	16.13333333
14160	0.023	16.66666667
14220	0.016	16.66666667
14280	0.016	16.73333333
14340	0.017	16.8
14400	0.02	17.06666667
14460	0.016	17.06666667
14520	0.017	17.13333333
14580	0.017	17.2
14640	0.016	17.2
14700	0.018	17.4
14760	0.017	17.53333333
14820	0.016	17.53333333
14880	0.016	17.53333333
14940	0.016	17.6
15000	0.016	17.13333333
15060	0.016	16.66666667
15120	0.016	16.66666667
15180	0.016	16.66666667
15240	0.017	16.66666667
15300	0.016	16.4
15360	0.023	16.86666667
15420	0.022	17.2
15480	0.017	17.2
15540	0.017	17.26666667
15600	0.017	17.2
15660	0.02	17.4
15720	0.018	17.53333333

15780	0.017	17.6
15840	0.018	17.73333333
15900	0.016	17.73333333
15960	0.017	17.8
16020	0.017	17.86666667
16080	0.016	17.86666667
16140	0.016	17.8
16200	0.022	18.2
16260	0.018	17.86666667
16320	0.017	17.53333333
16380	0.023	17.93333333
16440	0.017	17.93333333
16500	0.016	17.86666667
16560	0.017	17.66666667
16620	0.021	17.86666667
16680	0.017	17.86666667
16740	0.017	17.8
16800	0.016	17.8
16860	0.016	17.73333333
16920	0.016	17.66666667
16980	0.016	17.66666667
17040	0.015	17.6
17100	0.017	17.26666667
17160	0.016	17.13333333
17220	0.015	17
17280	0.017	16.6
17340	0.016	16.53333333
17400	0.016	16.53333333
17460	0.015	16.4
17520	0.015	16
17580	0.015	15.86666667
17640	0.015	15.73333333
17700	0.018	15.86666667
17760	0.015	15.8
17820	0.015	15.73333333
17880	0.016	15.73333333
17940	0.015	15.73333333
18000	0.016	15.66666667
18060	0.015	15.6
18120	0.017	15.73333333
18180	0.015	15.6
18240	0.017	15.66666667
18300	0.015	15.6
18360	0.015	15.6
18420	0.014	15.53333333
18480	0.015	15.53333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_068
Test Start Time	8:09:13 AM
Test Start Date	9/21/2020
Test Length [D:H:M]	0:06:05
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.017
Mass Minimum [mg/m3]	0.01
Mass Maximum [mg/m3]	0.101
Mass TWA [mg/m3]	0.013
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	365

Max Instant Conc.	Max 15 min TWA Conc.
101	34.46666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.012			
120	0.014			
180	0.012			
240	0.011			
300	0.011			
360	0.012			
420	0.011			
480	0.012			
540	0.029			
600	0.019			
660	0.018			
720	0.012			
780	0.015			
840	0.012			
900	0.013			14.2
960	0.021			14.8
1020	0.012			14.66666667
1080	0.011			14.6
1140	0.012			14.66666667
1200	0.012			14.73333333
1260	0.011			14.66666667
1320	0.011			14.66666667
1380	0.011			14.6
1440	0.012			13.46666667
1500	0.012			13
1560	0.012			12.6
1620	0.012			12.6

1680	0.012	12.4
1740	0.012	12.4
1800	0.012	12.33333333
1860	0.012	11.73333333
1920	0.021	12.33333333
1980	0.012	12.4
2040	0.012	12.4
2100	0.013	12.46666667
2160	0.012	12.53333333
2220	0.012	12.6
2280	0.053	15.4
2340	0.014	15.53333333
2400	0.015	15.73333333
2460	0.018	16.13333333
2520	0.014	16.26666667
2580	0.014	16.4
2640	0.019	16.86666667
2700	0.014	17
2760	0.012	17
2820	0.014	16.53333333
2880	0.014	16.66666667
2940	0.015	16.86666667
3000	0.014	16.93333333
3060	0.015	17.13333333
3120	0.014	17.26666667
3180	0.012	14.53333333
3240	0.012	14.4
3300	0.011	14.13333333
3360	0.011	13.66666667
3420	0.016	13.8
3480	0.027	14.66666667
3540	0.011	14.13333333
3600	0.014	14.13333333
3660	0.016	14.4
3720	0.016	14.53333333
3780	0.018	14.8
3840	0.012	14.6
3900	0.014	14.6
3960	0.012	14.4
4020	0.012	14.26666667
4080	0.013	14.33333333
4140	0.014	14.46666667
4200	0.012	14.53333333
4260	0.012	14.6
4320	0.011	14.26666667
4380	0.011	13.2
4440	0.021	13.86666667

4500	0.016	14
4560	0.065	17.26666667
4620	0.029	18.13333333
4680	0.044	19.86666667
4740	0.035	21.4
4800	0.052	23.93333333
4860	0.045	26.13333333
4920	0.025	27
4980	0.039	28.73333333
5040	0.021	29.2
5100	0.029	30.33333333
5160	0.026	31.26666667
5220	0.029	32.46666667
5280	0.033	33.93333333
5340	0.029	34.46666667
5400	0.014	34.33333333
5460	0.013	30.86666667
5520	0.019	30.2
5580	0.036	29.66666667
5640	0.032	29.46666667
5700	0.026	27.73333333
5760	0.015	25.73333333
5820	0.019	25.33333333
5880	0.026	24.46666667
5940	0.026	24.8
6000	0.021	24.26666667
6060	0.022	24
6120	0.023	23.6
6180	0.013	22.26666667
6240	0.017	21.46666667
6300	0.018	21.73333333
6360	0.031	22.93333333
6420	0.021	23.06666667
6480	0.022	22.13333333
6540	0.013	20.86666667
6600	0.012	19.93333333
6660	0.011	19.66666667
6720	0.011	19.13333333
6780	0.02	18.73333333
6840	0.022	18.46666667
6900	0.015	18.06666667
6960	0.012	17.4
7020	0.012	16.66666667
7080	0.012	16.6
7140	0.014	16.4
7200	0.011	15.93333333
7260	0.012	14.66666667

7320	0.013	14.13333333
7380	0.014	13.6
7440	0.018	13.93333333
7500	0.013	14
7560	0.012	14.06666667
7620	0.012	14.13333333
7680	0.012	13.6
7740	0.012	12.93333333
7800	0.031	14
7860	0.014	14.13333333
7920	0.016	14.4
7980	0.013	14.46666667
8040	0.015	14.53333333
8100	0.018	15
8160	0.011	14.93333333
8220	0.014	15
8280	0.015	15.06666667
8340	0.013	14.73333333
8400	0.017	15
8460	0.017	15.33333333
8520	0.027	16.33333333
8580	0.012	16.33333333
8640	0.013	16.4
8700	0.012	15.13333333
8760	0.012	15
8820	0.014	14.86666667
8880	0.018	15.2
8940	0.021	15.6
9000	0.013	15.26666667
9060	0.021	15.93333333
9120	0.021	16.4
9180	0.012	16.2
9240	0.016	16.4
9300	0.016	16.33333333
9360	0.012	16
9420	0.015	15.2
9480	0.012	15.2
9540	0.012	15.13333333
9600	0.012	15.13333333
9660	0.013	15.2
9720	0.02	15.6
9780	0.015	15.4
9840	0.016	15.06666667
9900	0.019	15.46666667
9960	0.039	16.66666667
10020	0.019	16.53333333
10080	0.014	16.66666667

10140	0.016	16.66666667
10200	0.016	16.66666667
10260	0.02	17.2
10320	0.013	17.06666667
10380	0.012	17.06666667
10440	0.012	17.06666667
10500	0.014	17.2
10560	0.011	17.06666667
10620	0.011	16.46666667
10680	0.015	16.46666667
10740	0.02	16.73333333
10800	0.017	16.6
10860	0.019	15.26666667
10920	0.016	15.06666667
10980	0.017	15.26666667
11040	0.021	15.6
11100	0.024	16.13333333
11160	0.014	15.73333333
11220	0.015	15.86666667
11280	0.03	17.06666667
11340	0.043	19.13333333
11400	0.021	19.6
11460	0.015	19.86666667
11520	0.021	20.53333333
11580	0.023	21.06666667
11640	0.012	20.53333333
11700	0.011	20.13333333
11760	0.012	19.66666667
11820	0.013	19.46666667
11880	0.014	19.26666667
11940	0.02	19.2
12000	0.011	18.33333333
12060	0.012	18.2
12120	0.017	18.33333333
12180	0.01	17
12240	0.023	15.66666667
12300	0.016	15.33333333
12360	0.025	16
12420	0.014	15.53333333
12480	0.01	14.66666667
12540	0.017	15
12600	0.019	15.53333333
12660	0.018	15.93333333
12720	0.015	16.06666667
12780	0.015	16.13333333
12840	0.021	16.2
12900	0.021	16.86666667

12960	0.01	16.73333333
13020	0.011	16.33333333
13080	0.022	17.13333333
13140	0.01	16.26666667
13200	0.011	15.93333333
13260	0.013	15.13333333
13320	0.011	14.93333333
13380	0.02	15.6
13440	0.033	16.66666667
13500	0.06	19.4
13560	0.01	18.86666667
13620	0.011	18.6
13680	0.02	18.93333333
13740	0.01	18.2
13800	0.012	17.6
13860	0.022	18.4
13920	0.039	20.26666667
13980	0.026	20.53333333
14040	0.012	20.66666667
14100	0.015	20.93333333
14160	0.019	21.33333333
14220	0.015	21.6
14280	0.021	21.66666667
14340	0.02	20.8
14400	0.025	18.46666667
14460	0.02	19.13333333
14520	0.031	20.46666667
14580	0.017	20.26666667
14640	0.02	20.93333333
14700	0.015	21.13333333
14760	0.018	20.86666667
14820	0.017	19.4
14880	0.012	18.46666667
14940	0.021	19.06666667
15000	0.011	18.8
15060	0.019	18.8
15120	0.024	19.4
15180	0.022	19.46666667
15240	0.015	19.13333333
15300	0.016	18.53333333
15360	0.014	18.13333333
15420	0.011	16.8
15480	0.012	16.46666667
15540	0.012	15.93333333
15600	0.011	15.66666667
15660	0.011	15.2
15720	0.011	14.8

15780	0.011	14.73333333
15840	0.011	14.06666667
15900	0.013	14.2
15960	0.012	13.73333333
16020	0.011	12.86666667
16080	0.013	12.26666667
16140	0.029	13.2
16200	0.018	13.33333333
16260	0.018	13.6
16320	0.019	14.13333333
16380	0.019	14.6
16440	0.014	14.73333333
16500	0.023	15.53333333
16560	0.02	16.13333333
16620	0.012	16.2
16680	0.012	16.26666667
16740	0.012	16.33333333
16800	0.012	16.26666667
16860	0.018	16.66666667
16920	0.018	17.13333333
16980	0.013	17.13333333
17040	0.018	16.4
17100	0.022	16.66666667
17160	0.017	16.6
17220	0.021	16.73333333
17280	0.017	16.6
17340	0.017	16.8
17400	0.014	16.2
17460	0.046	17.93333333
17520	0.013	18
17580	0.012	18
17640	0.019	18.46666667
17700	0.023	19.2
17760	0.026	19.73333333
17820	0.018	19.73333333
17880	0.016	19.93333333
17940	0.03	20.73333333
18000	0.018	20.46666667
18060	0.023	20.86666667
18120	0.013	20.33333333
18180	0.014	20.13333333
18240	0.017	20.13333333
18300	0.011	19.93333333
18360	0.011	17.6
18420	0.011	17.46666667
18480	0.012	17.46666667
18540	0.012	17

18600	0.012	16.26666667
18660	0.015	15.53333333
18720	0.031	16.4
18780	0.02	16.66666667
18840	0.013	15.53333333
18900	0.012	15.13333333
18960	0.013	14.46666667
19020	0.014	14.53333333
19080	0.017	14.73333333
19140	0.014	14.53333333
19200	0.016	14.86666667
19260	0.015	15.13333333
19320	0.012	15.2
19380	0.014	15.33333333
19440	0.012	15.33333333
19500	0.013	15.4
19560	0.023	15.93333333
19620	0.012	14.66666667
19680	0.036	15.73333333
19740	0.101	21.6
19800	0.012	21.6
19860	0.023	22.26666667
19920	0.023	22.86666667
19980	0.013	22.6
20040	0.012	22.46666667
20100	0.011	22.13333333
20160	0.011	21.86666667
20220	0.014	22
20280	0.015	22.06666667
20340	0.014	22.2
20400	0.018	22.53333333
20460	0.013	21.86666667
20520	0.012	21.86666667
20580	0.012	20.26666667
20640	0.011	14.26666667
20700	0.014	14.4
20760	0.021	14.26666667
20820	0.068	17.26666667
20880	0.042	19.2
20940	0.012	19.2
21000	0.012	19.26666667
21060	0.011	19.26666667
21120	0.014	19.26666667
21180	0.011	19
21240	0.012	18.86666667
21300	0.016	18.73333333
21360	0.014	18.8

21420	0.016	19.06666667
21480	0.014	19.2
21540	0.015	19.46666667
21600	0.011	19.26666667
21660	0.012	18.66666667
21720	0.011	14.86666667
21780	0.013	12.93333333
21840	0.012	12.93333333
21900	0.016	13.2

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_069
Test Start Time	6:53:43 AM
Test Start Date	9/22/2020
Test Length [D:H:M]	0:06:54
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.016
Mass Minimum [mg/m3]	0.009
Mass Maximum [mg/m3]	0.284
Mass TWA [mg/m3]	0.014
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	414

Max Instant Conc.	Max 15 min TWA Conc.
284	40.4

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.015			
120	0.054			
180	0.019			
240	0.013			
300	0.013			
360	0.012			
420	0.013			
480	0.012			
540	0.013			
600	0.013			
660	0.013			
720	0.014			
780	0.013			
840	0.012			
900	0.013			16.13333333
960	0.013			16
1020	0.013			13.26666667
1080	0.015			13
1140	0.014			13.06666667
1200	0.012			13
1260	0.012			13
1320	0.012			12.93333333
1380	0.013			13
1440	0.012			12.93333333
1500	0.013			12.93333333
1560	0.014			13
1620	0.016			13.13333333

1680	0.014	13.2
1740	0.015	13.4
1800	0.015	13.53333333
1860	0.014	13.6
1920	0.013	13.6
1980	0.013	13.46666667
2040	0.017	13.66666667
2100	0.014	13.8
2160	0.013	13.86666667
2220	0.019	14.33333333
2280	0.025	15.13333333
2340	0.015	15.33333333
2400	0.013	15.33333333
2460	0.013	15.26666667
2520	0.012	15
2580	0.012	14.86666667
2640	0.013	14.73333333
2700	0.014	14.66666667
2760	0.013	14.6
2820	0.014	14.66666667
2880	0.016	14.86666667
2940	0.015	14.73333333
3000	0.014	14.73333333
3060	0.013	14.73333333
3120	0.012	14.26666667
3180	0.012	13.4
3240	0.012	13.2
3300	0.012	13.13333333
3360	0.012	13.06666667
3420	0.012	13.06666667
3480	0.012	13.06666667
3540	0.012	13
3600	0.012	12.86666667
3660	0.012	12.8
3720	0.013	12.73333333
3780	0.014	12.6
3840	0.014	12.53333333
3900	0.014	12.53333333
3960	0.014	12.6
4020	0.014	12.73333333
4080	0.014	12.86666667
4140	0.014	13
4200	0.014	13.13333333
4260	0.014	13.26666667
4320	0.014	13.4
4380	0.016	13.66666667
4440	0.015	13.86666667

4500	0.017	14.2
4560	0.018	14.6
4620	0.018	14.93333333
4680	0.018	15.2
4740	0.018	15.46666667
4800	0.018	15.73333333
4860	0.017	15.93333333
4920	0.017	16.13333333
4980	0.018	16.4
5040	0.017	16.6
5100	0.017	16.8
5160	0.017	17
5220	0.017	17.2
5280	0.018	17.33333333
5340	0.019	17.6
5400	0.019	17.73333333
5460	0.021	17.93333333
5520	0.014	17.66666667
5580	0.014	17.4
5640	0.016	17.26666667
5700	0.016	17.13333333
5760	0.016	17.06666667
5820	0.016	17
5880	0.015	16.8
5940	0.016	16.73333333
6000	0.015	16.6
6060	0.016	16.53333333
6120	0.016	16.46666667
6180	0.016	16.33333333
6240	0.015	16.06666667
6300	0.015	15.8
6360	0.014	15.33333333
6420	0.014	15.33333333
6480	0.013	15.26666667
6540	0.013	15.06666667
6600	0.014	14.93333333
6660	0.013	14.73333333
6720	0.014	14.6
6780	0.014	14.53333333
6840	0.015	14.46666667
6900	0.015	14.46666667
6960	0.015	14.4
7020	0.015	14.33333333
7080	0.015	14.26666667
7140	0.016	14.33333333
7200	0.016	14.4
7260	0.019	14.73333333

7320	0.017	14.93333333
7380	0.015	15.06666667
7440	0.015	15.2
7500	0.014	15.2
7560	0.014	15.26666667
7620	0.014	15.26666667
7680	0.014	15.26666667
7740	0.014	15.2
7800	0.013	15.06666667
7860	0.013	14.93333333
7920	0.014	14.86666667
7980	0.032	16
8040	0.022	16.4
8100	0.016	16.4
8160	0.015	16.13333333
8220	0.014	15.93333333
8280	0.014	15.86666667
8340	0.014	15.8
8400	0.014	15.8
8460	0.013	15.73333333
8520	0.025	16.46666667
8580	0.015	16.53333333
8640	0.017	16.73333333
8700	0.014	16.8
8760	0.017	17.06666667
8820	0.013	17
8880	0.013	15.73333333
8940	0.011	15
9000	0.01	14.6
9060	0.011	14.33333333
9120	0.011	14.13333333
9180	0.011	13.93333333
9240	0.014	13.93333333
9300	0.071	17.73333333
9360	0.012	17.66666667
9420	0.012	16.8
9480	0.011	16.53333333
9540	0.012	16.2
9600	0.012	16.06666667
9660	0.012	15.73333333
9720	0.011	15.6
9780	0.011	15.46666667
9840	0.011	15.46666667
9900	0.011	15.53333333
9960	0.013	15.66666667
10020	0.015	15.93333333
10080	0.01	15.86666667

10140	0.009	15.53333333
10200	0.009	11.4
10260	0.009	11.2
10320	0.01	11.06666667
10380	0.021	11.73333333
10440	0.03	12.93333333
10500	0.01	12.8
10560	0.009	12.6
10620	0.009	12.46666667
10680	0.009	12.33333333
10740	0.009	12.2
10800	0.009	12.06666667
10860	0.009	11.8
10920	0.01	11.46666667
10980	0.013	11.66666667
11040	0.01	11.73333333
11100	0.011	11.86666667
11160	0.009	11.86666667
11220	0.01	11.86666667
11280	0.011	11.2
11340	0.011	9.933333333
11400	0.012	10.06666667
11460	0.011	10.2
11520	0.01	10.26666667
11580	0.01	10.33333333
11640	0.01	10.4
11700	0.015	10.8
11760	0.013	11.06666667
11820	0.013	11.26666667
11880	0.012	11.2
11940	0.013	11.4
12000	0.011	11.4
12060	0.012	11.6
12120	0.012	11.73333333
12180	0.012	11.8
12240	0.013	11.93333333
12300	0.014	12.06666667
12360	0.011	12.06666667
12420	0.013	12.26666667
12480	0.013	12.46666667
12540	0.011	12.53333333
12600	0.011	12.26666667
12660	0.012	12.2
12720	0.01	12
12780	0.01	11.86666667
12840	0.012	11.8
12900	0.01	11.73333333

12960	0.013	11.8
13020	0.01	11.66666667
13080	0.011	11.6
13140	0.013	11.6
13200	0.011	11.4
13260	0.012	11.46666667
13320	0.015	11.6
13380	0.011	11.46666667
13440	0.011	11.46666667
13500	0.011	11.46666667
13560	0.011	11.4
13620	0.011	11.46666667
13680	0.012	11.6
13740	0.011	11.53333333
13800	0.012	11.66666667
13860	0.011	11.53333333
13920	0.011	11.6
13980	0.011	11.6
14040	0.01	11.4
14100	0.011	11.4
14160	0.01	11.26666667
14220	0.01	10.93333333
14280	0.011	10.93333333
14340	0.012	11
14400	0.01	10.93333333
14460	0.011	10.93333333
14520	0.011	10.93333333
14580	0.01	10.8
14640	0.012	10.86666667
14700	0.011	10.8
14760	0.012	10.86666667
14820	0.012	10.93333333
14880	0.013	11.06666667
14940	0.011	11.13333333
15000	0.01	11.06666667
15060	0.011	11.13333333
15120	0.011	11.2
15180	0.013	11.33333333
15240	0.011	11.26666667
15300	0.016	11.66666667
15360	0.012	11.73333333
15420	0.011	11.73333333
15480	0.011	11.8
15540	0.013	11.86666667
15600	0.013	12
15660	0.011	11.93333333
15720	0.01	11.8

15780	0.013	11.8
15840	0.011	11.8
15900	0.011	11.86666667
15960	0.014	12.06666667
16020	0.012	12.13333333
16080	0.01	11.93333333
16140	0.012	12
16200	0.016	12
16260	0.011	11.93333333
16320	0.011	11.93333333
16380	0.023	12.73333333
16440	0.017	13
16500	0.01	12.8
16560	0.017	13.2
16620	0.013	13.4
16680	0.012	13.33333333
16740	0.01	13.26666667
16800	0.01	13.2
16860	0.01	12.93333333
16920	0.01	12.8
16980	0.01	12.8
17040	0.01	12.66666667
17100	0.011	12.33333333
17160	0.014	12.53333333
17220	0.012	12.6
17280	0.011	11.8
17340	0.01	11.33333333
17400	0.01	11.33333333
17460	0.013	11.06666667
17520	0.012	11
17580	0.01	10.86666667
17640	0.013	11.06666667
17700	0.01	11.06666667
17760	0.015	11.4
17820	0.012	11.53333333
17880	0.011	11.6
17940	0.013	11.8
18000	0.021	12.46666667
18060	0.012	12.33333333
18120	0.011	12.26666667
18180	0.021	12.93333333
18240	0.284	31.2
18300	0.065	34.86666667
18360	0.011	34.73333333
18420	0.01	34.6
18480	0.026	35.66666667
18540	0.017	35.93333333

18600	0.015	36.26666667
18660	0.01	35.93333333
18720	0.022	36.6
18780	0.03	37.86666667
18840	0.017	38.13333333
18900	0.033	38.93333333
18960	0.012	38.93333333
19020	0.033	40.4
19080	0.014	39.93333333
19140	0.013	21.86666667
19200	0.023	19.06666667
19260	0.012	19.13333333
19320	0.014	19.4
19380	0.012	18.46666667
19440	0.011	18.06666667
19500	0.012	17.86666667
19560	0.011	17.93333333
19620	0.012	17.26666667
19680	0.012	16.06666667
19740	0.013	15.8
19800	0.012	14.4
19860	0.012	14.4
19920	0.011	12.93333333
19980	0.013	12.86666667
20040	0.011	12.73333333
20100	0.012	12
20160	0.012	12
20220	0.012	11.86666667
20280	0.011	11.8
20340	0.012	11.86666667
20400	0.011	11.8
20460	0.011	11.8
20520	0.011	11.73333333
20580	0.011	11.66666667
20640	0.011	11.53333333
20700	0.011	11.46666667
20760	0.012	11.46666667
20820	0.012	11.53333333
20880	0.012	11.46666667
20940	0.015	11.73333333
21000	0.014	11.86666667
21060	0.012	11.86666667
21120	0.013	11.93333333
21180	0.016	12.26666667
21240	0.014	12.4
21300	0.013	12.53333333
21360	0.014	12.73333333

21420	0.012	12.8
21480	0.014	13
21540	0.013	13.13333333
21600	0.013	13.26666667
21660	0.014	13.4
21720	0.012	13.4
21780	0.015	13.6
21840	0.013	13.46666667
21900	0.012	13.33333333
21960	0.014	13.46666667
22020	0.015	13.6
22080	0.013	13.4
22140	0.022	13.93333333
22200	0.022	14.53333333
22260	0.012	14.4
22320	0.013	14.46666667
22380	0.026	15.26666667
22440	0.021	15.8
22500	0.018	16.13333333
22560	0.068	19.73333333
22620	0.081	24.33333333
22680	0.025	25
22740	0.074	29.06666667
22800	0.015	29.26666667
22860	0.015	29.33333333
22920	0.027	30.13333333
22980	0.015	30.26666667
23040	0.017	29.93333333
23100	0.019	29.73333333
23160	0.015	29.93333333
23220	0.015	30.06666667
23280	0.015	29.33333333
23340	0.013	28.8
23400	0.015	28.6
23460	0.015	25.06666667
23520	0.012	20.46666667
23580	0.012	19.6
23640	0.024	16.26666667
23700	0.096	21.66666667
23760	0.024	22.26666667
23820	0.038	23
23880	0.035	24.33333333
23940	0.058	27.06666667
24000	0.059	29.73333333
24060	0.037	31.2
24120	0.06	34.2
24180	0.028	35.06666667

24240	0.014	35.13333333
24300	0.015	35.13333333
24360	0.012	34.93333333
24420	0.011	34.86666667
24480	0.012	34.86666667
24540	0.011	34
24600	0.021	29
24660	0.014	28.33333333
24720	0.011	26.53333333
24780	0.011	24.93333333
24840	0.012	21.86666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_070
Test Start Time	6:26:56 AM
Test Start Date	9/24/2020
Test Length [D:H:M]	0:11:00
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.034
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.077
Mass TWA [mg/m3]	0.025
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	350

Max Instant Conc.	Max 15 min TWA Conc.
77	42.53333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.028			
120	0.03			
180	0.031			
240	0.032			
300	0.031			
360	0.031			
420	0.031			
480	0.032			
540	0.032			
600	0.032			
660	0.032			
720	0.032			
780	0.032			
840	0.032			
900	0.032			31.33333333
960	0.032			31.6
1020	0.034			31.86666667
1080	0.034			32.06666667
1140	0.038			32.46666667
1200	0.042			33.2
1260	0.042			33.93333333
1320	0.038			34.4
1380	0.038			34.8
1440	0.037			35.13333333
1500	0.037			35.46666667
1560	0.034			35.6
1620	0.035			35.8

1680	0.034	35.93333333
1740	0.036	36.2
1800	0.036	36.46666667
1860	0.037	36.8
1920	0.034	36.8
1980	0.034	36.8
2040	0.033	36.46666667
2100	0.033	35.86666667
2160	0.034	35.33333333
2220	0.034	35.06666667
2280	0.034	34.8
2340	0.035	34.66666667
2400	0.035	34.53333333
2460	0.034	34.53333333
2520	0.033	34.4
2580	0.033	34.33333333
2640	0.032	34.06666667
2700	0.032	33.8
2760	0.032	33.46666667
2820	0.031	33.26666667
2880	0.032	33.13333333
2940	0.031	33
3000	0.031	32.86666667
3060	0.031	32.66666667
3120	0.03	32.4
3180	0.03	32.13333333
3240	0.03	31.8
3300	0.031	31.53333333
3360	0.033	31.46666667
3420	0.031	31.33333333
3480	0.031	31.2
3540	0.033	31.26666667
3600	0.032	31.26666667
3660	0.032	31.26666667
3720	0.033	31.4
3780	0.034	31.53333333
3840	0.034	31.73333333
3900	0.035	32
3960	0.035	32.26666667
4020	0.034	32.53333333
4080	0.034	32.8
4140	0.034	33.06666667
4200	0.039	33.6
4260	0.038	33.93333333
4320	0.039	34.46666667
4380	0.039	35
4440	0.038	35.33333333

4500	0.039	35.8
4560	0.041	36.4
4620	0.044	37.13333333
4680	0.049	38.13333333
4740	0.046	38.93333333
4800	0.043	39.46666667
4860	0.045	40.13333333
4920	0.044	40.8
4980	0.043	41.4
5040	0.046	42.2
5100	0.042	42.4
5160	0.04	42.53333333
5220	0.039	42.53333333
5280	0.038	42.46666667
5340	0.036	42.33333333
5400	0.037	42.2
5460	0.037	41.93333333
5520	0.038	41.53333333
5580	0.037	40.73333333
5640	0.038	40.2
5700	0.037	39.8
5760	0.037	39.26666667
5820	0.037	38.8
5880	0.036	38.33333333
5940	0.037	37.73333333
6000	0.036	37.33333333
6060	0.036	37.06666667
6120	0.036	36.86666667
6180	0.036	36.73333333
6240	0.035	36.66666667
6300	0.034	36.46666667
6360	0.034	36.26666667
6420	0.034	36
6480	0.033	35.73333333
6540	0.034	35.46666667
6600	0.033	35.2
6660	0.033	34.93333333
6720	0.034	34.73333333
6780	0.034	34.6
6840	0.035	34.46666667
6900	0.035	34.4
6960	0.035	34.33333333
7020	0.036	34.33333333
7080	0.035	34.26666667
7140	0.035	34.26666667
7200	0.035	34.33333333
7260	0.034	34.33333333

7320	0.034	34.33333333
7380	0.033	34.33333333
7440	0.034	34.33333333
7500	0.034	34.4
7560	0.033	34.4
7620	0.033	34.33333333
7680	0.034	34.33333333
7740	0.034	34.26666667
7800	0.032	34.06666667
7860	0.034	34
7920	0.035	33.93333333
7980	0.034	33.86666667
8040	0.034	33.8
8100	0.034	33.73333333
8160	0.034	33.73333333
8220	0.034	33.73333333
8280	0.035	33.86666667
8340	0.033	33.8
8400	0.033	33.73333333
8460	0.035	33.86666667
8520	0.033	33.86666667
8580	0.033	33.8
8640	0.033	33.73333333
8700	0.033	33.8
8760	0.033	33.73333333
8820	0.033	33.6
8880	0.033	33.53333333
8940	0.033	33.46666667
9000	0.033	33.4
9060	0.033	33.33333333
9120	0.034	33.33333333
9180	0.034	33.26666667
9240	0.034	33.33333333
9300	0.034	33.4
9360	0.034	33.33333333
9420	0.034	33.4
9480	0.033	33.4
9540	0.033	33.4
9600	0.034	33.46666667
9660	0.034	33.53333333
9720	0.033	33.53333333
9780	0.033	33.53333333
9840	0.034	33.6
9900	0.034	33.66666667
9960	0.034	33.73333333
10020	0.034	33.73333333
10080	0.035	33.8

10140	0.034	33.8
10200	0.035	33.86666667
10260	0.034	33.86666667
10320	0.034	33.86666667
10380	0.033	33.86666667
10440	0.033	33.86666667
10500	0.033	33.8
10560	0.033	33.73333333
10620	0.033	33.73333333
10680	0.033	33.73333333
10740	0.033	33.66666667
10800	0.033	33.6
10860	0.034	33.6
10920	0.033	33.53333333
10980	0.034	33.46666667
11040	0.033	33.4
11100	0.033	33.26666667
11160	0.033	33.2
11220	0.033	33.13333333
11280	0.032	33.06666667
11340	0.033	33.06666667
11400	0.032	33
11460	0.034	33.06666667
11520	0.032	33
11580	0.032	32.93333333
11640	0.032	32.86666667
11700	0.033	32.86666667
11760	0.033	32.8
11820	0.033	32.8
11880	0.033	32.73333333
11940	0.032	32.66666667
12000	0.032	32.6
12060	0.032	32.53333333
12120	0.033	32.53333333
12180	0.034	32.66666667
12240	0.035	32.8
12300	0.032	32.8
12360	0.032	32.66666667
12420	0.032	32.66666667
12480	0.033	32.73333333
12540	0.033	32.8
12600	0.033	32.8
12660	0.033	32.8
12720	0.033	32.8
12780	0.034	32.86666667
12840	0.033	32.93333333
12900	0.033	33

12960	0.033	33.06666667
13020	0.033	33.06666667
13080	0.033	33
13140	0.033	32.86666667
13200	0.033	32.93333333
13260	0.033	33
13320	0.033	33.06666667
13380	0.033	33.06666667
13440	0.034	33.13333333
13500	0.035	33.26666667
13560	0.034	33.33333333
13620	0.034	33.4
13680	0.034	33.4
13740	0.048	34.4
13800	0.035	34.53333333
13860	0.075	37.33333333
13920	0.035	37.46666667
13980	0.034	37.53333333
14040	0.033	37.53333333
14100	0.033	37.53333333
14160	0.034	37.6
14220	0.035	37.73333333
14280	0.035	37.86666667
14340	0.033	37.8
14400	0.033	37.66666667
14460	0.033	37.6
14520	0.034	37.6
14580	0.034	37.6
14640	0.034	36.66666667
14700	0.034	36.6
14760	0.033	33.8
14820	0.034	33.73333333
14880	0.034	33.73333333
14940	0.034	33.8
15000	0.034	33.86666667
15060	0.034	33.86666667
15120	0.034	33.8
15180	0.034	33.73333333
15240	0.034	33.8
15300	0.034	33.86666667
15360	0.035	34
15420	0.034	34
15480	0.034	34
15540	0.035	34.06666667
15600	0.035	34.13333333
15660	0.034	34.2
15720	0.034	34.2

15780	0.034	34.2
15840	0.033	34.13333333
15900	0.033	34.06666667
15960	0.033	34
16020	0.033	33.93333333
16080	0.033	33.86666667
16140	0.033	33.8
16200	0.034	33.8
16260	0.034	33.73333333
16320	0.033	33.66666667
16380	0.033	33.6
16440	0.033	33.46666667
16500	0.038	33.66666667
16560	0.039	34
16620	0.035	34.06666667
16680	0.037	34.26666667
16740	0.033	34.26666667
16800	0.033	34.26666667
16860	0.032	34.2
16920	0.032	34.13333333
16980	0.033	34.13333333
17040	0.032	34.06666667
17100	0.033	34
17160	0.039	34.33333333
17220	0.032	34.26666667
17280	0.032	34.2
17340	0.033	34.2
17400	0.033	33.86666667
17460	0.032	33.4
17520	0.032	33.2
17580	0.032	32.86666667
17640	0.032	32.8
17700	0.032	32.73333333
17760	0.031	32.66666667
17820	0.031	32.6
17880	0.033	32.6
17940	0.033	32.66666667
18000	0.031	32.53333333
18060	0.031	32
18120	0.031	31.93333333
18180	0.031	31.86666667
18240	0.031	31.73333333
18300	0.031	31.6
18360	0.031	31.53333333
18420	0.031	31.46666667
18480	0.03	31.33333333
18540	0.031	31.26666667

18600	0.031	31.2
18660	0.031	31.2
18720	0.031	31.2
18780	0.031	31.06666667
18840	0.031	30.93333333
18900	0.03	30.86666667
18960	0.031	30.86666667
19020	0.031	30.86666667
19080	0.031	30.86666667
19140	0.032	30.93333333
19200	0.032	31
19260	0.031	31
19320	0.032	31.06666667
19380	0.032	31.2
19440	0.031	31.2
19500	0.033	31.33333333
19560	0.032	31.4
19620	0.032	31.46666667
19680	0.031	31.46666667
19740	0.031	31.46666667
19800	0.033	31.66666667
19860	0.033	31.8
19920	0.031	31.8
19980	0.031	31.8
20040	0.031	31.73333333
20100	0.032	31.73333333
20160	0.031	31.73333333
20220	0.039	32.2
20280	0.036	32.46666667
20340	0.031	32.46666667
20400	0.032	32.4
20460	0.031	32.33333333
20520	0.033	32.4
20580	0.033	32.53333333
20640	0.077	35.6
20700	0.033	35.6
20760	0.031	35.46666667
20820	0.032	35.53333333
20880	0.043	36.33333333
20940	0.037	36.73333333
39608	0	34.6

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_071
Test Start Time	7:34:15 AM
Test Start Date	9/29/2020
Test Length [D:H:M]	0:07:11
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.017
Mass Maximum [mg/m3]	0.107
Mass TWA [mg/m3]	0.02
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	431

Max Instant Conc.	Max 15 min TWA Conc.
107	30.13333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.058			
120	0.023			
180	0.023			
240	0.022			
300	0.021			
360	0.022			
420	0.021			
480	0.021			
540	0.021			
600	0.021			
660	0.021			
720	0.021			
780	0.02			
840	0.02			
900	0.02			23.66666667
960	0.02			21.13333333
1020	0.02			20.93333333
1080	0.02			20.73333333
1140	0.02			20.6
1200	0.02			20.53333333
1260	0.02			20.4
1320	0.02			20.33333333
1380	0.02			20.26666667
1440	0.019			20.13333333
1500	0.019			20
1560	0.026			20.33333333
1620	0.022			20.4

1680	0.019	20.33333333
1740	0.019	20.26666667
1800	0.018	20.13333333
1860	0.018	20
1920	0.018	19.86666667
1980	0.018	19.73333333
2040	0.019	19.66666667
2100	0.019	19.6
2160	0.019	19.53333333
2220	0.018	19.4
2280	0.018	19.26666667
2340	0.018	19.2
2400	0.017	19.06666667
2460	0.017	18.46666667
2520	0.017	18.13333333
2580	0.017	18
2640	0.019	18
2700	0.021	18.2
2760	0.018	18.2
2820	0.023	18.53333333
2880	0.02	18.66666667
2940	0.018	18.6
3000	0.018	18.53333333
3060	0.018	18.46666667
3120	0.018	18.46666667
3180	0.018	18.46666667
3240	0.03	19.26666667
3300	0.025	19.8
3360	0.017	19.8
3420	0.018	19.86666667
3480	0.018	19.93333333
3540	0.017	19.8
3600	0.018	19.6
3660	0.033	20.6
3720	0.018	20.26666667
3780	0.017	20.06666667
3840	0.019	20.13333333
3900	0.019	20.2
3960	0.018	20.2
4020	0.017	20.13333333
4080	0.017	20.06666667
4140	0.017	19.2
4200	0.018	18.73333333
4260	0.018	18.8
4320	0.017	18.73333333
4380	0.018	18.73333333
4440	0.017	18.73333333

4500	0.018	18.73333333
4560	0.03	18.53333333
4620	0.025	19
4680	0.019	19.13333333
4740	0.025	19.53333333
4800	0.034	20.53333333
4860	0.019	20.6
4920	0.018	20.66666667
4980	0.018	20.73333333
5040	0.018	20.8
5100	0.018	20.8
5160	0.018	20.8
5220	0.017	20.8
5280	0.017	20.73333333
5340	0.031	21.66666667
5400	0.018	21.66666667
5460	0.017	20.8
5520	0.018	20.33333333
5580	0.018	20.26666667
5640	0.018	19.8
5700	0.018	18.73333333
5760	0.018	18.66666667
5820	0.018	18.66666667
5880	0.018	18.66666667
5940	0.018	18.66666667
6000	0.018	18.66666667
6060	0.018	18.66666667
6120	0.022	19
6180	0.023	19.4
6240	0.018	18.53333333
6300	0.018	18.53333333
6360	0.018	18.6
6420	0.018	18.6
6480	0.02	18.73333333
6540	0.019	18.8
6600	0.019	18.86666667
6660	0.018	18.86666667
6720	0.018	18.86666667
6780	0.018	18.86666667
6840	0.019	18.93333333
6900	0.03	19.73333333
6960	0.02	19.86666667
7020	0.02	19.73333333
7080	0.018	19.4
7140	0.018	19.4
7200	0.019	19.46666667
7260	0.019	19.53333333

7320	0.018	19.53333333
7380	0.018	19.4
7440	0.018	19.33333333
7500	0.018	19.26666667
7560	0.019	19.33333333
7620	0.018	19.33333333
7680	0.018	19.33333333
7740	0.019	19.33333333
7800	0.018	18.53333333
7860	0.019	18.46666667
7920	0.019	18.4
7980	0.019	18.46666667
8040	0.019	18.53333333
8100	0.019	18.53333333
8160	0.019	18.53333333
8220	0.019	18.6
8280	0.02	18.73333333
8340	0.019	18.8
8400	0.019	18.86666667
8460	0.019	18.86666667
8520	0.019	18.93333333
8580	0.019	19
8640	0.019	19
8700	0.02	19.13333333
8760	0.019	19.13333333
8820	0.019	19.13333333
8880	0.019	19.13333333
8940	0.019	19.13333333
9000	0.019	19.13333333
9060	0.019	19.13333333
9120	0.019	19.13333333
9180	0.019	19.06666667
9240	0.019	19.06666667
9300	0.019	19.06666667
9360	0.019	19.06666667
9420	0.019	19.06666667
9480	0.019	19.06666667
9540	0.019	19.06666667
9600	0.035	20.06666667
9660	0.033	21
9720	0.02	21.06666667
9780	0.02	21.13333333
9840	0.02	21.2
9900	0.02	21.26666667
9960	0.02	21.33333333
10020	0.02	21.4
10080	0.02	21.46666667

10140	0.02	21.53333333
10200	0.021	21.66666667
10260	0.021	21.8
10320	0.021	21.93333333
10380	0.021	22.06666667
10440	0.021	22.2
10500	0.021	21.26666667
10560	0.021	20.46666667
10620	0.02	20.46666667
10680	0.02	20.46666667
10740	0.02	20.46666667
10800	0.02	20.46666667
10860	0.02	20.46666667
10920	0.02	20.46666667
10980	0.02	20.46666667
11040	0.021	20.53333333
11100	0.021	20.53333333
11160	0.021	20.53333333
11220	0.021	20.53333333
11280	0.03	21.13333333
11340	0.027	21.53333333
11400	0.022	21.6
11460	0.021	21.6
11520	0.021	21.66666667
11580	0.022	21.8
11640	0.022	21.93333333
11700	0.022	22.06666667
11760	0.022	22.2
11820	0.022	22.33333333
11880	0.022	22.46666667
11940	0.022	22.53333333
12000	0.022	22.6
12060	0.022	22.66666667
12120	0.022	22.73333333
12180	0.022	22.2
12240	0.022	21.86666667
12300	0.022	21.86666667
12360	0.025	22.13333333
12420	0.022	22.2
12480	0.022	22.2
12540	0.022	22.2
12600	0.022	22.2
12660	0.022	22.2
12720	0.022	22.2
12780	0.022	22.2
12840	0.023	22.26666667
12900	0.024	22.4

12960	0.023	22.46666667
13020	0.023	22.53333333
13080	0.023	22.6
13140	0.023	22.66666667
13200	0.023	22.73333333
13260	0.023	22.6
13320	0.023	22.66666667
13380	0.023	22.73333333
13440	0.023	22.8
13500	0.023	22.86666667
13560	0.023	22.93333333
13620	0.023	23
13680	0.023	23.06666667
13740	0.023	23.06666667
13800	0.024	23.06666667
13860	0.023	23.06666667
13920	0.023	23.06666667
13980	0.023	23.06666667
14040	0.023	23.06666667
14100	0.023	23.06666667
14160	0.023	23.06666667
14220	0.023	23.06666667
14280	0.023	23.06666667
14340	0.023	23.06666667
14400	0.023	23.06666667
14460	0.023	23.06666667
14520	0.023	23.06666667
14580	0.023	23.06666667
14640	0.023	23.06666667
14700	0.023	23
14760	0.023	23
14820	0.023	23
14880	0.023	23
14940	0.023	23
15000	0.023	23
15060	0.023	23
15120	0.023	23
15180	0.023	23
15240	0.023	23
15300	0.023	23
15360	0.023	23
15420	0.022	22.93333333
15480	0.023	22.93333333
15540	0.025	23.06666667
15600	0.024	23.13333333
15660	0.022	23.06666667
15720	0.022	23

15780	0.022	22.93333333
15840	0.022	22.86666667
15900	0.022	22.8
15960	0.024	22.86666667
16020	0.022	22.8
16080	0.022	22.73333333
16140	0.022	22.66666667
16200	0.023	22.66666667
16260	0.023	22.66666667
16320	0.022	22.66666667
16380	0.022	22.6
16440	0.022	22.4
16500	0.022	22.26666667
16560	0.022	22.26666667
16620	0.022	22.26666667
16680	0.023	22.33333333
16740	0.023	22.4
16800	0.023	22.46666667
16860	0.023	22.4
16920	0.022	22.4
16980	0.022	22.4
17040	0.023	22.46666667
17100	0.023	22.46666667
17160	0.023	22.46666667
17220	0.023	22.53333333
17280	0.023	22.6
17340	0.023	22.66666667
17400	0.023	22.73333333
17460	0.023	22.8
17520	0.023	22.86666667
17580	0.022	22.8
17640	0.022	22.73333333
17700	0.023	22.73333333
17760	0.022	22.66666667
17820	0.022	22.66666667
17880	0.022	22.66666667
17940	0.022	22.6
18000	0.022	22.53333333
18060	0.022	22.46666667
18120	0.022	22.4
18180	0.022	22.33333333
18240	0.022	22.26666667
18300	0.022	22.2
18360	0.022	22.13333333
18420	0.023	22.13333333
18480	0.022	22.13333333
18540	0.022	22.13333333

18600	0.023	22.13333333
18660	0.022	22.13333333
18720	0.022	22.13333333
18780	0.022	22.13333333
18840	0.022	22.13333333
18900	0.022	22.13333333
18960	0.022	22.13333333
19020	0.023	22.2
19080	0.023	22.26666667
19140	0.023	22.33333333
19200	0.023	22.4
19260	0.023	22.46666667
19320	0.023	22.46666667
19380	0.023	22.53333333
19440	0.023	22.6
19500	0.023	22.6
19560	0.023	22.66666667
19620	0.023	22.73333333
19680	0.023	22.8
19740	0.023	22.86666667
19800	0.023	22.93333333
19860	0.023	23
19920	0.023	23
19980	0.023	23
20040	0.023	23
20100	0.023	23
20160	0.023	23
20220	0.023	23
20280	0.023	23
20340	0.023	23
20400	0.023	23
20460	0.023	23
20520	0.024	23.06666667
20580	0.023	23.06666667
20640	0.023	23.06666667
20700	0.023	23.06666667
20760	0.023	23.06666667
20820	0.023	23.06666667
20880	0.023	23.06666667
20940	0.023	23.06666667
21000	0.023	23.06666667
21060	0.023	23.06666667
21120	0.023	23.06666667
21180	0.023	23.06666667
21240	0.023	23.06666667
21300	0.023	23.06666667
21360	0.023	23.06666667

21420	0.023	23
21480	0.107	28.6
21540	0.024	28.66666667
21600	0.028	29
21660	0.026	29.2
21720	0.024	29.26666667
21780	0.024	29.33333333
21840	0.023	29.33333333
21900	0.024	29.4
21960	0.024	29.46666667
22020	0.024	29.53333333
22080	0.024	29.6
22140	0.025	29.73333333
22200	0.025	29.86666667
22260	0.025	30
22320	0.025	30.13333333
22380	0.024	24.6
22440	0.024	24.6
22500	0.027	24.53333333
22560	0.025	24.46666667
22620	0.024	24.46666667
22680	0.026	24.6
22740	0.024	24.66666667
22800	0.024	24.66666667
22860	0.025	24.73333333
22920	0.025	24.8
22980	0.026	24.93333333
23040	0.025	24.93333333
23100	0.025	24.93333333
23160	0.025	24.93333333
23220	0.026	25
23280	0.025	25.06666667
23340	0.024	25.06666667
23400	0.024	24.86666667
23460	0.025	24.86666667
23520	0.024	24.86666667
23580	0.024	24.73333333
23640	0.024	24.73333333
23700	0.024	24.73333333
23760	0.024	24.66666667
23820	0.024	24.6
23880	0.024	24.46666667
23940	0.024	24.4
24000	0.024	24.33333333
24060	0.024	24.26666667
24120	0.026	24.26666667
24180	0.024	24.2

24240	0.023	24.13333333
24300	0.023	24.06666667
24360	0.024	24
24420	0.025	24.06666667
24480	0.023	24
24540	0.023	23.93333333
24600	0.023	23.86666667
24660	0.025	23.93333333
24720	0.023	23.86666667
24780	0.023	23.8
24840	0.023	23.73333333
24900	0.023	23.66666667
24960	0.024	23.66666667
25020	0.023	23.46666667
25080	0.023	23.4
25140	0.023	23.4
25200	0.022	23.33333333
25260	0.022	23.2
25320	0.023	23.06666667
25380	0.03	23.53333333
25440	0.022	23.46666667
25500	0.022	23.4
25560	0.022	23.2
25620	0.022	23.13333333
25680	0.022	23.06666667
25740	0.022	23
25800	0.021	22.86666667
25860	0.021	22.66666667

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_072
Test Start Time	7:04:29 AM
Test Start Date	10/8/2020
Test Length [D:H:M]	0:07:15
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.009
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.082
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	435

Max Instant Conc.	Max 15 min TWA Conc.
82	16.73333333

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.002			
120	0.001			
180	0.001			
240	0.001			
300	0.001			
360	0.002			
420	0.002			
480	0.002			
540	0.002			
600	0.002			
660	0.001			
720	0.001			
780	0.002			
840	0.002			
900	0.002			1.6
960	0.002			1.6
1020	0.002			1.666666667
1080	0.002			1.733333333
1140	0.002			1.8
1200	0.002			1.866666667
1260	0.002			1.866666667
1320	0.003			1.933333333
1380	0.003			2
1440	0.004			2.133333333
1500	0.003			2.2
1560	0.003			2.333333333
1620	0.003			2.466666667

1680	0.003	2.533333333
1740	0.003	2.6
1800	0.003	2.666666667
1860	0.003	2.733333333
1920	0.004	2.866666667
1980	0.004	3
2040	0.003	3.066666667
2100	0.003	3.133333333
2160	0.003	3.2
2220	0.003	3.2
2280	0.003	3.2
2340	0.004	3.2
2400	0.004	3.266666667
2460	0.003	3.266666667
2520	0.003	3.266666667
2580	0.004	3.333333333
2640	0.004	3.4
2700	0.003	3.4
2760	0.004	3.466666667
2820	0.004	3.466666667
2880	0.005	3.533333333
2940	0.003	3.533333333
3000	0.004	3.6
3060	0.005	3.733333333
3120	0.005	3.866666667
3180	0.004	3.933333333
3240	0.004	3.933333333
3300	0.005	4
3360	0.004	4.066666667
3420	0.004	4.133333333
3480	0.004	4.133333333
3540	0.004	4.133333333
3600	0.004	4.2
3660	0.004	4.2
3720	0.004	4.2
3780	0.005	4.2
3840	0.007	4.466666667
3900	0.005	4.533333333
3960	0.006	4.6
4020	0.005	4.6
4080	0.005	4.666666667
4140	0.004	4.666666667
4200	0.006	4.733333333
4260	0.005	4.8
4320	0.005	4.866666667
4380	0.004	4.866666667
4440	0.005	4.933333333

4500	0.005	5
4560	0.004	5
4620	0.006	5.133333333
4680	0.007	5.266666667
4740	0.005	5.133333333
4800	0.005	5.133333333
4860	0.005	5.066666667
4920	0.005	5.066666667
4980	0.005	5.066666667
5040	0.004	5.066666667
5100	0.006	5.066666667
5160	0.006	5.133333333
5220	0.006	5.2
5280	0.006	5.333333333
5340	0.005	5.333333333
5400	0.005	5.333333333
5460	0.005	5.4
5520	0.006	5.4
5580	0.007	5.4
5640	0.006	5.466666667
5700	0.005	5.466666667
5760	0.01	5.8
5820	0.013	6.333333333
5880	0.011	6.733333333
5940	0.007	6.933333333
6000	0.006	6.933333333
6060	0.007	7
6120	0.007	7.066666667
6180	0.009	7.266666667
6240	0.01	7.6
6300	0.007	7.733333333
6360	0.007	7.866666667
6420	0.009	8.066666667
6480	0.008	8.133333333
6540	0.01	8.4
6600	0.01	8.733333333
6660	0.008	8.6
6720	0.007	8.2
6780	0.006	7.866666667
6840	0.009	8
6900	0.007	8.066666667
6960	0.007	8.066666667
7020	0.008	8.133333333
7080	0.009	8.133333333
7140	0.013	8.333333333
7200	0.006	8.266666667
7260	0.007	8.266666667

7320	0.012	8.466666667
7380	0.011	8.666666667
7440	0.009	8.6
7500	0.007	8.4
7560	0.008	8.4
7620	0.008	8.466666667
7680	0.007	8.533333333
7740	0.006	8.333333333
7800	0.007	8.333333333
7860	0.007	8.333333333
7920	0.007	8.266666667
7980	0.007	8.133333333
8040	0.008	7.8
8100	0.008	7.933333333
8160	0.008	8
8220	0.009	7.8
8280	0.009	7.666666667
8340	0.01	7.733333333
8400	0.007	7.733333333
8460	0.007	7.666666667
8520	0.007	7.6
8580	0.009	7.733333333
8640	0.007	7.8
8700	0.007	7.8
8760	0.007	7.8
8820	0.007	7.8
8880	0.007	7.8
8940	0.007	7.733333333
9000	0.008	7.733333333
9060	0.008	7.733333333
9120	0.007	7.6
9180	0.007	7.466666667
9240	0.007	7.266666667
9300	0.008	7.333333333
9360	0.009	7.466666667
9420	0.009	7.6
9480	0.008	7.533333333
9540	0.007	7.533333333
9600	0.007	7.533333333
9660	0.009	7.666666667
9720	0.009	7.8
9780	0.007	7.8
9840	0.007	7.8
9900	0.007	7.733333333
9960	0.007	7.666666667
10020	0.007	7.666666667
10080	0.007	7.666666667

10140	0.007	7.666666667
10200	0.007	7.6
10260	0.008	7.533333333
10320	0.007	7.4
10380	0.007	7.333333333
10440	0.008	7.4
10500	0.008	7.466666667
10560	0.009	7.466666667
10620	0.008	7.4
10680	0.009	7.533333333
10740	0.008	7.6
10800	0.013	8
10860	0.011	8.266666667
10920	0.012	8.6
10980	0.011	8.866666667
11040	0.011	9.133333333
11100	0.011	9.4
11160	0.009	9.466666667
11220	0.011	9.733333333
11280	0.011	10
11340	0.01	10.13333333
11400	0.012	10.4
11460	0.01	10.46666667
11520	0.007	10.4
11580	0.008	10.33333333
11640	0.01	10.46666667
11700	0.008	10.13333333
11760	0.008	9.933333333
11820	0.008	9.666666667
11880	0.008	9.466666667
11940	0.008	9.266666667
12000	0.01	9.2
12060	0.008	9.133333333
12120	0.009	9
12180	0.009	8.866666667
12240	0.017	9.333333333
12300	0.01	9.2
12360	0.009	9.133333333
12420	0.011	9.4
12480	0.012	9.666666667
12540	0.012	9.8
12600	0.01	9.933333333
12660	0.009	10
12720	0.011	10.2
12780	0.01	10.33333333
12840	0.009	10.4
12900	0.008	10.26666667

12960	0.011	10.46666667
13020	0.01	10.53333333
13080	0.011	10.66666667
13140	0.01	10.2
13200	0.009	10.13333333
13260	0.008	10.06666667
13320	0.01	10
13380	0.01	9.866666667
13440	0.008	9.6
13500	0.008	9.466666667
13560	0.008	9.4
13620	0.011	9.4
13680	0.009	9.333333333
13740	0.01	9.4
13800	0.009	9.466666667
13860	0.009	9.333333333
13920	0.009	9.266666667
13980	0.01	9.2
14040	0.009	9.133333333
14100	0.009	9.133333333
14160	0.012	9.4
14220	0.011	9.466666667
14280	0.009	9.4
14340	0.009	9.466666667
14400	0.011	9.666666667
14460	0.009	9.733333333
14520	0.01	9.666666667
14580	0.01	9.733333333
14640	0.01	9.733333333
14700	0.009	9.733333333
14760	0.012	9.933333333
14820	0.013	10.2
14880	0.009	10.13333333
14940	0.01	10.2
15000	0.009	10.2
15060	0.01	10.06666667
15120	0.011	10.06666667
15180	0.01	10.13333333
15240	0.01	10.2
15300	0.011	10.2
15360	0.011	10.33333333
15420	0.011	10.4
15480	0.009	10.33333333
15540	0.009	10.26666667
15600	0.009	10.26666667
15660	0.009	10.06666667
15720	0.01	9.866666667

15780	0.01	9.933333333
15840	0.011	10
15900	0.011	10.13333333
15960	0.012	10.26666667
16020	0.01	10.2
16080	0.011	10.26666667
16140	0.011	10.33333333
16200	0.01	10.26666667
16260	0.01	10.2
16320	0.012	10.26666667
16380	0.011	10.4
16440	0.01	10.46666667
16500	0.01	10.53333333
16560	0.011	10.66666667
16620	0.011	10.73333333
16680	0.011	10.8
16740	0.01	10.73333333
16800	0.01	10.66666667
16860	0.011	10.6
16920	0.012	10.73333333
16980	0.01	10.66666667
17040	0.01	10.6
17100	0.01	10.6
17160	0.011	10.66666667
17220	0.014	10.8
17280	0.012	10.86666667
17340	0.011	10.93333333
17400	0.01	10.93333333
17460	0.01	10.86666667
17520	0.012	10.93333333
17580	0.011	10.93333333
17640	0.011	11
17700	0.01	11
17760	0.011	11
17820	0.011	10.93333333
17880	0.01	10.93333333
17940	0.014	11.2
18000	0.01	11.2
18060	0.011	11.2
18120	0.011	11
18180	0.011	10.93333333
18240	0.01	10.86666667
18300	0.01	10.86666667
18360	0.011	10.93333333
18420	0.012	10.93333333
18480	0.014	11.13333333
18540	0.013	11.26666667

18600	0.012	11.4
18660	0.011	11.4
18720	0.011	11.4
18780	0.012	11.53333333
18840	0.011	11.33333333
18900	0.011	11.4
18960	0.011	11.4
19020	0.011	11.4
19080	0.011	11.4
19140	0.011	11.46666667
19200	0.011	11.53333333
19260	0.011	11.53333333
19320	0.014	11.66666667
19380	0.011	11.46666667
19440	0.011	11.33333333
19500	0.011	11.26666667
19560	0.011	11.26666667
19620	0.011	11.26666667
19680	0.011	11.2
19740	0.011	11.2
19800	0.012	11.26666667
19860	0.012	11.33333333
19920	0.012	11.4
19980	0.014	11.6
20040	0.012	11.66666667
20100	0.013	11.8
20160	0.011	11.8
20220	0.012	11.66666667
20280	0.011	11.66666667
20340	0.011	11.66666667
20400	0.014	11.86666667
20460	0.012	11.93333333
20520	0.011	11.93333333
20580	0.011	11.93333333
20640	0.011	11.93333333
20700	0.011	11.86666667
20760	0.011	11.8
20820	0.082	16.46666667
20880	0.011	16.26666667
20940	0.014	16.4
21000	0.012	16.33333333
21060	0.011	16.33333333
21120	0.011	16.26666667
21180	0.011	16.26666667
21240	0.014	16.46666667
21300	0.013	16.4
21360	0.012	16.4

21420	0.013	16.53333333
21480	0.011	16.53333333
21540	0.011	16.53333333
21600	0.011	16.53333333
21660	0.014	16.73333333
21720	0.011	12
21780	0.011	12
21840	0.01	11.73333333
21900	0.01	11.6
21960	0.01	11.53333333
22020	0.01	11.46666667
22080	0.011	11.46666667
22140	0.011	11.26666667
22200	0.01	11.06666667
22260	0.01	10.93333333
22320	0.01	10.73333333
22380	0.011	10.73333333
22440	0.011	10.73333333
22500	0.01	10.66666667
22560	0.01	10.4
22620	0.011	10.4
22680	0.011	10.4
22740	0.011	10.46666667
22800	0.012	10.6
22860	0.011	10.66666667
22920	0.011	10.73333333
22980	0.012	10.8
23040	0.012	10.86666667
23100	0.044	13.13333333
23160	0.023	14
23220	0.018	14.53333333
23280	0.013	14.66666667
23340	0.013	14.8
23400	0.013	15
23460	0.012	15.13333333
23520	0.012	15.2
23580	0.012	15.26666667
23640	0.011	15.26666667
23700	0.011	15.2
23760	0.012	15.26666667
23820	0.011	15.26666667
23880	0.011	15.2
23940	0.012	15.2
24000	0.01	12.93333333
24060	0.01	12.06666667
24120	0.011	11.6
24180	0.011	11.46666667

24240	0.01	11.26666667
24300	0.014	11.33333333
24360	0.011	11.26666667
24420	0.013	11.33333333
24480	0.017	11.66666667
24540	0.012	11.73333333
24600	0.012	11.8
24660	0.012	11.8
24720	0.011	11.8
24780	0.011	11.8
24840	0.011	11.73333333
24900	0.012	11.86666667
24960	0.011	11.93333333
25020	0.012	12
25080	0.013	12.13333333
25140	0.012	12.26666667
25200	0.011	12.06666667
25260	0.011	12.06666667
25320	0.011	11.93333333
25380	0.011	11.53333333
25440	0.012	11.53333333
25500	0.012	11.53333333
25560	0.011	11.46666667
25620	0.011	11.46666667
25680	0.011	11.46666667
25740	0.011	11.46666667
25800	0.011	11.4
25860	0.011	11.4
25920	0.012	11.4
25980	0.011	11.26666667
26040	0.012	11.26666667
26100	0.012	11.33333333

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162208
Firmware Version	3.9
Calibration Date	4/2/2020
Test Name	BSB-DUST_073
Test Start Time	11:30:31 AM
Test Start Date	4/12/2021
Test Length [D:H:M]	0:02:56
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.008
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.021
Mass TWA [mg/m3]	0.003
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	174

Max Instant Conc.	Max 15 min TWA Conc.
21	9.866666667

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	
60	0.004			
120	0.003			
180	0.003			
240	0.004			
300	0.004			
360	0.005			
420	0.009			
480	0.005			
540	0.004			
600	0.003			
660	0.004			
720	0.004			
780	0.004			
840	0.004			
900	0.004			4.266666667
960	0.004			4.266666667
1020	0.004			4.333333333
1080	0.004			4.4
1140	0.004			4.4
1200	0.004			4.4
1260	0.004			4.333333333
1320	0.005			4.066666667
1380	0.005			4.066666667
1440	0.005			4.133333333
1500	0.005			4.266666667
1560	0.005			4.333333333
1620	0.006			4.466666667

1680	0.006	4.6
1740	0.005	4.666666667
1800	0.005	4.733333333
1860	0.006	4.866666667
1920	0.006	5
1980	0.006	5.133333333
2040	0.006	5.266666667
2100	0.006	5.4
2160	0.006	5.533333333
2220	0.006	5.6
2280	0.006	5.666666667
2340	0.006	5.733333333
2400	0.006	5.8
2460	0.007	5.933333333
2520	0.007	6
2580	0.007	6.066666667
2640	0.007	6.2
2700	0.007	6.333333333
2760	0.007	6.4
2820	0.007	6.466666667
2880	0.007	6.533333333
2940	0.007	6.6
3000	0.007	6.666666667
3060	0.009	6.866666667
3120	0.007	6.933333333
3180	0.008	7.066666667
3240	0.011	7.4
3300	0.01	7.666666667
3360	0.009	7.8
3420	0.008	7.866666667
3480	0.008	7.933333333
3540	0.009	8.066666667
3600	0.008	8.133333333
3660	0.009	8.266666667
3720	0.009	8.4
3780	0.008	8.466666667
3840	0.008	8.533333333
3900	0.009	8.666666667
3960	0.008	8.6
4020	0.009	8.733333333
4080	0.008	8.733333333
4140	0.008	8.533333333
4200	0.009	8.466666667
4260	0.009	8.466666667
4320	0.009	8.533333333
4380	0.009	8.6
4440	0.009	8.6

4500	0.009	8.666666667
4560	0.009	8.666666667
4620	0.008	8.6
4680	0.009	8.666666667
4740	0.008	8.666666667
4800	0.008	8.6
4860	0.008	8.6
4920	0.009	8.6
4980	0.009	8.666666667
5040	0.009	8.733333333
5100	0.009	8.733333333
5160	0.009	8.733333333
5220	0.009	8.733333333
5280	0.009	8.733333333
5340	0.009	8.733333333
5400	0.009	8.733333333
5460	0.009	8.733333333
5520	0.009	8.8
5580	0.009	8.8
5640	0.009	8.866666667
5700	0.009	8.933333333
5760	0.009	9
5820	0.009	9
5880	0.009	9
5940	0.009	9
6000	0.009	9
6060	0.009	9
6120	0.009	9
6180	0.009	9
6240	0.008	8.933333333
6300	0.009	8.933333333
6360	0.009	8.933333333
6420	0.009	8.933333333
6480	0.009	8.933333333
6540	0.009	8.933333333
6600	0.009	8.933333333
6660	0.009	8.933333333
6720	0.009	8.933333333
6780	0.009	8.933333333
6840	0.009	8.933333333
6900	0.009	8.933333333
6960	0.009	8.933333333
7020	0.009	8.933333333
7080	0.009	8.933333333
7140	0.009	9
7200	0.008	8.933333333
7260	0.01	9

7320	0.01	9.066666667
7380	0.01	9.133333333
7440	0.012	9.333333333
7500	0.008	9.266666667
7560	0.009	9.266666667
7620	0.01	9.333333333
7680	0.008	9.266666667
7740	0.008	9.2
7800	0.008	9.133333333
7860	0.008	9.066666667
7920	0.008	9
7980	0.008	8.933333333
8040	0.008	8.866666667
8100	0.008	8.866666667
8160	0.008	8.733333333
8220	0.008	8.6
8280	0.008	8.466666667
8340	0.008	8.2
8400	0.008	8.2
8460	0.008	8.133333333
8520	0.008	8
8580	0.008	8
8640	0.008	8
8700	0.008	8
8760	0.008	8
8820	0.008	8
8880	0.008	8
8940	0.008	8
9000	0.016	8.533333333
9060	0.009	8.6
9120	0.021	9.466666667
9180	0.01	9.6
9240	0.008	9.6
9300	0.008	9.6
9360	0.008	9.6
9420	0.008	9.6
9480	0.008	9.6
9540	0.012	9.866666667
9600	0.008	9.866666667
9660	0.007	9.8
9720	0.007	9.733333333
9780	0.007	9.666666667
9840	0.007	9.6
9900	0.007	9
9960	0.007	8.866666667
10020	0.007	7.933333333
10080	0.007	7.733333333

10140	0.007	7.666666667
10376	0	7.133333333
10380	0.017	7.733333333
10440	0.009	7.8
10500	0.007	7.733333333
10560	0.008	7.466666667

APPENDIX F
DEWATERING EFFLUENT DATA

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

Analysis Report

October 09, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/06/20	11:45
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	10/06/20	14:16
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCG91251
Phoenix ID: CG91251

Project ID: BERLIN SETTLING BASIN
Client ID: MW-PH2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.004	0.001	mg/L	1	10/07/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	10/07/20	TH	SW6010D
Barium	0.377	0.002	mg/L	1	10/07/20	TH	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	10/07/20	TH	SW6010D
Cadmium	0.002	0.001	mg/L	1	10/07/20	TH	SW6010D
Chromium	0.002	0.001	mg/L	1	10/07/20	TH	SW6010D
Copper	0.019	0.005	mg/L	1	10/07/20	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	10/08/20	RS	SW7470A
Nickel	0.017	0.001	mg/L	1	10/07/20	TH	SW6010D
Lead	0.004	0.002	mg/L	1	10/07/20	TH	SW6010D
Antimony	< 0.005	0.005	mg/L	1	10/07/20	TH	SW6010D
Selenium	0.012	0.010	mg/L	1	10/07/20	EK	SW6010D
Thallium	< 0.001	0.001	mg/L	1	10/08/20	RS	SW7010
Vanadium	0.003	0.002	mg/L	1	10/07/20	EK	SW6010D
Zinc	0.012	0.004	mg/L	1	10/07/20	TH	SW6010D
Nitrite-N	< 0.010	0.010	mg/L	1	10/06/20 17:04	GD	E353.2
Nitrate-N	0.07	0.02	mg/L	1	10/06/20 17:04	GD	E353.2
pH	7.41	1.00	pH Units	1	10/06/20 21:16	AP/KDB	SM4500-H B-11
Settleable Solids	< 0.10	0.10	ml/L	1	10/07/20 05:05	KDB	SM2540F-11
Nitrogen Tot Kjeldahl	1.64	0.10	mg/L	1	10/08/20	KDB	E351.1
Total Nitrogen	1.71	0.10	mg/L	1	10/08/20	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.034	0.010	mg/L	1	10/07/20	JR	SM4500PE-11
Total Suspended Solids	13	3.3	mg/L	0.7	10/07/20	QH/EP	SM 2540D-11
Extraction of CT ETPH	Completed				10/08/20	P/CG	SW3510C/SW3520C
Mercury Digestion	Completed				10/08/20	ARW/VT	SW7470A
PCB Extraction	Completed				10/07/20	C/N	SW3510C
Semi-Volatile Extraction	Completed				10/06/20	P/CG	SW3520C
Total Metals Digestion	Completed				10/06/20	AG	

Project ID: BERLIN SETTLING BASIN
Client ID: MW-PH2
Phoenix I.D.: CG91251

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.29	0.066	mg/L	1	10/09/20	JRB	CTETPH 8015D
Identification	**		mg/L	1	10/09/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	58		%	1	10/09/20	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1221	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1232	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1242	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1248	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1254	1.0	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1260	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1262	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
PCB-1268	ND	0.48	ug/L	1	10/08/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	70		%	1	10/08/20	SC	30 - 150 %
% DCBP (Confirmation)	97		%	1	10/08/20	SC	30 - 150 %
% TCMX	77		%	1	10/08/20	SC	30 - 150 %
% TCMX (Confirmation)	130		%	1	10/08/20	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2,3-Trichlorobenzene	45	5.0	ug/L	5	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2,4-Trichlorobenzene	19	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dichlorobenzene	1.6	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: MW-PH2

Phoenix I.D.: CG91251

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Acetone	ND	25	ug/L	1	10/06/20	JLI	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
Benzene	1.9	0.70	ug/L	1	10/06/20	JLI	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
Bromoform	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Chlorobenzene	35	5.0	ug/L	5	10/07/20	JLI	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Chloroform	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/06/20	JLI	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/06/20	JLI	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
sec-Butylbenzene	1.0	1.0	ug/L	1	10/06/20	JLI	SW8260C
Styrene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/06/20	JLI	SW8260C
Toluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/06/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/06/20	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	10/06/20	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	10/06/20	JLI	70 - 130 %

Project ID: BERLIN SETTLING BASIN
Client ID: MW-PH2

Phoenix I.D.: CG91251

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% Toluene-d8	94		%	1	10/06/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (5x)	97		%	5	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene (5x)	91		%	5	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane (5x)	104		%	5	10/07/20	JLI	70 - 130 %
% Toluene-d8 (5x)	93		%	5	10/07/20	JLI	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
Acenaphthene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	10/07/20	WB	SW8270D (SIM)
Anthracene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/07/20	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	10/07/20	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	10/07/20	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	10/07/20	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	10/07/20	WB	SW8270D (SIM)
Chrysene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	10/07/20	WB	SW8270D (SIM)
Fluoranthene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
Fluorene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	10/07/20	WB	SW8270D (SIM)
Naphthalene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	10/07/20	WB	SW8270D (SIM)
Pyrene	ND	0.51	ug/L	1	10/07/20	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	10/07/20	WB	30 - 130 %
% Nitrobenzene-d5	79		%	1	10/07/20	WB	30 - 130 %
% Terphenyl-d14	68		%	1	10/07/20	WB	30 - 130 %

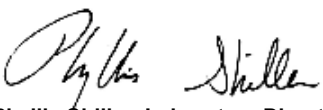
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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
October 09, 2020
Official Report Release To Follow

PHOENIX

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

Analysis Report

October 09, 2020

FOR: Attn: Ryan Bartoz
Weston & Sampson
712 Brook Street Suite 103
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		10/06/20	
Location Code:	WESTSAM-EVERBERLIN	Received by:	SW	10/06/20	14:16
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCG91251
Phoenix ID: CG91252

Project ID: BERLIN SETTLING BASIN
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	10/06/20	JLI	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
2-Hexanone	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: TRIP BLANK

Phoenix I.D.: CG91252

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Acetone	ND	25	ug/L	1	10/06/20	JLI	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
Benzene	ND	0.70	ug/L	1	10/06/20	JLI	SW8260C
Bromobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
Bromoform	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Bromomethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Chloroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Chloroform	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Chloromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/06/20	JLI	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	10/06/20	JLI	SW8260C
Dibromomethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	10/06/20	JLI	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Methylene chloride	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Naphthalene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
o-Xylene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Styrene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/06/20	JLI	SW8260C
Toluene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Total Xylenes	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/06/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/06/20	JLI	SW8260C
Trichloroethene	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	10/06/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	10/06/20	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	10/06/20	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	10/06/20	JLI	70 - 130 %

Project ID: BERLIN SETTLING BASIN
Client ID: TRIP BLANK
Phoenix I.D.: CG91252

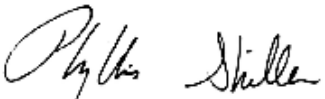
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% Toluene-d8	93		%	1	10/06/20	JLI	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED.

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
October 09, 2020
Official Report Release To Follow

Friday, October 09, 2020

Sample Criteria Exceedances Report

GCG91251 - WESTSAM-EVERBERLIN

Criteria: CT: GWP, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG91251	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG91251	$8260GWR	Benzene	CT / RSR GWPC (ug/l) / Volatiles	1.9	0.70	1	1	ug/L
CG91251	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG91251	$8260GWR	1,2,4-Trichlorobenzene	CT / RSR SWPC (ug/l) / APS Organics	19	1.0	9.6	9.6	ug/L
CG91251	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	0.29	0.066	0.25	0.25	mg/L
CG91251	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.29	0.066	0.25	0.25	mg/L
CG91251	$PCB_WMR	PCB-1254	CT / RSR GWPC (ug/l) / Pest/PCB/TPH	1.0	0.48	0.5	0.5	ug/L
CG91251	$PCB_WMR	PCB-1254	CT / RSR SWPC (ug/l) / Pest/PCB	1.0	0.48	0.5	0.5	ug/L
CG91252	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG91252	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L

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.

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

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 1. °C Pg 1 of 1

Data Delivery/Contact Options:
☐ Fax: bealerm@wseinc.com
☐ Phone: bartoszr@wseinc.com
☒ Email: sirotnakw@wseinc.com

Customer: Weston and Sampson
Address: 273 Dividend Road
Rocky Hill, CT 06067

Project: Berlin Settling Basin
Report to: Ryan Bartosz & Will Sirotnak
Invoice to: Eversource - Matt Calvert
QUOTE #

Project P.C Eversource - 10964163

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature [redacted] Date: 10/6/20

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	ETPH	PCBs	PAHs	VOCs	RCP 15 Metals	Total Nitrogen/Total phosphorus	Total Suspended Solids	Settleable Solids	pH, Temp	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	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
* 91251	MW-PH2	GW	10/6/20	1145	X	X	X	X	X	X	X	X	X				3	4	11	1	1					
91252	[redacted] Blank		10/6/20														2									

Relinquished by:	Accepted by:	Date:	Time:
[redacted]	[redacted]	10.6.20	1:25
[redacted]	[redacted]	10/6	1416

Comments, Special Requirements or Regulations:

~~Please note: Total SPLP analysis.~~

* NO HNO3 RCVD

*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

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

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

Analysis Report

February 18, 2021

FOR: Attn: Mr Ryan Bartosz
Weston and Sampson
273 Dividend Road
Rocky Hill CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		02/16/21	10:00
Location Code:	WESTSAMBERLNSTR	Received by:	B	02/16/21	15:23
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCH63304
Phoenix ID: CH63304

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/16/21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	02/17/21	EK	SW6010D
Aluminum	0.246	0.020	mg/L	1	02/17/21	EK	SW6010D
Arsenic	0.009	0.004	mg/L	1	02/17/21	EK	SW6010D
Barium	0.261	0.002	mg/L	1	02/17/21	EK	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	02/17/21	EK	SW6010D
Boron	0.30	0.05	mg/L	1	02/17/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	02/17/21	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	02/17/21	EK	SW6010D
Copper	< 0.005	0.005	mg/L	1	02/17/21	EK	SW6010D
Iron	0.013	0.010	mg/L	1	02/17/21	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	02/17/21	RS	SW7470A
Potassium	3.3	0.1	mg/L	1	02/17/21	EK	SW6010D
Magnesium	28.5	0.010	mg/L	1	02/17/21	EK	SW6010D
Manganese	5.50	0.010	mg/L	10	02/18/21	TH	SW6010D
Sodium	492	1.0	mg/L	10	02/18/21	TH	SW6010D
Nickel	0.003	0.001	mg/L	1	02/17/21	EK	SW6010D
Lead	< 0.002	0.002	mg/L	1	02/17/21	EK	SW6010D
Antimony	< 0.005	0.005	mg/L	1	02/17/21	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	02/17/21	EK	SW6010D
Tin	< 0.02	0.02	mg/L	1	02/17/21	EK	SW6010D
Thallium	< 0.001	0.001	mg/L	1	02/17/21	RS	SW7010
Vanadium	0.009	0.002	mg/L	1	02/17/21	EK	SW6010D
Zinc	0.005	0.004	mg/L	1	02/17/21	EK	SW6010D
Chloride	805	30.0	mg/L	10	02/17/21	TB	SM4500CLE-11
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	02/16/21 17:01	MW	SM3500CRB-11
Nitrite-N	0.028	0.010	mg/L	1	02/16/21 18:14	TB	E353.2
Nitrate-N	0.23	0.02	mg/L	1	02/16/21 18:14	TB	E353.2
pH	8.47	1.00	pH Units	1	02/17/21 00:37	AP/EG	SM4500-H B-11

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/16/21

Phoenix I.D.: CH63304

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Settleable Solids	< 0.12	0.12	ml/L	1.2	02/17/21 05:20	KDB	SM2540F-11
Total Cyanide	< 0.010	0.010	mg/L	1	02/17/21	O/GD	SW9010C/SW9012B
Nitrogen Tot Kjeldahl	0.59	0.10	mg/L	1	02/17/21	KDB	E351.1
Total Nitrogen	0.85	0.10	mg/L	1	02/17/21	KDB	SM4500NH3/E300.0-11
O&G, Non-polar Material	< 1.4	1.4	mg/L	1	02/17/21	MSF	E1664A
Phosphorus, as P	0.201	0.020	mg/L	2	02/17/21	EG	SM4500PE-11
Total Suspended Solids	< 3.3	3.3	mg/L	0.7	02/17/21	LS	SM 2540D-11
Extraction of ETPH	Completed				02/16/21	AM/CG	SW3510C/SW3520C
Mercury Digestion	Completed				02/17/21		SW7470A
PCB Extraction	Completed				02/16/21	C/N	SW3510C
Semi-Volatile Extraction	Completed				02/16/21	A/CG	SW3520C
Total Metals Digestion	Completed				02/16/21	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	02/18/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	02/18/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	02/18/21	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1221	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1232	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1242	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1248	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1254	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1260	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1262	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
PCB-1268	ND	0.48	ug/L	1	02/17/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	87		%	1	02/17/21	SC	30 - 150 %
% DCBP (Confirmation)	92		%	1	02/17/21	SC	30 - 150 %
% TCMX	106		%	1	02/17/21	SC	30 - 150 %
% TCMX (Confirmation)	108		%	1	02/17/21	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	02/16/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	02/16/21	MH	SW8260C
1,2-Dibromoethane	ND	0.50	ug/L	1	02/16/21	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/16/21
Phoenix I.D.: CH63304

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	0.60	ug/L	1	02/16/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	02/16/21	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	02/16/21	MH	SW8260C
Acetone	ND	25	ug/L	1	02/16/21	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	02/16/21	MH	SW8260C
Benzene	ND	0.70	ug/L	1	02/16/21	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	02/16/21	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	02/16/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	02/16/21	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	02/16/21	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	02/16/21	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	02/16/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Styrene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	02/16/21	MH	SW8260C
Toluene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/16/21
Phoenix I.D.: CH63304

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	02/16/21	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	02/16/21	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	02/16/21	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	02/16/21	MH	70 - 130 %
% Bromofluorobenzene	88		%	1	02/16/21	MH	70 - 130 %
% Dibromofluoromethane	109		%	1	02/16/21	MH	70 - 130 %
% Toluene-d8	102		%	1	02/16/21	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	02/17/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	02/17/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	02/17/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	02/17/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	02/17/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	02/17/21	WB	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	02/17/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	02/17/21	WB	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	02/17/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	02/17/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	02/17/21	WB	30 - 130 %
% Nitrobenzene-d5	49		%	1	02/17/21	WB	30 - 130 %
% Terphenyl-d14	77		%	1	02/17/21	WB	30 - 130 %

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/16/21
Phoenix I.D.: CH63304

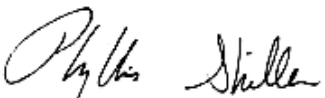
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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
February 18, 2021
Official Report Release To Follow

Thursday, February 18, 2021

Criteria: CT: GAM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCH63304 - WESTSAMBERLNSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CH63304	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CH63304	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CH63304	AL-WM	Aluminum	CT / RSR GA,GAA (mg/kg) / APS Inorganics (SPLP)	0.246	0.020	0.05	0.05	mg/L
CH63304	AL-WM	Aluminum	CT / RSR GWPC (ug/l) / APS Inorganics	0.246	0.020	0.05	0.05	mg/L
CH63304	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.009	0.004	0.004	0.004	mg/L
CH63304	CLD-WM	Chloride	CT / RSR SWPC (ug/l) / APS Inorganics	805	30.0	10	10	mg/L
CH63304	MN-WM	Manganese	CT / RSR GA,GAA (mg/kg) / APS Inorganics (SPLP)	5.50	0.010	0.5	0.5	mg/L
CH63304	MN-WM	Manganese	CT / RSR GWPC (ug/l) / APS Inorganics	5.50	0.010	0.5	0.5	mg/L
CH63304	MN-WM	Manganese	CT / RSR SWPC (ug/l) / APS Inorganics	5.50	0.010	0.93	0.93	mg/L

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.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] 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 2.1 °C Pg 1 of 1

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone: bartoszr@wseinc.com
[X] Email: sirotnakw@wseinc.com

Customer: Weston and Sampson
Address: 273 Dividend Road
Rocky Hill, CT 06067

Project: Berlin Settling Basin
Report to: Ryan Bartosz & Will Sirotnak
Invoice to: Strategic Environmental Services - Paul Saccente
QUOTE #

Project P.C Eversource - 10964163

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 2/16/21

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SO=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	Cr 15 Metals + Mo, Mn, K, Na	SM, B, Al, Be, Cl, Fe	Hex Cr, pH, TSS, NO2, NO3	Total Cyanide	PAH, PCB, CTPH	Oil+ Grease - HC Fraction	Total Nitrogen Phosphorus	Se Fe M & E	VOCs	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 [ ]	PL As is [ ] 250ml [ ]	PL H2SO4 [ ] 250ml [ ]	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
le3304	Dewater-2/16/21	GW	2/16/21	1000	X	X	X	X	X	X	X	X	X						3	4	1	1	1	1			

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/16/21	2:45
[signature]	[signature]	2/16	1523

Comments, Special Requirements or Regulations:
Send invoice to
PSaccente@Strategic-es.com

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

Turnaround Time:
[ ] 1 Day*
[X] 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
[X] RCP Cert
[X] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] 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

State where samples were collected: CT

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

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

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

Analysis Report

February 24, 2021

FOR: Attn: Mr Ryan Bartosz
Weston and Sampson
273 Dividend Road
Rocky Hill CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		02/22/21	10:00
Location Code:	WESTSAMBERLNSTR	Received by:	SW	02/22/21	13:24
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCH66071
Phoenix ID: CH66071

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER-2/22/21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.002	0.001	mg/L	1	02/23/21	EK	SW6010D
Aluminum	0.044	0.020	mg/L	1	02/23/21	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	02/23/21	EK	SW6010D
Barium	0.421	0.002	mg/L	1	02/23/21	EK	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	02/23/21	EK	SW6010D
Boron	0.12	0.05	mg/L	1	02/23/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	02/23/21	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	02/23/21	EK	SW6010D
Copper	< 0.005	0.005	mg/L	1	02/23/21	EK	SW6010D
Iron	0.023	0.010	mg/L	1	02/23/21	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	02/23/21	RS	SW7470A
Potassium	4.0	0.1	mg/L	1	02/23/21	EK	SW6010D
Magnesium	39.0	0.010	mg/L	1	02/23/21	EK	SW6010D
Manganese	12.0	0.10	mg/L	100	02/23/21	EK	SW6010D
Sodium	697	10	mg/L	100	02/23/21	EK	SW6010D
Nickel	0.009	0.001	mg/L	1	02/23/21	EK	SW6010D
Lead	< 0.002	0.002	mg/L	1	02/23/21	EK	SW6010D
Antimony	< 0.005	0.005	mg/L	1	02/23/21	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	02/23/21	EK	SW6010D
Tin	< 0.02	0.02	mg/L	1	02/23/21	EK	SW6010D
Thallium	< 0.001	0.001	mg/L	1	02/23/21	RS	SW7010
Vanadium	0.004	0.002	mg/L	1	02/23/21	EK	SW6010D
Zinc	0.053	0.004	mg/L	1	02/23/21	EK	SW6010D
Chloride	1280	60.0	mg/L	20	02/23/21	TB	SM4500CLE-11
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	02/22/21 16:56	MW	SM3500CRB-11
Nitrite as Nitrogen	< 0.10	0.10	mg/L	10	02/22/21 23:09	BS/GD	E300.0
Nitrate as Nitrogen	0.60	0.05	mg/L	1	02/22/21 22:49	BS/GD	E300.0
pH	7.93	1.00	pH Units	1	02/22/21 23:30	AP/EG	SM4500-H B-11

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER-2/22/21

Phoenix I.D.: CH66071

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Settleable Solids	< 0.12	0.12	ml/L	1.2	02/23/21 05:32	KDB	SM2540F-11	
Total Cyanide	< 0.010	0.010	mg/L	1	02/23/21	LS	SW9010C/SW9012B	
Nitrogen Tot Kjeldahl	0.40	0.10	mg/L	1	02/24/21	KDB	E351.1	
Total Nitrogen	1.00	0.10	mg/L	1	02/24/21	KDB	SM4500NH3/E300.0-11	
O&G, Non-polar Material	< 1.4	1.4	mg/L	1	02/24/21	MSF	E1664A	
Phosphorus, as P	0.125	0.010	mg/L	1	02/23/21	JR	SM4500PE-11	
Total Suspended Solids	< 3.3	3.3	mg/L	0.7	02/23/21	LS	SM 2540D-11	
Extraction of ETPH	Completed				02/22/21	M/CG	SW3510C/SW3520C	
Mercury Digestion	Completed				02/23/21	ARW	SW7470A	
PCB Extraction	Completed				02/22/21	K/K	SW3510C	
Semi-Volatile Extraction	Completed				02/22/21	A/CG	SW3520C	
Total Metals Digestion	Completed				02/22/21	AG		
TPH by GC (Extractable Products)								
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	02/23/21	JRB	CTETPH 8015D	
Identification	ND		mg/L	1	02/23/21	JRB	CTETPH 8015D	
QA/QC Surrogates								
% COD (surr)	44		%	1	02/23/21	JRB	50 - 150 %	3
% Terphenyl (surr)	73		%	1	02/23/21	JRB	50 - 150 %	
Polychlorinated Biphenyls								
PCB-1016	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1221	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1232	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1242	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1248	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1254	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1260	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1262	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
PCB-1268	ND	0.48	ug/L	1	02/24/21	SC	SW8082A	
QA/QC Surrogates								
% DCBP	103		%	1	02/24/21	SC	30 - 150 %	
% DCBP (Confirmation)	106		%	1	02/24/21	SC	30 - 150 %	
% TCMX	86		%	1	02/24/21	SC	30 - 150 %	
% TCMX (Confirmation)	91		%	1	02/24/21	SC	30 - 150 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	02/22/21	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	02/22/21	MH	SW8260C	
1,2-Dibromoethane	ND	0.50	ug/L	1	02/22/21	MH	SW8260C	

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER-2/22/21

Phoenix I.D.: CH66071

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	02/22/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	02/22/21	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	02/22/21	MH	SW8260C
Acetone	ND	25	ug/L	1	02/22/21	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	02/22/21	MH	SW8260C
Benzene	ND	0.70	ug/L	1	02/22/21	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	02/22/21	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	02/22/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	02/22/21	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	02/22/21	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	02/22/21	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	02/22/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Styrene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	02/22/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER-2/22/21
Phoenix I.D.: CH66071

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Toluene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	02/22/21	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	02/22/21	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	02/22/21	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	02/22/21	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	02/22/21	MH	70 - 130 %
% Dibromofluoromethane	109		%	1	02/22/21	MH	70 - 130 %
% Toluene-d8	93		%	1	02/22/21	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	02/23/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	02/23/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	02/23/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	02/23/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	02/23/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	02/23/21	WB	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	02/23/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	02/23/21	WB	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	02/23/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	02/23/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	44		%	1	02/23/21	WB	30 - 130 %
% Nitrobenzene-d5	46		%	1	02/23/21	WB	30 - 130 %
% Terphenyl-d14	92		%	1	02/23/21	WB	30 - 130 %

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER-2/22/21
Phoenix I.D.: CH66071

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

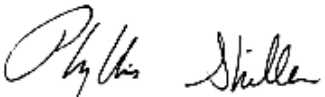
3 = This parameter exceeds laboratory specified limits.

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:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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
February 24, 2021
Official Report Release To Follow

Wednesday, February 24, 2021

Criteria: CT: GWP, SWP

State: CT

Sample Criteria Exceedances Report

GCH66071 - WESTSAMBERLNSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CH66071	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CH66071	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CH66071	CLD-WM	Chloride	CT / RSR SWPC (ug/l) / APS Inorganics	1280	60.0	10	10	mg/L
CH66071	MN-WM	Manganese	CT / RSR GWPC (ug/l) / APS Inorganics	12.0	0.10	0.5	0.5	mg/L
CH66071	MN-WM	Manganese	CT / RSR SWPC (ug/l) / APS Inorganics	12.0	0.10	0.93	0.93	mg/L

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.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] 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 1.2 °C Pg of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone: bartoszr@wseinc.com
[x] Email: sirotnakw@wseinc.com

Customer: Weston and Sampson
Address: 273 Dividend Road
Rocky Hill, CT 06067

Project: Berlin Settling Basin
Report to: Ryan Bartosz & Will Sirotnak
Invoice to: Strategic Environmental Services - Paul Saccente
QUOTE #

Project P.O. Eversource - 10964163

This section MUST be completed with Bottle Quantities.

Sampler's Signature: _____ Date: 2/22/21

Client Sample - Information - Identification

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	CT 15 Metals + mercury, cyanide, sulfide, phenol	SW, 8 Al, Fe, Cl, FE	Hex. cr, TPH, TSS, NO2, NO3	Total Cyanide	PAH, PCB, ETPH	Oil + Grease - HC fraction	Total nitrogen + Phosphorus	Settleable Solids	VOCs	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 [ ]	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
161071	Dewater - 2/22/21	GW	2/22/21	1000	X	X	X	X	X	X	X	X	X					3	4,1	1,1	1	1	1				

Relinquished by:	Accepted by:	Date:	Time:
		2/22/21	1250
		2/22/21	1324

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:
[x] 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
[x] RCP Cert
[ ] GW Protection
[ ] SW Protection
[x] GA Mobility
[ ] GB Mobility
[x] 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

State where samples were collected: CT

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

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

PHOENIX

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

Analysis Report

March 01, 2021

FOR: Attn: Mr Ryan Bartosz
Weston and Sampson
273 Dividend Road
Rocky Hill CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		02/25/21	10:00
Location Code:	WESTSAMBERLNSTR	Received by:	B	02/25/21	14:14
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCH68411
Phoenix ID: CH68411

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/25/21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	02/26/21	EK	SW6010D
Aluminum	0.050	0.020	mg/L	1	02/26/21	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	02/26/21	EK	SW6010D
Barium	0.467	0.002	mg/L	1	02/26/21	EK	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	02/26/21	EK	SW6010D
Boron	0.09	0.05	mg/L	1	02/26/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	02/26/21	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	02/26/21	EK	SW6010D
Copper	< 0.005	0.005	mg/L	1	02/26/21	EK	SW6010D
Iron	0.011	0.010	mg/L	1	02/26/21	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	02/26/21	RS	SW7470A
Potassium	4.1	0.1	mg/L	1	02/26/21	EK	SW6010D
Magnesium	35.3	0.010	mg/L	1	02/26/21	EK	SW6010D
Manganese	9.39	0.010	mg/L	10	02/26/21	EK	SW6010D
Sodium	713	10	mg/L	100	02/26/21	TH	SW6010D
Nickel	0.015	0.001	mg/L	1	02/26/21	EK	SW6010D
Lead	0.002	0.002	mg/L	1	02/26/21	EK	SW6010D
Antimony	< 0.005	0.005	mg/L	1	02/26/21	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	02/26/21	EK	SW6010D
Tin	< 0.02	0.02	mg/L	1	02/26/21	EK	SW6010D
Thallium	< 0.001	0.001	mg/L	1	02/26/21	RS	SW7010
Vanadium	0.007	0.002	mg/L	1	02/26/21	EK	SW6010D
Zinc	0.069	0.004	mg/L	1	02/26/21	EK	SW6010D
Chloride	1260	60.0	mg/L	20	02/26/21	TB	SM4500CLE-11
Chlorine Residual	< 0.02	0.02	mg/L	1	02/25/21 20:12	MW	SM4500Cl-G-00
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	02/25/21 15:33	ARG	SM3500CRB-11
Nitrite-N	0.017	0.010	mg/L	1	02/25/21 17:33	TB	E353.2
Nitrate-N	0.75	0.02	mg/L	1	02/25/21 17:33	TB	E353.2

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/25/21

Phoenix I.D.: CH68411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
pH	7.90	1.00	pH Units	1	02/26/21 00:03	AP/EG	SM4500-H B-11
Settleable Solids	< 0.10	0.10	ml/L	1	02/26/21 05:25	KDB	SM2540F-11
Total Cyanide	< 0.010	0.010	mg/L	1	02/26/21	O/GD	SW9010C/SW9012B
Nitrogen Tot Kjeldahl	0.32	0.10	mg/L	1	02/27/21	KDB	E351.1
Total Nitrogen	1.09	0.10	mg/L	1	02/27/21	KDB	SM4500NH3/E300.0-11
O&G, Non-polar Material	< 1.4	1.4	mg/L	1	02/26/21	MSF	E1664A
Phosphorus, as P	0.065	0.010	mg/L	1	02/26/21	JR	SM4500PE-11
Total Suspended Solids	< 3.3	3.3	mg/L	0.7	02/26/21	LS	SM 2540D-11
Extraction of ETPH	Completed				02/25/21	P/D/W	SW3510C/SW3520C
Mercury Digestion	Completed				02/26/21		SW7470A
PCB Extraction	Completed				02/25/21	AT/K	SW3510C
Semi-Volatile Extraction	Completed				02/25/21	P/D/W	SW3520C
Total Metals Digestion	Completed				02/25/21	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	02/26/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	02/26/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	71		%	1	02/26/21	JRB	50 - 150 %
% Terphenyl (surr)	85		%	1	02/26/21	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1221	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1232	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1242	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1248	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1254	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1260	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1262	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
PCB-1268	ND	0.48	ug/L	1	02/26/21	AW	SW8082A
QA/QC Surrogates							
% DCBP	105		%	1	02/26/21	AW	30 - 150 %
% DCBP (Confirmation)	108		%	1	02/26/21	AW	30 - 150 %
% TCMX	89		%	1	02/26/21	AW	30 - 150 %
% TCMX (Confirmation)	89		%	1	02/26/21	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	02/26/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/25/21
Phoenix I.D.: CH68411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	02/26/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	02/26/21	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	02/26/21	MH	SW8260C
Acetone	ND	25	ug/L	1	02/26/21	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Benzene	ND	0.70	ug/L	1	02/26/21	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	02/26/21	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	02/26/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	02/26/21	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	02/26/21	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	02/26/21	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	02/26/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Styrene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/25/21
Phoenix I.D.: CH68411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	02/26/21	MH	SW8260C
Toluene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	02/26/21	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	02/26/21	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	02/26/21	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	02/26/21	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	02/26/21	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	02/26/21	MH	70 - 130 %
% Toluene-d8	92		%	1	02/26/21	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	02/26/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	02/26/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	02/26/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	02/26/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	02/26/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	02/26/21	WB	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	02/26/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	02/26/21	WB	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	02/26/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	02/26/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	02/26/21	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	02/26/21	WB	30 - 130 %
% Terphenyl-d14	78		%	1	02/26/21	WB	30 - 130 %

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 2/25/21
Phoenix I.D.: CH68411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

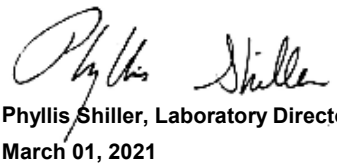
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

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
March 01, 2021
Official Report Release To Follow

Monday, March 01, 2021

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCH68411 - WESTSAMBERLNSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CH68411	MN-WM	Manganese	CT / RSR GA,GAA (mg/kg) / APS Inorganics (SPLP)	9.39	0.010	0.5	0.5	mg/L

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.

Coolant: IPK [ ] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

WCD Temp 1.0 °C Pg of

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

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone: bartoszr@wseinc.com
[x] Email: sirotnakw@wseinc.com

Customer: Weston and Sampson
Address: 273 Dividend Road
Rocky Hill, CT 06067

Project: Berlin Settling Basin
Report to: Ryan Bartosz & Will Sirotnak
Invoice to: Strategic Environmental Services - Paul Saccente
QUOTE #

Project P.C Eversource - 10964163

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Date: 2/25/2021

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	CT 15 Metals + Mo, Mn, K, Na	Sn, B, Al, Be, Cl, Fe	Hex Cr, pH, TSS, NO3, NO2	Total Cyanide	PAH, PCB, ETPH	dil+Grease - HC Fraction	Total Nitrogen, Phosphorus	Sulfide, Solids	VOCs	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 [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
L8411	Dewater - 2/25/21	GW	2/25/21	1000	X	X	X	X	X	X	X	X	X					3	4	1	1	1	1			

Relinquished by:	Accepted by:	Date:	Time:
		2/25/21	1745
		2/25	1414

Comments, Special Requirements or Regulations:

*MS/MSD are considered site samples and will be billed as such in accordance

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

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
[x] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2 [ ] 5-1 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

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

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

State where samples were collected: CT

* SURCHARGE APPLIES

PHOENIX

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

Analysis Report

March 04, 2021

FOR: Attn: Mr Ryan Bartosz
Weston and Sampson
273 Dividend Road
Rocky Hill CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		03/02/21	10:30
Location Code:	WESTSAMBERLNSTR	Received by:	B	03/02/21	14:40
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCH70501
Phoenix ID: CH70501

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/2/21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.001	0.001	mg/L	1	03/03/21	EK	SW6010D
Aluminum	0.023	0.020	mg/L	1	03/03/21	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	03/03/21	EK	SW6010D
Barium	0.373	0.002	mg/L	1	03/03/21	EK	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	03/03/21	EK	SW6010D
Boron	0.05	0.05	mg/L	1	03/03/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	03/03/21	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	03/03/21	EK	SW6010D
Copper	< 0.005	0.005	mg/L	1	03/03/21	EK	SW6010D
Iron	0.029	0.010	mg/L	1	03/03/21	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	03/03/21	RS	SW7470A
Potassium	4.3	0.1	mg/L	1	03/03/21	EK	SW6010D
Magnesium	30.0	0.010	mg/L	1	03/03/21	EK	SW6010D
Manganese	9.03	0.10	mg/L	100	03/03/21	EK	SW6010D
Sodium	833	10	mg/L	100	03/03/21	EK	SW6010D
Nickel	0.011	0.001	mg/L	1	03/03/21	EK	SW6010D
Lead	0.002	0.002	mg/L	1	03/03/21	EK	SW6010D
Antimony	< 0.005	0.005	mg/L	1	03/03/21	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	03/03/21	EK	SW6010D
Tin	< 0.02	0.02	mg/L	1	03/03/21	EK	SW6010D
Thallium	< 0.001	0.001	mg/L	1	03/03/21	RS	SW7010
Vanadium	0.003	0.002	mg/L	1	03/03/21	EK	SW6010D
Zinc	0.061	0.004	mg/L	1	03/03/21	EK	SW6010D
Chloride	1450	60.0	mg/L	20	03/04/21	TB	SM4500CLE-11
Chlorine Residual	< 0.02	0.02	mg/L	1	03/02/21 16:41	MW	SM4500Cl-G-00
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	03/02/21 15:16	ARG	SM3500CRB-11
Nitrite-N	< 0.010	0.010	mg/L	1	03/02/21 20:07	TB	E353.2
Nitrate-N	0.75	0.02	mg/L	1	03/02/21 20:07	TB	E353.2

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/2/21

Phoenix I.D.: CH70501

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
pH	7.96	1.00	pH Units	1	03/03/21 08:09	AP/EG	SM4500-H B-11
Settleable Solids	< 0.10	0.10	ml/L	1	03/03/21 05:00	KDB	SM2540F-11
Total Cyanide	< 0.010	0.010	mg/L	1	03/03/21	O/GD	SW9010C/SW9012B
Nitrogen Tot Kjeldahl	0.35	0.10	mg/L	1	03/04/21	KDB	E351.1
Total Nitrogen	1.10	0.10	mg/L	1	03/04/21	KDB	SM4500NH3/E300.0-11
O&G, Non-polar Material	< 1.4	1.4	mg/L	1	03/04/21	MSF	E1664A
Phosphorus, as P	0.030	0.010	mg/L	1	03/03/21	JR	SM4500PE-11
Total Suspended Solids	< 3.3	3.3	mg/L	0.7	03/03/21	LS	SM 2540D-11
Extraction of ETPH	Completed				03/02/21	P/CG	SW3510C/SW3520C
Mercury Digestion	Completed				03/03/21	KL/ARW	SW7470A
PCB Extraction	Completed				03/02/21	AT/K	SW3510C
Semi-Volatile Extraction	Completed				03/02/21	P/CG	SW3520C
Total Metals Digestion	Completed				03/02/21	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	03/03/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	69		%	1	03/03/21	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	03/03/21	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1221	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1232	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1242	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1248	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1254	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1260	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1262	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
PCB-1268	ND	0.48	ug/L	1	03/03/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	1	03/03/21	SC	30 - 150 %
% DCBP (Confirmation)	101		%	1	03/03/21	SC	30 - 150 %
% TCMX	92		%	1	03/03/21	SC	30 - 150 %
% TCMX (Confirmation)	88		%	1	03/03/21	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/02/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/2/21

Phoenix I.D.: CH70501

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	03/02/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	03/02/21	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/02/21	MH	SW8260C
Acetone	ND	25	ug/L	1	03/02/21	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Benzene	ND	0.70	ug/L	1	03/02/21	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	03/02/21	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	03/02/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/02/21	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	03/02/21	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	03/02/21	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	03/02/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Styrene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/2/21
Phoenix I.D.: CH70501

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/02/21	MH	SW8260C
Toluene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/02/21	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/02/21	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	03/02/21	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	03/02/21	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	03/02/21	MH	70 - 130 %
% Dibromofluoromethane	90		%	1	03/02/21	MH	70 - 130 %
% Toluene-d8	98		%	1	03/02/21	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	03/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	03/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	03/03/21	WB	SW8270D (SIM)
Naphthalene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	03/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	49		%	1	03/03/21	WB	30 - 130 %
% Nitrobenzene-d5	47		%	1	03/03/21	WB	30 - 130 %
% Terphenyl-d14	97		%	1	03/03/21	WB	30 - 130 %

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/2/21
Phoenix I.D.: CH70501

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.

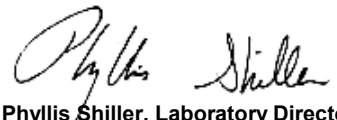
Comments:

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Total Cyanide:
Chlorine was present; Sample was de-chlorinated prior to digestion/analysis. (EPA requires dechlorination at time of sampling.) A sample bias can not be ruled out.

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
March 04, 2021
Official Report Release To Follow

Thursday, March 04, 2021

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCH70501 - WESTSAMBERLNSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CH70501	MN-WM	Manganese	CT / RSR GA,GAA (mg/kg) / APS Inorganics (SPLP)	9.03	0.10	0.5	0.5	mg/L

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.

Coolant: IPK | | ICE | | No | |

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

WC1P Temp 1.4 °C Pg of

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

Data Delivery/Contact Options:
- [ ] Fax:
- [ ] Phone: bartoszr@wseinc.com
- [x] Email: sirotnakw@wseinc.com

Customer: Weston and Sampson
Address: 273 Dividend Road
Rocky Hill, CT 06067

Project: Berlin Settling Basin
Report to: Ryan Bartosz & Will Sirotnak
Invoice to: Strategic Environmental Services - Paul Saccente
QUOTE #

Project P.C Eversource - 10964163

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 3/2/2021

Client Sample - Information - Identification

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	CT 15 Metals + TPH, MW, L, NA	GW, B, Al, Be, CL, FE	Hex Cr, pH, TSS, NO2, NO3	Total Cyanide	PAH, PCB, ETPH	Oil + Grease - HC Fraction	Total Nitrogen + Phosphorus	Renegade Solids	VOCs	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
70501	Dewater - 3/2/21	GW	3/2/2021	1030	X	X	X	X	X	X	X	X	X					3	4	1	1	1	1			

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	3/2/21	2:11
[signature]	[signature]	3/2	1440

Comments, Special Requirements or Regulations:

*MS/MSD are considered site samples and will be billed as such in accordance

Turnaround Time:
- [x] ~~Next Day~~
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] Standard
- [ ] Other

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
- [x] 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

State where samples were collected: CT

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

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

* SURCHARGE APPLIES

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 1692 of 2201

PHOENIX

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

Analysis Report

March 10, 2021

FOR: Attn: Mr Ryan Bartosz
Weston and Sampson
273 Dividend Road
Rocky Hill CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		03/09/21	10:30
Location Code:	WESTSAMBERLNSTR	Received by:	B	03/09/21	16:00
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	10964163				

Laboratory Data

SDG ID: GCH74841
Phoenix ID: CH74841

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/9/21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.001	0.001	mg/L	1	03/10/21	CPP	SW6010D
Aluminum	0.033	0.020	mg/L	1	03/10/21	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	03/10/21	TH	SW6010D
Barium	0.177	0.002	mg/L	1	03/10/21	TH	SW6010D
Beryllium	0.001	0.001	mg/L	1	03/10/21	TH	SW6010D
Boron	0.12	0.05	mg/L	1	03/10/21	TH	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	03/10/21	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	03/10/21	TH	SW6010D
Copper	0.005	0.005	mg/L	1	03/10/21	TH	SW6010D
Iron	0.016	0.010	mg/L	1	03/10/21	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	03/10/21	RS	SW7470A
Potassium	4.9	0.1	mg/L	1	03/10/21	TH	SW6010D
Magnesium	48.4	0.010	mg/L	1	03/10/21	TH	SW6010D
Manganese	8.02	0.010	mg/L	10	03/10/21	CPP	SW6010D
Sodium	991	10	mg/L	100	03/10/21	CPP	SW6010D
Nickel	0.013	0.001	mg/L	1	03/10/21	TH	SW6010D
Lead	< 0.002	0.002	mg/L	1	03/10/21	TH	SW6010D
Antimony	< 0.005	0.005	mg/L	1	03/10/21	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	03/10/21	TH	SW6010D
Tin	< 0.02	0.02	mg/L	1	03/10/21	TH	SW6010D
Thallium	< 0.001	0.001	mg/L	1	03/10/21	RS	SW7010
Vanadium	0.004	0.002	mg/L	1	03/10/21	TH	SW6010D
Zinc	0.071	0.004	mg/L	1	03/10/21	TH	SW6010D
Chloride	2040	60.0	mg/L	20	03/09/21	TB	SM4500CLE-11
Chlorine Residual	< 0.02	0.02	mg/L	1	03/09/21 18:53	MW	SM4500Cl-G-00
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	03/09/21 18:16	MW	SM3500CRB-11
Nitrite-N	< 0.010	0.010	mg/L	1	03/09/21 20:00	TB	E353.2
Nitrate-N	2.81	0.10	mg/L	5	03/09/21 20:04	TB	E353.2

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/9/21

Phoenix I.D.: CH74841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
pH	7.72	1.00	pH Units	1	03/10/21 05:01	AP/EG	SM4500-H B-11
Settleable Solids	< 0.10	0.10	ml/L	1	03/10/21 05:14	KDB	SM2540F-11
Total Cyanide	< 0.010	0.010	mg/L	1	03/10/21	O/GD	SW9010C/SW9012B
Nitrogen Tot Kjeldahl	0.42	0.10	mg/L	1	03/10/21	KDB	E351.1
Total Nitrogen	3.23	0.10	mg/L	1	03/10/21	KDB	SM4500NH3/E300.0-11
O&G, Non-polar Material	< 1.4	1.4	mg/L	1	03/10/21	MSF	E1664A
Phosphorus, as P	0.020	0.010	mg/L	1	03/09/21	MI	SM4500PE-11
Total Suspended Solids	6.0	3.3	mg/L	0.7	03/10/21	LS	SM 2540D-11
Extraction of ETPH	Completed				03/09/21	P/CG	SW3510C/SW3520C
Mercury Digestion	Completed				03/10/21	ARW	SW7470A
PCB Extraction	Completed				03/09/21	C/K	SW3510C
Semi-Volatile Extraction	Completed				03/09/21	P/CG	SW3520C
Total Metals Digestion	Completed				03/09/21	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	03/10/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/10/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	73		%	1	03/10/21	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	03/10/21	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1221	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1232	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1242	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1248	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1254	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1260	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1262	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
PCB-1268	ND	0.48	ug/L	1	03/10/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	121		%	1	03/10/21	SC	30 - 150 %
% DCBP (Confirmation)	111		%	1	03/10/21	SC	30 - 150 %
% TCMX	104		%	1	03/10/21	SC	30 - 150 %
% TCMX (Confirmation)	102		%	1	03/10/21	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/09/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/9/21

Phoenix I.D.: CH74841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	03/09/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	03/09/21	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/09/21	MH	SW8260C
Acetone	ND	25	ug/L	1	03/09/21	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Benzene	ND	0.70	ug/L	1	03/09/21	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	03/09/21	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	03/09/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/21	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	03/09/21	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	03/09/21	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	03/09/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Styrene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/9/21
Phoenix I.D.: CH74841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/09/21	MH	SW8260C
Toluene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/21	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/09/21	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	03/09/21	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	03/09/21	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	03/09/21	MH	70 - 130 %
% Dibromofluoromethane	92		%	1	03/09/21	MH	70 - 130 %
% Toluene-d8	99		%	1	03/09/21	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	03/10/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	03/10/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	03/10/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	03/10/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	03/10/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	03/10/21	WB	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	03/10/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	03/10/21	WB	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	03/10/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	03/10/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	03/10/21	WB	30 - 130 %
% Nitrobenzene-d5	90		%	1	03/10/21	WB	30 - 130 %
% Terphenyl-d14	84		%	1	03/10/21	WB	30 - 130 %

Project ID: BERLIN SETTLING BASIN
Client ID: DEWATER 3/9/21
Phoenix I.D.: CH74841

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

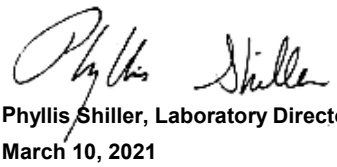
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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
March 10, 2021
Official Report Release To Follow

Wednesday, March 10, 2021

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCH74841 - WESTSAMBERLNSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CH74841	MN-WM	Manganese	CT / RSR GA,GAA (mg/kg) / APS Inorganics (SPLP)	8.02	0.010	0.5	0.5	mg/L

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.

CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

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

WC Coolant: IPK X ICE [ ] No [ ]
Temp 1.4 °C Pg of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone: bartoszr@wseinc.com
[x] Email: sirotnakw@wseinc.com

Customer: Weston and Sampson
Address: 273 Dividend Road
Rocky Hill, CT 06067

Project: Berlin Settling Basin
Report to: Ryan Bartosz & Will Sirotnak
Invoice to: Strategic Environmental Services - Paul Saccente
QUOTE #

Project P.C Eversource - 10964163

This section MUST be completed with Bottle Quantities.

Sampler's Signature
Client Sample - Information - Identification Date: 3/9/21

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	CT 15 Metals + Mg, mw, K, NA	SW, B, Al, Cl, Fe	Hex Cr, pH, TSS, (NO2, NO3)	Total Cyanide	PAH, PCB, ETPH	O/G + Grease - HC Fractions	Total Nitrogen + Phosphorus	8 Hr Leachate Soil	VOCs	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
74841	Dewater - 3/9/21	GW	3/9/21	1030	X	X	X	X	X	X	X	X	X						3	4,1	1,1	1	1	1			

Relinquished by:	Accepted by:	Date:	Time:
	Brett Zaffke	3.9.21	1400
ST	Krystal Hall	3/9/21	16:00

Comments, Special Requirements or Regulations:

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

*MS/MSD are considered site samples and will be billed as such in accordance

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
[x] 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

State where samples were collected: CT

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

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

* SURCHARGE APPLIES

APPENDIX G
BACKFILL ANALYTICAL DATA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 27, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20A0519

Enclosed are results of analyses for samples received by the laboratory on January 13, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/27/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0519

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden Backfill BS-1	20A0519-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - re-running thallium by 6020 - 2/26/2020 mmk

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8081B

Qualifications:

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD
B250059-BS1, B250059-BSD1

SW-846 8260C-D

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

SW-846 8270D-E

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

Hexachlorocyclopentadiene
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

2-Nitroaniline
S045005-CCV1

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

4-Nitrophenol
S045005-CCV1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

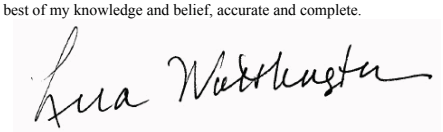
Analyte & Samples(s) Qualified:

2-Nitroaniline
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

4-Nitrophenol
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Toluene	0.0027	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.5	70-130		1/14/20 14:09
Toluene-d8	99.9	70-130		1/14/20 14:09
4-Bromofluorobenzene	101	70-130		1/14/20 14:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1	V-05	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitroaniline	ND	0.34	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitrophenol	ND	0.67	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	83.4	30-130			1/27/20 9:28
Phenol-d6	87.8	30-130			1/27/20 9:28
Nitrobenzene-d5	89.6	30-130			1/27/20 9:28
2-Fluorobiphenyl	115	30-130			1/27/20 9:28
2,4,6-Tribromophenol	84.2	30-130			1/27/20 9:28
p-Terphenyl-d14	98.0	30-130			1/27/20 9:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Aldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
alpha-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
beta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
delta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
gamma-BHC (Lindane) [1]	ND	0.0019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Chlordane [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDD [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDE [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDT [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Dieldrin [1]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan I [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan II [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan sulfate [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin aldehyde [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin ketone [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor epoxide [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Hexachlorobenzene [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Methoxychlor [1]	ND	0.048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Toxaphene [1]	ND	0.095	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.5	30-150		1/15/20 23:52
Decachlorobiphenyl [2]	75.4	30-150		1/15/20 23:52
Tetrachloro-m-xylene [1]	75.1	30-150		1/15/20 23:52
Tetrachloro-m-xylene [2]	67.6	30-150		1/15/20 23:52

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1221 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1232 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1242 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1248 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1254 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1260 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1262 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1268 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		1/23/20 18:05
Decachlorobiphenyl [2]	95.9	30-150		1/23/20 18:05
Tetrachloro-m-xylene [1]	93.6	30-150		1/23/20 18:05
Tetrachloro-m-xylene [2]	95.8	30-150		1/23/20 18:05

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	1/15/20	1/17/20 3:16	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	68.4	50-150		1/17/20 3:16

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Arsenic	2.5	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Barium	25	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Beryllium	0.21	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Chromium	7.4	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Copper	5.7	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Lead	2.9	0.50	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	1/22/20	1/23/20 11:54	CJV
Nickel	5.6	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Silver	ND	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Thallium	ND	0.085	mg/Kg dry	5		SW-846 6020B	2/26/20	2/26/20 19:15	MJH
Vanadium	16	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Zinc	14	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT
Sample Description:
Work Order: 20A0519
Date Received: 1/13/2020
Field Sample #: Herb Holden Backfill BS-1
Sampled: 1/13/2020 07:00
Sample ID: 20A0519-01
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.2		% Wt	1		SM 2540G	1/23/20	1/24/20 14:31	CBM

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250058	30.0	1.00	01/15/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250713	01/23/20

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250477	1.54	50.0	01/21/20

Prep Method: SW-846 3050B-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B253045	1.51	50.0	02/26/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250544	0.612	50.0	01/22/20

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250059	10.8	10.0	01/15/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250482	10.7	10.0	01/21/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B249988	4.57	10.0	01/14/20

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250825	30.6	1.00	01/24/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0421*		mg/Kg wet	0.0500		84.3	70-130			
Surrogate: Toluene-d8	*0.0491*		mg/Kg wet	0.0500		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0514*		mg/Kg wet	0.0500		103	70-130			
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
Acetone	0.170	0.10	mg/Kg wet	0.200		85.1	40-160			
Acrylonitrile	0.0184	0.0060	mg/Kg wet	0.0200		91.8	70-130			
Benzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromodichloromethane	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Bromoform	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromomethane	0.0169	0.010	mg/Kg wet	0.0200		84.7	40-160			V-34
2-Butanone (MEK)	0.180	0.040	mg/Kg wet	0.200		90.2	40-160			
n-Butylbenzene	0.0163	0.0020	mg/Kg wet	0.0200		81.5	70-130			
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Carbon Disulfide	0.179	0.0060	mg/Kg wet	0.200		89.4	70-130			
Carbon Tetrachloride	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0179	0.020	mg/Kg wet	0.0200		89.3	70-130			
Chloroform	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130			
Chloromethane	0.0159	0.010	mg/Kg wet	0.0200		79.7	40-160			
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
4-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130			
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
trans-1,4-Dichloro-2-butene	0.0183	0.0040	mg/Kg wet	0.0200		91.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.0183	0.020	mg/Kg wet	0.0200		91.3	40-160			
1,1-Dichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,2-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		82.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
cis-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
trans-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
1,3-Dichloropropane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
2,2-Dichloropropane	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130			
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Hexachlorobutadiene	0.0208	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		91.1	70-130			
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.0	70-130			
Methylene Chloride	0.0185	0.020	mg/Kg wet	0.0200		92.5	70-130			
4-Methyl-2-pentanone (MIBK)	0.183	0.020	mg/Kg wet	0.200		91.6	40-160			
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.4	70-130			
n-Propylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Tetrachloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Tetrahydrofuran	0.0176	0.010	mg/Kg wet	0.0200		87.8	70-130			V-16
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,2,3-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,1,1-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0181	0.010	mg/Kg wet	0.0200		90.4	40-160			
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0185	0.010	mg/Kg wet	0.0200		92.4	70-130			
1,2,4-Trimethylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
Vinyl Chloride	0.0171	0.010	mg/Kg wet	0.0200		85.7	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		mg/Kg wet	0.0500		82.4	70-130			
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0500*		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-06, V-19
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-06
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.62*		mg/Kg wet	6.67		84.4	30-130				
Surrogate: Nitrobenzene-d5	*2.79*		mg/Kg wet	3.33		83.6	30-130				
Surrogate: 2-Fluorobiphenyl	*3.49*		mg/Kg wet	3.33		105	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.47*		mg/Kg wet	6.67		97.1	30-130				
Surrogate: p-Terphenyl-d14	*3.29*		mg/Kg wet	3.33		98.8	30-130				
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.1	40-140				
Aniline	1.07	0.34	mg/Kg wet	1.67		64.0	40-140			V-05	†
Anthracene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140				
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.2	40-140				
Benzo(a)pyrene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Benzo(b)fluoranthene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140				
Benzo(g,h,i)perylene	1.69	0.17	mg/Kg wet	1.67		101	40-140				
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140				
Bis(2-chloroethoxy)methane	1.39	0.34	mg/Kg wet	1.67		83.2	40-140				
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140				
Bis(2-chloroisopropyl)ether	1.40	0.34	mg/Kg wet	1.67		84.2	40-140				
Bis(2-Ethylhexyl)phthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.67		90.9	40-140				
Butylbenzylphthalate	1.52	0.34	mg/Kg wet	1.67		91.3	40-140				
Carbazole	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
4-Chloroaniline	0.984	0.66	mg/Kg wet	1.67		59.0	40-140				†
4-Chloro-3-methylphenol	1.49	0.66	mg/Kg wet	1.67		89.3	30-130				
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140				
2-Chlorophenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130				
4-Chlorophenylphenylether	1.43	0.34	mg/Kg wet	1.67		86.0	40-140				
Chrysene	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
Dibenz(a,h)anthracene	1.62	0.17	mg/Kg wet	1.67		96.9	40-140				
Dibenzofuran	1.47	0.34	mg/Kg wet	1.67		88.5	40-140				
Di-n-butylphthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
3,3-Dichlorobenzidine	1.23	0.17	mg/Kg wet	1.67		73.9	40-140				†
2,4-Dichlorophenol	1.50	0.34	mg/Kg wet	1.67		90.3	30-130				
Diethylphthalate	1.43	0.34	mg/Kg wet	1.67		85.9	40-140				
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.4	30-130				
Dimethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.9	40-140				
4,6-Dinitro-2-methylphenol	1.80	0.34	mg/Kg wet	1.67		108	30-130			V-06, V-19	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
2,4-Dinitrophenol	2.02	0.66	mg/Kg wet	1.67		121	30-130			V-06	
2,4-Dinitrotoluene	1.67	0.34	mg/Kg wet	1.67		100	40-140				
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		99.3	40-140				
Di-n-octylphthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140				
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140				
Fluorene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140				
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.3	40-140				
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140				
Hexachlorocyclopentadiene	1.28	0.34	mg/Kg wet	1.67		76.5	30-140				
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		75.3	40-140				
Indeno(1,2,3-cd)pyrene	1.77	0.17	mg/Kg wet	1.67		106	40-140				
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.4	40-140				
2-Methylnaphthalene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140				
2-Methylphenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130				
3/4-Methylphenol	1.40	0.34	mg/Kg wet	1.67		83.8	30-130				
Naphthalene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140				
2-Nitroaniline	1.91	0.34	mg/Kg wet	1.67		115	40-140				
3-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.3	40-140				†
4-Nitroaniline	1.55	0.34	mg/Kg wet	1.67		93.0	40-140				
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.6	40-140				
2-Nitrophenol	1.62	0.34	mg/Kg wet	1.67		97.1	30-130				
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.3	10-130				
N-Nitrosodiphenylamine/Diphenylamine	1.55	0.34	mg/Kg wet	1.67		92.8	40-140				
N-Nitrosodi-n-propylamine	1.31	0.34	mg/Kg wet	1.67		78.5	40-140				
Pentachloronitrobenzene	1.64	0.34	mg/Kg wet	1.67		98.3	40-140				
Pentachlorophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130				
Phenanthrene	1.50	0.17	mg/Kg wet	1.67		90.3	40-140				
Phenol	1.31	0.34	mg/Kg wet	1.67		78.7	20-130				
Pyrene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140				
Pyridine	0.690	0.34	mg/Kg wet	1.67		41.4	10-140				†
1,2,4,5-Tetrachlorobenzene	1.41	0.34	mg/Kg wet	1.67		84.8	40-140				
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
2,4,5-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.6	30-130				
2,4,6-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.5	30-130				
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.66*		mg/Kg wet	6.67		84.9	30-130				
Surrogate: Nitrobenzene-d5	*2.92*		mg/Kg wet	3.33		87.7	30-130				
Surrogate: 2-Fluorobiphenyl	*3.54*		mg/Kg wet	3.33		106	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.49*		mg/Kg wet	6.67		97.4	30-130				
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg wet	3.33		94.4	30-130				
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.50	0.17	mg/Kg wet	1.67		89.7	40-140	3.35	30		
Acenaphthylene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140	3.80	30		
Aniline	1.07	0.34	mg/Kg wet	1.67		63.9	40-140	0.0312	50	V-05	† ‡
Anthracene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140	2.39	30		
Benzo(a)anthracene	1.52	0.17	mg/Kg wet	1.67		91.4	40-140	3.50	30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	1.71	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.5	40-140	1.84	30		
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140	1.86	30		
Benzo(k)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	2.13	30		
Bis(2-chloroethoxy)methane	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	1.22	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	0.00	30		
Bis(2-chloroisopropyl)ether	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	1.58	30		
Bis(2-Ethylhexyl)phthalate	1.50	0.34	mg/Kg wet	1.67		90.0	40-140	1.77	30		
4-Bromophenylphenylether	1.59	0.34	mg/Kg wet	1.67		95.1	40-140	4.58	30		
Butylbenzylphthalate	1.55	0.34	mg/Kg wet	1.67		93.0	40-140	1.82	30		
Carbazole	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	2.24	30		
4-Chloroaniline	0.998	0.66	mg/Kg wet	1.67		59.9	40-140	1.45	30		†
4-Chloro-3-methylphenol	1.50	0.66	mg/Kg wet	1.67		90.1	30-130	0.869	30		
2-Chloronaphthalene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	3.93	30		
2-Chlorophenol	1.42	0.34	mg/Kg wet	1.67		84.9	30-130	3.47	30		
4-Chlorophenylphenylether	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	3.81	30		
Chrysene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	3.41	30		
Dibenz(a,h)anthracene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140	2.73	30		
Dibenzofuran	1.52	0.34	mg/Kg wet	1.67		91.3	40-140	3.09	30		
Di-n-butylphthalate	1.50	0.34	mg/Kg wet	1.67		89.7	40-140	1.41	30		
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	2.96	30		† ‡
2,4-Dichlorophenol	1.55	0.34	mg/Kg wet	1.67		93.3	30-130	3.29	30		
Diethylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	1.52	30		
2,4-Dimethylphenol	1.39	0.34	mg/Kg wet	1.67		83.5	30-130	2.60	30		
Dimethylphthalate	1.45	0.34	mg/Kg wet	1.67		86.9	40-140	2.40	50		
4,6-Dinitro-2-methylphenol	1.86	0.34	mg/Kg wet	1.67		112	30-130	3.52	50	V-06, V-19	
2,4-Dinitrophenol	2.12	0.66	mg/Kg wet	1.67		127	30-130	4.75	50	V-06	
2,4-Dinitrotoluene	1.70	0.34	mg/Kg wet	1.67		102	40-140	2.00	30		
2,6-Dinitrotoluene	1.69	0.34	mg/Kg wet	1.67		101	40-140	2.17	30		
Di-n-octylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	0.206	30		
Fluoranthene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	3.35	30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	3.16	30		
Hexachlorobenzene	1.53	0.34	mg/Kg wet	1.67		92.0	40-140	4.11	30		
Hexachlorobutadiene	1.38	0.34	mg/Kg wet	1.67		82.5	40-140	3.91	30		
Hexachlorocyclopentadiene	1.34	0.34	mg/Kg wet	1.67		80.4	30-140	4.97	50		
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	1.50	50		
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.67		107	40-140	0.995	50		
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	0.116	30		
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140	3.45	30		
2-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.4	30-130	3.71	30		
3/4-Methylphenol	1.43	0.34	mg/Kg wet	1.67		85.7	30-130	2.20	30		
Naphthalene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	2.57	30		
2-Nitroaniline	1.87	0.34	mg/Kg wet	1.67		112	40-140	2.17	30		
3-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	3.11	30		†
4-Nitroaniline	1.58	0.34	mg/Kg wet	1.67		95.0	40-140	2.15	30		
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	0.239	30		
2-Nitrophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130	4.03	30		
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.5	10-130	0.168	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.58	0.34	mg/Kg wet	1.67		94.6	40-140	1.94	30		
N-Nitrosodi-n-propylamine	1.33	0.34	mg/Kg wet	1.67		80.0	40-140	1.94	30		
Pentachloronitrobenzene	1.70	0.34	mg/Kg wet	1.67		102	40-140	3.65	30		
Pentachlorophenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130	4.02	50		
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140	2.28	30		
Phenol	1.35	0.34	mg/Kg wet	1.67		80.8	20-130	2.58	30		
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140	2.84	30		
Pyridine	0.713	0.34	mg/Kg wet	1.67		42.8	10-140	3.33	50		†
1,2,4,5-Tetrachlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.8	40-140	4.58	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20						
1,2,4-Trichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	3.36	30	
2,4,5-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.0	30-130	3.66	30	
2,4,6-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.4	30-130	4.24	50	
Surrogate: 2-Fluorophenol	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Phenol-d6	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Nitrobenzene-d5	*2.90*		mg/Kg wet	3.33		87.0	30-130			
Surrogate: 2-Fluorobiphenyl	*3.65*		mg/Kg wet	3.33		110	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.81*		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	*3.25*		mg/Kg wet	3.33		97.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
Blank (B250059-BLK1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.151*		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.139*		mg/Kg wet	0.200		69.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS (B250059-BS1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
alpha-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
gamma-Chlordane	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
gamma-Chlordane [2C]	0.086	0.0050	mg/Kg wet	0.100		86.1	40-140			
Alachlor	0.087	0.020	mg/Kg wet	0.100		87.0	40-140			
Alachlor [2C]	0.091	0.020	mg/Kg wet	0.100		90.9	40-140			
Aldrin	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140			
Aldrin [2C]	0.082	0.0050	mg/Kg wet	0.100		82.5	40-140			
alpha-BHC	0.087	0.0050	mg/Kg wet	0.100		86.9	40-140			
alpha-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140			
beta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
beta-BHC [2C]	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140			
delta-BHC	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		81.2	40-140			
gamma-BHC (Lindane)	0.078	0.0020	mg/Kg wet	0.100		77.9	40-140			
gamma-BHC (Lindane) [2C]	0.078	0.0020	mg/Kg wet	0.100		78.3	40-140			
4,4'-DDD	0.096	0.0040	mg/Kg wet	0.100		96.1	40-140			V-06
4,4'-DDD [2C]	0.091	0.0040	mg/Kg wet	0.100		91.2	40-140			
4,4'-DDE	0.090	0.0040	mg/Kg wet	0.100		90.3	40-140			
4,4'-DDE [2C]	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140			
4,4'-DDT	0.093	0.0040	mg/Kg wet	0.100		92.8	40-140			
4,4'-DDT [2C]	0.085	0.0040	mg/Kg wet	0.100		84.6	40-140			
Dieldrin	0.087	0.0040	mg/Kg wet	0.100		87.4	40-140			
Dieldrin [2C]	0.084	0.0040	mg/Kg wet	0.100		84.4	40-140			
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140			
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.1	40-140			
Endosulfan II [2C]	0.087	0.0080	mg/Kg wet	0.100		86.7	40-140			
Endosulfan Sulfate	0.096	0.0080	mg/Kg wet	0.100		96.0	40-140			
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		87.5	40-140			
Endrin	0.092	0.0080	mg/Kg wet	0.100		92.0	40-140			
Endrin [2C]	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140			
Endrin Aldehyde	0.090	0.0080	mg/Kg wet	0.100		90.3	40-140			
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.6	40-140			
Endrin Ketone	0.089	0.0080	mg/Kg wet	0.100		89.4	40-140			
Endrin Ketone [2C]	0.084	0.0080	mg/Kg wet	0.100		84.4	40-140			
Heptachlor	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
Heptachlor [2C]	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140			
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140			
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
Hexachlorobenzene	0.087	0.0060	mg/Kg wet	0.100		86.9	40-140			
Hexachlorobenzene [2C]	0.081	0.0060	mg/Kg wet	0.100		81.1	40-140			
Methoxychlor	0.092	0.050	mg/Kg wet	0.100		91.8	40-140			
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.100		88.6	40-140			
Surrogate: Decachlorobiphenyl	*0.166*		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		72.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS Dup (B250059-BSD1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.077	0.0050	mg/Kg wet	0.100		77.1	40-140	8.06	30	
alpha-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	7.80	30	
gamma-Chlordane	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.04	30	
gamma-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		79.4	40-140	8.09	30	
Alachlor	0.080	0.020	mg/Kg wet	0.100		80.3	40-140	8.03	30	
Alachlor [2C]	0.081	0.020	mg/Kg wet	0.100		80.7	40-140	11.9	30	
Aldrin	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.36	30	
Aldrin [2C]	0.076	0.0050	mg/Kg wet	0.100		76.0	40-140	8.14	30	
alpha-BHC	0.084	0.0050	mg/Kg wet	0.100		84.5	40-140	2.90	30	
alpha-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		73.3	40-140	4.16	30	
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140	5.26	30	
beta-BHC [2C]	0.079	0.0050	mg/Kg wet	0.100		79.0	40-140	5.34	30	
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140	3.08	30	
delta-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	4.92	30	
gamma-BHC (Lindane)	0.075	0.0020	mg/Kg wet	0.100		74.7	40-140	4.15	30	
gamma-BHC (Lindane) [2C]	0.074	0.0020	mg/Kg wet	0.100		74.4	40-140	5.11	30	
4,4'-DDD	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140	6.93	30	V-06
4,4'-DDD [2C]	0.084	0.0040	mg/Kg wet	0.100		83.7	40-140	8.58	30	
4,4'-DDE	0.083	0.0040	mg/Kg wet	0.100		83.4	40-140	7.90	30	
4,4'-DDE [2C]	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	8.81	30	
4,4'-DDT	0.087	0.0040	mg/Kg wet	0.100		86.5	40-140	6.99	30	
4,4'-DDT [2C]	0.078	0.0040	mg/Kg wet	0.100		78.1	40-140	7.98	30	
Dieldrin	0.081	0.0040	mg/Kg wet	0.100		81.2	40-140	7.43	30	
Dieldrin [2C]	0.077	0.0040	mg/Kg wet	0.100		76.8	40-140	9.40	30	
Endosulfan I	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	7.73	30	
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140	7.90	30	
Endosulfan II	0.084	0.0080	mg/Kg wet	0.100		83.7	40-140	7.44	30	
Endosulfan II [2C]	0.080	0.0080	mg/Kg wet	0.100		79.9	40-140	8.19	30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		88.7	40-140	7.94	30	
Endosulfan Sulfate [2C]	0.080	0.0080	mg/Kg wet	0.100		79.8	40-140	9.14	30	
Endrin	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140	7.10	30	
Endrin [2C]	0.081	0.0080	mg/Kg wet	0.100		81.2	40-140	8.30	30	
Endrin Aldehyde	0.083	0.0080	mg/Kg wet	0.100		82.7	40-140	8.76	30	
Endrin Aldehyde [2C]	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140	10.6	30	
Endrin Ketone	0.083	0.0080	mg/Kg wet	0.100		83.1	40-140	7.28	30	
Endrin Ketone [2C]	0.078	0.0080	mg/Kg wet	0.100		77.9	40-140	8.08	30	
Heptachlor	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	6.65	30	
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		74.4	40-140	6.67	30	
Heptachlor Epoxide	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140	7.60	30	
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		74.9	40-140	7.89	30	
Hexachlorobenzene	0.080	0.0060	mg/Kg wet	0.100		80.4	40-140	7.72	30	
Hexachlorobenzene [2C]	0.074	0.0060	mg/Kg wet	0.100		74.3	40-140	8.77	30	
Methoxychlor	0.084	0.050	mg/Kg wet	0.100		84.5	40-140	8.27	30	
Methoxychlor [2C]	0.081	0.050	mg/Kg wet	0.100		80.9	40-140	9.15	30	
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg wet	0.200		70.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.151*		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.132*		mg/Kg wet	0.200		66.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250482 - SW-846 3540C										
Blank (B250482-BLK1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.1	30-150			
LCS (B250482-BS1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.7	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.0	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.7	40-140			
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg wet	0.200		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		94.8	30-150			
LCS Dup (B250482-BSD1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	2.05	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.7	40-140	1.47	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	2.06	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	0.313	30	
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.189*		mg/Kg wet	0.200		94.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250058 - SW-846 3546										
Blank (B250058-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*1.71*		mg/Kg wet	3.33		51.3	50-150			
LCS (B250058-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	24.9	10	mg/Kg wet	33.3		74.7	60-120			
Surrogate: 2-Fluorobiphenyl	*1.90*		mg/Kg wet	3.33		56.9	50-150			
LCS Dup (B250058-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	25.7	10	mg/Kg wet	33.3		77.1	60-120	3.12	30	
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/Kg wet	3.33		58.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Blank (B250477-BLK1)				Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B250477-BS1)				Prepared: 01/21/20 Analyzed: 01/22/20						
Antimony	245	4.9	mg/Kg wet	147		166	4.2-196.6			
Arsenic	148	4.9	mg/Kg wet	143		103	83.2-117.5			
Barium	405	4.9	mg/Kg wet	415		97.5	82.7-117.6			
Beryllium	178	0.49	mg/Kg wet	179		99.4	83.2-117.3			
Cadmium	55.2	0.49	mg/Kg wet	56.2		98.3	82.9-117.3			
Chromium	97.8	0.98	mg/Kg wet	101		96.8	82.4-116.8			
Copper	63.3	0.98	mg/Kg wet	63.1		100	84.2-115.8			
Lead	133	1.5	mg/Kg wet	125		106	82.4-116.8			
Nickel	110	0.98	mg/Kg wet	108		102	82.9-117.6			
Selenium	78.1	9.8	mg/Kg wet	77.9		100	79.3-120.7			
Silver	34.1	0.98	mg/Kg wet	34.3		99.4	81-119.2			
Thallium	115	4.9	mg/Kg wet	113		101	80.8-118.6			
Vanadium	80.6	2.0	mg/Kg wet	83.7		96.3	79.8-120.7			
Zinc	242	2.0	mg/Kg wet	240		101	80.8-118.8			
LCS Dup (B250477-BSD1)				Prepared & Analyzed: 01/21/20						
Antimony	218	4.9	mg/Kg wet	147		149	4.2-196.6	11.4	30	
Arsenic	132	4.9	mg/Kg wet	143		92.5	83.2-117.5	11.0	30	
Barium	378	4.9	mg/Kg wet	415		91.2	82.7-117.6	6.75	20	
Beryllium	175	0.49	mg/Kg wet	179		97.8	83.2-117.3	1.58	30	
Cadmium	49.7	0.49	mg/Kg wet	56.2		88.4	82.9-117.3	10.6	20	
Chromium	93.2	0.98	mg/Kg wet	101		92.3	82.4-116.8	4.74	30	
Copper	60.8	0.98	mg/Kg wet	63.1		96.4	84.2-115.8	3.96	30	
Lead	113	1.5	mg/Kg wet	125		90.8	82.4-116.8	15.8	30	
Nickel	103	0.98	mg/Kg wet	108		95.0	82.9-117.6	7.04	30	
Selenium	76.5	9.8	mg/Kg wet	77.9		98.3	79.3-120.7	2.06	30	
Silver	35.1	0.98	mg/Kg wet	34.3		102	81-119.2	3.07	30	
Thallium	105	4.9	mg/Kg wet	113		93.0	80.8-118.6	8.62	30	
Vanadium	83.2	2.0	mg/Kg wet	83.7		99.4	79.8-120.7	3.14	30	
Zinc	227	2.0	mg/Kg wet	240		94.6	80.8-118.8	6.41	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Duplicate (B250477-DUP1)	**Source: 20A0519-01**			Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg dry		ND			NC	35	
Arsenic	2.19	1.7	mg/Kg dry		2.52			14.3	35	
Barium	22.7	1.7	mg/Kg dry		25.2			10.3	35	
Beryllium	0.175	0.17	mg/Kg dry		0.213			20.0	35	
Cadmium	ND	0.17	mg/Kg dry		ND			NC	35	
Chromium	6.58	0.34	mg/Kg dry		7.41			12.0	35	
Copper	5.23	0.34	mg/Kg dry		5.75			9.38	35	
Lead	2.34	0.51	mg/Kg dry		2.86			20.0	35	
Nickel	5.40	0.34	mg/Kg dry		5.63			4.08	35	
Selenium	ND	3.4	mg/Kg dry		ND			NC	35	
Silver	ND	0.34	mg/Kg dry		ND			NC	35	
Thallium	ND	1.7	mg/Kg dry		ND			NC	35	
Vanadium	12.2	0.68	mg/Kg dry		16.1			27.8	35	
Zinc	13.1	0.68	mg/Kg dry		13.8			4.98	35	
Matrix Spike (B250477-MS1)	**Source: 20A0519-01**			Prepared & Analyzed: 01/21/20						
Antimony	15.1	1.7	mg/Kg dry	17.1	ND	88.3	75-125			
Arsenic	17.7	1.7	mg/Kg dry	17.1	2.52	88.7	75-125			
Barium	40.2	1.7	mg/Kg dry	17.1	25.2	87.6	75-125			
Beryllium	17.7	0.17	mg/Kg dry	17.1	0.213	102	75-125			
Cadmium	15.7	0.17	mg/Kg dry	17.1	ND	91.9	75-125			
Chromium	23.4	0.34	mg/Kg dry	17.1	7.41	93.6	75-125			
Copper	39.5	0.34	mg/Kg dry	34.2	5.75	98.8	75-125			
Lead	18.6	0.51	mg/Kg dry	17.1	2.86	91.9	75-125			
Nickel	22.4	0.34	mg/Kg dry	17.1	5.63	98.4	75-125			
Selenium	16.8	3.4	mg/Kg dry	17.1	ND	98.1	75-125			
Silver	17.6	0.34	mg/Kg dry	17.1	ND	103	75-125			
Thallium	17.3	1.7	mg/Kg dry	17.1	ND	101	75-125			
Vanadium	31.1	0.68	mg/Kg dry	17.1	16.1	88.0	75-125			
Zinc	46.5	0.68	mg/Kg dry	34.2	13.8	95.7	75-125			
Reference (B250477-SRM1) MRL Check				Prepared & Analyzed: 01/21/20						
Lead	0.440	0.51	mg/Kg wet	0.506		86.8	80-120			
Batch B250544 - SW-846 7471										
Blank (B250544-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B250544-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.13	0.39	mg/Kg wet	7.61		93.7	72.7-127.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250544 - SW-846 7471										
LCS Dup (B250544-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.26	0.38	mg/Kg wet	7.61		95.5	72.7-127.3	1.86	20	
Duplicate (B250544-DUP1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg dry		ND			NC	35	
Matrix Spike (B250544-MS1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	0.342	0.025	mg/Kg dry	0.331	ND	103	75-125			
Batch B253045 - SW-846 3050B										
Blank (B253045-BLK1)				Prepared & Analyzed: 02/26/20						
Thallium	ND	0.083	mg/Kg wet							
LCS (B253045-BS1)				Prepared & Analyzed: 02/26/20						
Thallium	117	0.99	mg/Kg wet	113		103	80.8-118.6			
LCS Dup (B253045-BSD1)				Prepared & Analyzed: 02/26/20						
Thallium	117	1.0	mg/Kg wet	113		103	80.8-118.6	0.263	30	
Duplicate (B253045-DUP1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	ND	0.085	mg/Kg dry		ND			NC	35	
Matrix Spike (B253045-MS1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	17.3	0.34	mg/Kg dry	17.0	ND	102	75-125			

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BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM1	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.63
Endrin [1]	1.64

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.41
Endrin [2]	1.32

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM3	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.02
Endrin [1]	2.10

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.87
Endrin [2]	2.14

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM4	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.97
Endrin [1]	2.64

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BREAKDOWN REPORT

Lab Sample ID:	**S044630-PEM4**	**Analyzed:**	**01/15/2020**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	3.73
Endrin [2]	2.59

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.172	7.143	7.203	0.096	
	2	7.198	7.169	7.229	0.091	5.4
4,4'-DDE	1	6.735	6.705	6.765	0.090	
	2	6.771	6.741	6.801	0.090	0.0
4,4'-DDT	1	7.384	7.355	7.415	0.093	
	2	7.436	7.406	7.466	0.085	9.0
Alachlor	1	6.176	6.145	6.205	0.087	
	2	5.962	5.932	5.992	0.091	4.5
Aldrin	1	6.080	6.051	6.111	0.082	
	2	6.022	5.992	6.052	0.082	0.0
alpha-BHC	1	5.382	5.352	5.412	0.087	
	2	5.336	5.305	5.365	0.076	13.5
alpha-Chlordane	1	6.677	6.647	6.707	0.084	
	2	6.641	6.611	6.671	0.085	1.2
beta-BHC	1	5.630	5.601	5.661	0.084	
	2	5.597	5.567	5.627	0.083	1.2
delta-BHC	1	5.743	5.714	5.774	0.087	
	2	5.778	5.747	5.807	0.081	7.1
Dieldrin	1	6.946	6.917	6.977	0.087	
	2	6.875	6.845	6.905	0.084	3.5
Endosulfan I	1	6.772	6.743	6.803	0.081	
	2	6.678	6.648	6.708	0.082	1.2
Endosulfan II	1	7.283	7.253	7.313	0.090	
	2	7.257	7.227	7.287	0.087	3.4
Endosulfan Sulfate	1	7.937	7.906	7.966	0.096	
	2	7.731	7.702	7.762	0.087	9.8
Endrin	1	7.116	7.086	7.146	0.092	
	2	7.096	7.067	7.127	0.088	4.4
Endrin Aldehyde	1	7.601	7.572	7.632	0.090	
	2	7.515	7.485	7.545	0.086	4.6
Endrin Ketone	1	8.132	8.103	8.163	0.089	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.121	8.092	8.152	0.084	5.8
gamma-BHC (Lindane)	1	5.576	5.547	5.607	0.078	
	2	5.545	5.515	5.575	0.078	0.0
gamma-Chlordane	1	6.582	6.552	6.612	0.081	
	2	6.538	6.509	6.569	0.086	6.0
Heptachlor	1	5.881	5.852	5.912	0.083	
	2	5.816	5.786	5.846	0.080	3.7
Heptachlor Epoxide	1	6.493	6.464	6.524	0.082	
	2	6.406	6.376	6.436	0.081	1.2
Hexachlorobenzene	1	5.278	5.249	5.309	0.087	
	2	5.253	5.223	5.283	0.081	7.1
Methoxychlor	1	7.769	7.738	7.798	0.092	
	2	7.979	7.950	8.010	0.089	3.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.173	7.143	7.203	0.090	
	2	7.198	7.169	7.229	0.084	6.9
4,4'-DDE	1	6.735	6.705	6.765	0.083	
	2	6.771	6.741	6.801	0.082	1.2
4,4'-DDT	1	7.384	7.355	7.415	0.087	
	2	7.436	7.406	7.466	0.078	10.9
Alachlor	1	6.176	6.145	6.205	0.080	
	2	5.962	5.932	5.992	0.081	1.2
Aldrin	1	6.081	6.051	6.111	0.075	
	2	6.022	5.992	6.052	0.076	1.3
alpha-BHC	1	5.382	5.352	5.412	0.084	
	2	5.335	5.305	5.365	0.073	15.2
alpha-Chlordane	1	6.676	6.647	6.707	0.077	
	2	6.641	6.611	6.671	0.079	2.6
beta-BHC	1	5.631	5.601	5.661	0.079	
	2	5.597	5.567	5.627	0.079	0.0
delta-BHC	1	5.744	5.714	5.774	0.084	
	2	5.778	5.747	5.807	0.077	8.7
Dieldrin	1	6.946	6.917	6.977	0.081	
	2	6.875	6.845	6.905	0.077	5.1
Endosulfan I	1	6.773	6.743	6.803	0.075	
	2	6.678	6.648	6.708	0.076	1.3
Endosulfan II	1	7.283	7.253	7.313	0.084	
	2	7.256	7.227	7.287	0.080	4.9
Endosulfan Sulfate	1	7.936	7.906	7.966	0.089	
	2	7.731	7.702	7.762	0.080	10.7
Endrin	1	7.116	7.086	7.146	0.086	
	2	7.096	7.067	7.127	0.081	6.0
Endrin Aldehyde	1	7.601	7.572	7.632	0.083	
	2	7.515	7.485	7.545	0.077	7.5
Endrin Ketone	1	8.132	8.103	8.163	0.083	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.122	8.092	8.152	0.078	6.2
gamma-BHC (Lindane)	1	5.577	5.547	5.607	0.075	
	2	5.545	5.515	5.575	0.074	1.3
gamma-Chlordane	1	6.582	6.552	6.612	0.075	
	2	6.538	6.509	6.569	0.079	5.2
Heptachlor	1	5.881	5.852	5.912	0.077	
	2	5.816	5.786	5.846	0.074	4.0
Heptachlor Epoxide	1	6.494	6.464	6.524	0.076	
	2	6.406	6.376	6.436	0.075	1.3
Hexachlorobenzene	1	5.279	5.249	5.309	0.080	
	2	5.253	5.223	5.283	0.074	7.8
Methoxychlor	1	7.768	7.738	7.798	0.084	
	2	7.980	7.950	8.010	0.081	4.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250482-BS1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250482-BSD1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020B in Soil	
Thallium	VA,NY,NH,NC,ME
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8081B in Water	
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8260C-D in Soil	
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH

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Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

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Analyte	Certifications
SW-846 8270D-E in Water	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test ANALYTICAL LABORATORY

HAF

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http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

Strategic Environmental Services, Inc.	
Address:	362 Putnam Hill Rd; Sutton, MA 01590
Phone:	508-757-7782
	Eversource Berlin
Project Location:	Berlin CT
Project Number:	
Project Manager:	Paul Saccente
Con-Test Quote Name/Number:	
Invoice Recipient:	accountsreceivable@strategic-es.com
Sampled By:	

7-Day ☐ 10-Day ☑ Due Date:
PFAS 10-Day (std) ☐
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: te@strategic-es.com
Fax To #:

○ Field Filtered
○ Lab to Filter
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	CT DEP ETPH	VOC 8261	SVOC 8270	CT RSR 15 Metals 6010 7471	Pesticides 8081	PCB 8082 Soxhlet
1	Herb Holden Backfill BS-1	1/13/20 7am		Comp	S	L						x	x	x	x	x	x

[2] Preservation Code

Courier Use Only

Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 1/13/20 12[illegible]	
Received by: (signature)	Date/Time: 1/13/20 123	
Relinquished by: (signature)	Date/Time: 1/13/20 1[illegible]	
Received by: (signature)	Date/Time: 1/13/20 1640	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Client Comments: 1) Run TCLP if exceeds 20X Rule 2) See Section 202 Chemical Properties of Soil Materials on attachment for more detail

GA Mobility; Residential DEC

Special Requirements

☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:
Frozen 1/13/20 16:40 DI

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

GCE 65215

Paul Saccente

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:52 AM
To: jake@ondrickmr.com
Cc: Paul Saccente
Subject: RE: SES Loam Quote

Se Also:

Non-Polluted Soil:
Non-Polluted Soil shall be granular, well graded friable soil; free of sediment, rubbish, debris, wood, glass, concrete, metal, bricks, ice, snow, tree stumps, roots, clay, organic matter and any non-soil deleterious material; with 25 percent or less passing the No. 200 sieve; no stone greater than two-third (2/3) loose lift thickness, or three (3) inches, whichever is smaller. Soil material acceptable for use shall be classified as GM, GC, SM or SC according to the Unified Soil Classification System and shall have a plasticity index of less than 10.

2.02 CHEMICAL PROPERTIES OF SOIL MATERIALS
A. All soil materials must meet the following specifications for chemical concentrations to be classified as Non-Polluted Soil:
1. Soil defined as unconsolidated geologic material overlying bedrock, but not including sediment, and **not affected by a release of a substance**. A Release is defined as any discharge, spillage, uncontrolled loss, seepage, filtration, leakage, injection, escape, dumping, pumping, pouring, emitting, emptying, or disposal of a substance. A Substance is defined as an element, compound or material, which when added to air, water or soil or sediment may alter the physical, chemical, biological or characteristic of such air, water, soil or sediment. Sediment is defined as unconsolidated material occurring in a stream channel, estuarine waters, or marine waters. (Reference Connecticut Regulation of State Agencies 22a-133k-1(a) – Definitions)
2. No detectable concentrations of petroleum hydrocarbons as determined by CT DEEP ETPH Method with laboratory reporting limits less than the lower of the Analytical Detection Limit (ADL), the Residential Direct Exposure Criteria (RDEC) or the GA PMC;
3. No detectable concentrations of VOCs by EPA Method 8261 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
BERLIN SETTLING BASIN REMEDIATION PROJECT
BERLIN, CONNECTICUT
06/24/2019 02 00 00-7
4. No detectable concentrations of SVOCs by EPA Method 8270 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
5. Concentrations of RSR 15 metals by EPA Methods 6010 and 7471 less than the lower of the High Range Background Concentration listed in the Background Metals Concentrations table below with reporting limits less than the lower of the High Range Background Concentration and the GAPMC by SPLP Method for each metal;
6. No detectable concentrations of pesticides by EPA Method 8081 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;

1

GCE65215

and
7. No detectable concentrations of PCBs by EPA Method 8082 with laboratory reporting limits less than the lower of the ADL, the RDEC, or the GAPMC by SPLP Method.
8. The RDEC is the Residential Criteria provided in Appendix A and the GA, GAA Pollutant Mobility Criteria (GAPMC) provided in Appendix B of the Regulations of Connecticut State Agencies, Section 22a-133k-1 through -3, inclusive.
9. The Contractor shall analyze soil for each analyte for which an RDEC and GAPMC is provided.

Background Metals Concentrations

Metal	**High Range Background Concentration (mg/kg)**
Antimony	ND
Arsenic	5.4
Barium	800
Beryllium	3.5
Cadmium	0.3
Chromium	8.5
Copper	93
Lead	32
Mercury	0.08
Nickel	40
Selenium	49
Silver	0.83
Thallium	1
Vanadium	157
Zinc	130

ND – Not detected above analytical detection limits.

Ryan Gadoury
Strategic Environmental Services, Inc.
362 Putnam Hill Road
Sutton, MA 01590
Office: 508.757.7782 x 119
Cell: (508)-612-2339
Fax.: 508.363.2346

STRATEGIC ENVIRONMENTAL SERVICES

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:46 AM
To: jake@ondrickmr.com
Cc: Paul Saccente <psaccente@strategic-es.com>
Subject: SES Loam Quote

Thanks again Jake,

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Stratego

Received By MP Date 1/13/20 Time 16:40

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	1
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	2	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 1/13/20 16:40 DI	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D011620.SEC\D0116105.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0116105.D
Data File Path C:\MSDCHEM\4\DATA\D011620.SEC\
Operator RMW
Date Acquired 1/17/1920 2:56
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.65	8520422	9562705	11
C-10	2.29	8787893	9562705	8
C-12	3.21	9099347	9562705	5
C-14	3.92	9391983	9562705	2
C-16	4.53	9561880	9562705	0
C-18	5.07	9707491	9562705	-2
C-20	5.67	9814600	9562705	-3
C-22	6.41	9906304	9562705	-4
C-24	7.25	9971589	9562705	-4
C-26	8.05	9988553	9562705	-4
C-28	8.79	10024972	9562705	-5
C-30	9.47	10056411	9562705	-5
C-32	10.10	9765395	9562705	-2
C-34	10.69	9602263	9562705	0
C-36	11.26	9241478	9562705	3

Samples

20A0519-01
20A0580-01
20A0580-02

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20A0519

Laboratory Sample ID(s):

20A0519-01

Sample Date(s):

01/13/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 6010D, SW-846 7471B, SW-846 8081B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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:  **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **01/27/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
020A	02 00 00	01/03/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	3/4" Crushed Stone (gradation)				D-4, Det. 3	1	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christoper Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: January 8, 2020

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 020A **ITEM NO.:** 1

DESCRIPTION: 3/4" Crush Stone Gradation

RECOMMENDED ACTION:

- [X] 1 - Furnish As Submitted
- [ ] 2 - Furnish As Noted
- [ ] 3 - Revise and Resubmit
- [ ] 4 - Rejected
- [ ] 5 - Acknowledgement
- [ ] See Attached Remarks
- [ ] See Individual Item Actions Below

REMARKS:

1.

This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

GRAIN SIZE DISTRIBUTION TEST DATA

9/20/2019

Client: : Herb Holden Trucking
Project: : In House Testing
Location: Onsite Quarry
Depth: N/A
Material Description: 3/4" Crushed Stone
Liquid Limit: N/A
USCS Classification: GP
Testing Remarks: ASTM C 136, C 117 (Material meet the D.O.T spec)
Tested by: IC
Material specification: D.O.T. M.01.01 # 6

Date: 09/20/2019

Date: 09/20/2019
Sample Number: 657-19

Plastic Limit: N/A
AASHTO Classification: N/A
Checked by: HC

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 2882.40
Tare Wt. = 0.00
Minus #200 from wash = 2.5%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
2955.60	0.00	0.00	1"	0.00	100.0	0.0	100.0	100.0	
			3/4"	85.50	97.1	2.9	90.0	100.0	
			1/2"	1838.30	37.8	62.2	20.0	55.0	
			3/8"	2545.00	13.9	86.1	0.0	15.0	
			#4	2881.80	2.5	97.5	0.0	5.0	

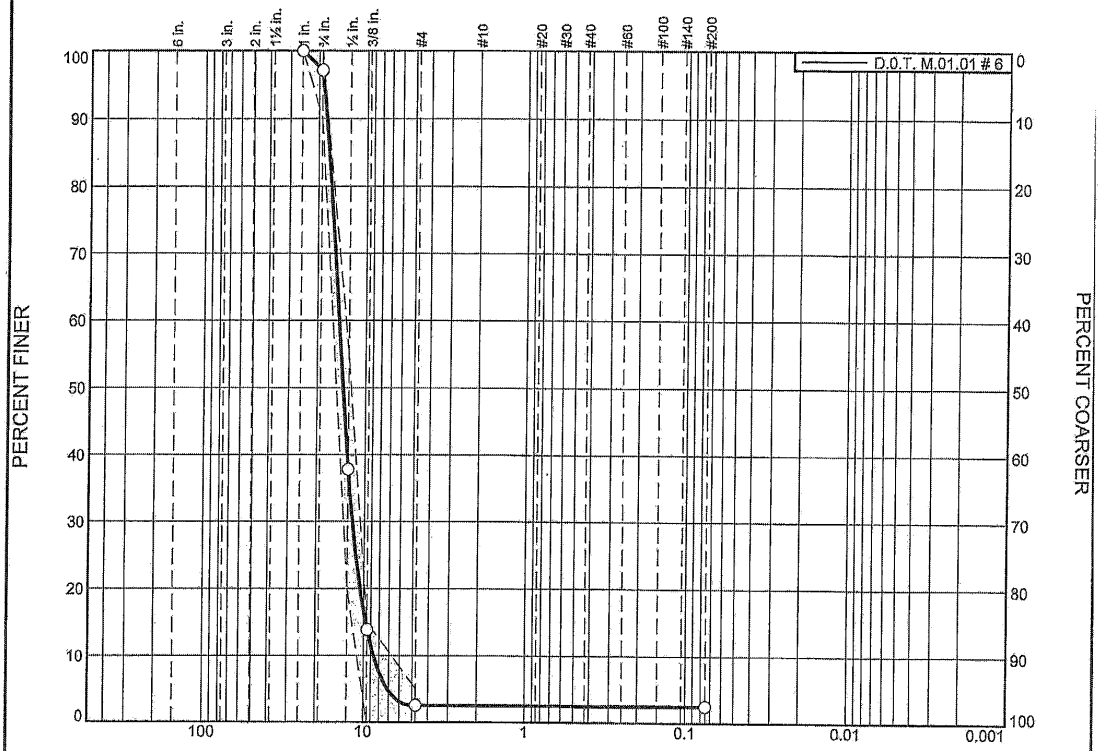
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	2.9	94.6	97.5	0.0	0.0	0.0	0.0			2.5

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
8.6835	9.7395	10.5929	11.8960	13.7843	14.6408	16.5354	17.1086	17.7701	18.5982

Fineness Modulus	C_u	C_c
6.74	1.69	1.11

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	2.9	94.6	0.0	0.0	0.0	2.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	17.1086	14.6408	13.7843	11.8960	9.7395	8.6835	1.11	1.69

Material Description	USCS	AASHTO
○ 3/4" Crushed Stone	GP	N/A

Project No. **Client:** : Herb Holden Trucking
Project: : In House Testing

○ **Source:** Onsite Quarry Date: 09/20/2019

Tri State Materials Testing Lab

Wallingford, Connecticut

Remarks:
○ ASTM C 136, C 117 (Material meet the D.O.T spec)

Figure

Tested By: IC **Checked By:** HC

HERB HOLDEN TRUCKING, INC
SINCE 1961

59 Broad Brook Rd
Broad Brook, CT 06016
860-623-8855 Office
860-627-7896 Fax
www.holdeninc.com

RE: Eversource Berlin, CT

To Whom It May Concern:

This letter is to certify that Herb Holden Trucking, Inc. is supplying Strategic Environmental Services with gravel and stone for the Eversource project located at 107 Selden St Berlin, CT. These products have originated from a virgin bank sources. Our gravel source is located at 66 Wapping Rd in Broad Brook, CT. Our stone quarry is located at 311 East Mountain Rd in Westfield, MA. At these locations all materials are either screened or crushed to make State of CT certified gravels, backfills and septic sands. All materials are mined from these locations and are free of any foreign materials.

Regards,

Aaron Dillon
Account Manager
aarondillon@holdeninc.com

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 21, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20B0721

Enclosed are results of analyses for samples received by the laboratory on February 17, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/21/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20B0721

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden B5-2	20B0721-01	Soil		SW-846 8260C-D	
Herb Holden B5-3	20B0721-02	Soil		SW-846 8260C-D	
Herb Holden B5-4	20B0721-03	Soil		SW-846 8260C-D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

All results are reported as wet weight. No volume for % solid analysis was provided by the client.

SW-846 8260C-D

Qualifications:

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12

B252449-BS1, S045711-CCV1

V-34

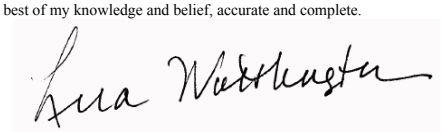
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

20B0721-01[Herb Holden B5-2], 20B0721-02[Herb Holden B5-3], 20B0721-03[Herb Holden B5-4], B252449-BLK1, B252449-BS1, S045711-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.7	70-130		2/18/20 6:31
Toluene-d8	96.8	70-130		2/18/20 6:31
4-Bromofluorobenzene	102	70-130		2/18/20 6:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	82.0	70-130			2/18/20 6:58
Toluene-d8	96.6	70-130			2/18/20 6:58
4-Bromofluorobenzene	103	70-130			2/18/20 6:58

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Acrylonitrile	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromomethane	ND	0.0073	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Disulfide	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroform	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloromethane	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Naphthalene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Vinyl Chloride	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
m+p Xylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	82.5	70-130		2/18/20	7:25
Toluene-d8	97.5	70-130		2/18/20	7:25
4-Bromofluorobenzene	103	70-130		2/18/20	7:25

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20B0721-01 [Herb Holden B5-2]	B252449	6.53	10.0	02/18/20
20B0721-02 [Herb Holden B5-3]	B252449	6.53	10.0	02/18/20
20B0721-03 [Herb Holden B5-4]	B252449	6.83	10.0	02/18/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0391*		mg/Kg wet	0.0500		78.3	70-130			
Surrogate: Toluene-d8	*0.0481*		mg/Kg wet	0.0500		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
Acetone	0.200	0.10	mg/Kg wet	0.200		100	40-160			
Acrylonitrile	0.0188	0.0060	mg/Kg wet	0.0200		94.0	70-130			
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Bromoform	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
Bromomethane	0.0220	0.010	mg/Kg wet	0.0200		110	40-160			V-34
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.4	40-160			
n-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
sec-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
tert-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Carbon Disulfide	0.209	0.0060	mg/Kg wet	0.200		104	70-130			
Carbon Tetrachloride	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Chlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0233	0.020	mg/Kg wet	0.0200		116	70-130			
Chloroform	0.0168	0.0040	mg/Kg wet	0.0200		84.0	70-130			
Chloromethane	0.0201	0.010	mg/Kg wet	0.0200		101	40-160			
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
trans-1,4-Dichloro-2-butene	0.0178	0.0040	mg/Kg wet	0.0200		89.2	70-130			
Dichlorodifluoromethane (Freon 12)	0.0262	0.020	mg/Kg wet	0.0200		131	40-160			V-20
1,1-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,2-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
1,1-Dichloroethylene	0.0188	0.0040	mg/Kg wet	0.0200		93.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
cis-1,2-Dichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
trans-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130			
2,2-Dichloropropane	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130			
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130			
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
Hexachlorobutadiene	0.0209	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.171	0.020	mg/Kg wet	0.200		85.3	70-130			
Isopropylbenzene (Cumene)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0183	0.0040	mg/Kg wet	0.0200		91.5	70-130			
Methylene Chloride	0.0198	0.020	mg/Kg wet	0.0200		98.9	70-130			
4-Methyl-2-pentanone (MIBK)	0.169	0.020	mg/Kg wet	0.200		84.4	40-160			
Naphthalene	0.0157	0.0040	mg/Kg wet	0.0200		78.7	70-130			
n-Propylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.3	70-130			
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,1-Trichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130			
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0218	0.010	mg/Kg wet	0.0200		109	40-160			
1,2,3-Trichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0217	0.010	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trimethylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Vinyl Chloride	0.0221	0.010	mg/Kg wet	0.0200		110	70-130			
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.6	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0384*		mg/Kg wet	0.0500		76.9	70-130			
Surrogate: Toluene-d8	*0.0484*		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0513*		mg/Kg wet	0.0500		103	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

KAF 20B0721

(3)

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page _____ of _____

Company Name:
Address: 362 Putnam Hill Rd; Sutton MA 01590
Phone: (508) 757-7782
Project Name: Eversource Berlin
Project Location: Berlin, CT
Project Number:
Project Manager: Paul Sacente
Con-Test Quote Name/Number:
Invoice Recipient: accountsreceivable@strategic-es.com
Sampled By:

Requested Turnaround Time
7-Day ✓ 10-Day
PFAS 10-Day (std) Due Date:

Rush Approval Required
1-Day 3-Day
2-Day 4-Day

Dissolved Metals Samples
Field Filtered
Lab to Filter

Orthophosphate Samples
Field Filtered
Lab to Filter

Data Delivery
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To:
Fax To #:

ANALYSIS REQUESTED

VOC 8260

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
1	Herb Holden B5-2			Comp	S	L	✓				
2	Herb Holden B5-3			Comp	S	L	✓				
3	Herb Holden B5-4			Comp	S	L	✓				

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS 9
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

	Date/Time
Relinquished by: (signature)	Date/Time: 11:30 2/17/2020 PM
Received by: (signature) Tom Mau 2/17/2020	Date/Time: 11:30
Relinquished by: (signature) Tom Mau 2/17/2020	Date/Time: 15:45
Received by: (signature) 2.6 2/17	Date/Time: 1545
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
CT
Other

Special Requirements
MA MCP Required
MCP Certification Form Required
✓ CT RCP Required
RCP Certification Form Required
MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government Municipality MWRA WRTA
Federal 21 J School
City Brownfield MBTA

Other
Chromatogram
AIHA-LAP,LLC

PCB ONLY
Soxhlet
Non Soxhlet

Lab Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Strategic Environmental Services

Received By SA Date 2/17 Time 1545

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 2.6
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name F
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F
Are there Rushes? F
Are there Short Holds? F
Is there enough Volume? T
Is there Headspace where applicable? F
Proper Media/Containers Used? T
Were trip blanks received? F
Do all samples have the proper pH? Acid NA Base NA

Who was notified? _____
Who was notified? _____
Who was notified? _____
MS/MSD? F
Is splitting samples required? F
On COC? F

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

* COC missing Samplers Name; Collection dates/times; and Client name.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20B0721

Laboratory Sample ID(s):

20B0721-01 thru 20B0721-03

Sample Date(s):

02/17/2020

List RCP Methods Used:

SW-846 8260C-D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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:  **Position:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 02/21/20

Name of Laboratory: Con-Test Analytical Laboratory

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

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
021A	02 00 00	01/03/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Foundation Stone (gradation)				D-5, Det. 1	1	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christoper Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: January 8, 2020

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 021A **ITEM NO.:** 1

DESCRIPTION: 2" Crush Stone Gradation

RECOMMENDED ACTION:

- [X] 1 - Furnish As Submitted
- [ ] 2 - Furnish As Noted
- [ ] 3 - Revise and Resubmit
- [ ] 4 - Rejected
- [ ] 5 - Acknowledgement
- [ ] See Attached Remarks
- [ ] See Individual Item Actions Below

REMARKS:

1.

This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

GRAIN SIZE DISTRIBUTION TEST DATA

8/9/2018

Client: Herb Holden Trucking — Date:08/09/2018
Project: In House Testing
Project Number: N/A
Location: Onsite (HHT) — Date:08/09/2018
Depth: N/A — **Sample Number:** 486-18
Material Description: 2" Crushed stone
Liquid Limit: N/A — **Plastic Limit:** N/A
USCS Classification: GP
Testing Remarks: ASTM C136,C117
Tested by: SA — **Checked by:** IC
Material specification: D.O.T. M.01.01 # 3

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 4170.80
Tare WL = 0.00
Minus #200 from wash = 0.3%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
4182.70	0.00	0.00	2 1/2"	0.00	100.0	0.0	100.0	100.0	
			2"	237.20	94.3	5.7	90.0	100.0	
			1 1/2"	1268.40	69.7	30.3	35.0	70.0	
			1"	3558.80	14.9	85.1	0.0	15.0	
			3/4"	3955.90	5.4	94.6			
			1/2"	4138.40	1.1	98.9	0.0	5.0	

Fractional Components

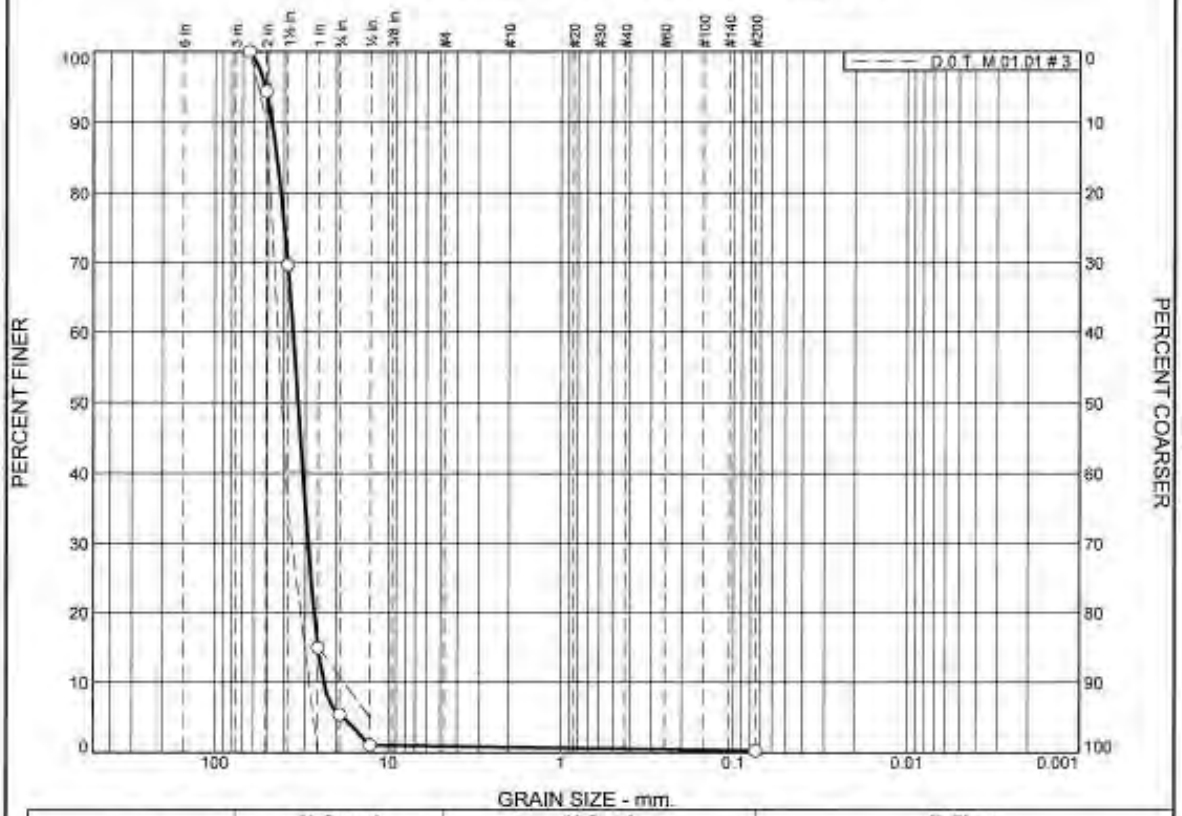
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	94.6	4.5	99.1	0.1	0.3	0.2	0.6			0.3

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
18.1991	23.5585	25.4254	26.7686	29.0169	31.1050	33.2260	35.5211	41.6880	43.9905	46.9965	51.5967

Fineness Modulus	C_u	C_c
8.20	1.51	1.01

Tri State Materials Testing Lab

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	94.6	4.5	0.1	0.3	0.2	0.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	43.9905	35.5211	33.2260	29.0169	25.4254	23.5585	1.01	1.51

Material Description	USCS	AASHTO
○ 2" Crushed stone	GP	

Project No. N/A **Client:** Herb Holden Trucking
Project: In House Testing

○ **Source:** Onsite (HHT) Date:08/09/2018

Remarks:
○ ASTM C136,C117

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: SA **Checked By:** IC

HERB HOLDEN TRUCKING, INC
SINCE 1961

59 Broad Brook Rd
Broad Brook, CT 06016
860-623-8855 Office
860-627-7896 Fax
www.holdeninc.com

RE: Eversource Berlin, CT

To Whom It May Concern:

This letter is to certify that Herb Holden Trucking, Inc. is supplying Strategic Environmental Services with gravel and stone for the Eversource project located at 107 Selden St Berlin, CT. These products have originated from a virgin bank sources. Our gravel source is located at 66 Wapping Rd in Broad Brook, CT. Our stone quarry is located at 311 East Mountain Rd in Westfield, MA. At these locations all materials are either screened or crushed to make State of CT certified gravels, backfills and septic sands. All materials are mined from these locations and are free of any foreign materials.

Regards,

Aaron Dillon
Account Manager
aarondillon@holdeninc.com

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
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THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
022A	02 00 00	01/03/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Embedment Stone (gradation)				D-5, Det. 1	1	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christoper Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: January 8, 2020

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 022A **ITEM NO.:** 1

DESCRIPTION: 2" Crush Stone Gradation

RECOMMENDED ACTION:

- [X] 1 - Furnish As Submitted
- [ ] 2 - Furnish As Noted
- [ ] 3 - Revise and Resubmit
- [ ] 4 - Rejected
- [ ] 5 - Acknowledgement
- [ ] See Attached Remarks
- [ ] See Individual Item Actions Below

REMARKS:

1.

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8/9/2018

Client: Herb Holden Trucking — Date:08/09/2018
Project: In House Testing
Project Number: N/A
Location: Onsite (HHT) — Date:08/09/2018
Depth: N/A — **Sample Number:** 486-18
Material Description: 2" Crushed stone
Liquid Limit: N/A — **Plastic Limit:** N/A
USCS Classification: GP
Testing Remarks: ASTM C136,C117
Tested by: SA — **Checked by:** IC
Material specification: D.O.T. M.01.01 # 3

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 4170.80
Tare WL = 0.00
Minus #200 from wash = 0.3%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
4182.70	0.00	0.00	2 1/2"	0.00	100.0	0.0	100.0	100.0	
			2"	237.20	94.3	5.7	90.0	100.0	
			1 1/2"	1268.40	69.7	30.3	35.0	70.0	
			1"	3558.80	14.9	85.1	0.0	15.0	
			3/4"	3955.90	5.4	94.6			
			1/2"	4138.40	1.1	98.9	0.0	5.0	

Fractional Components

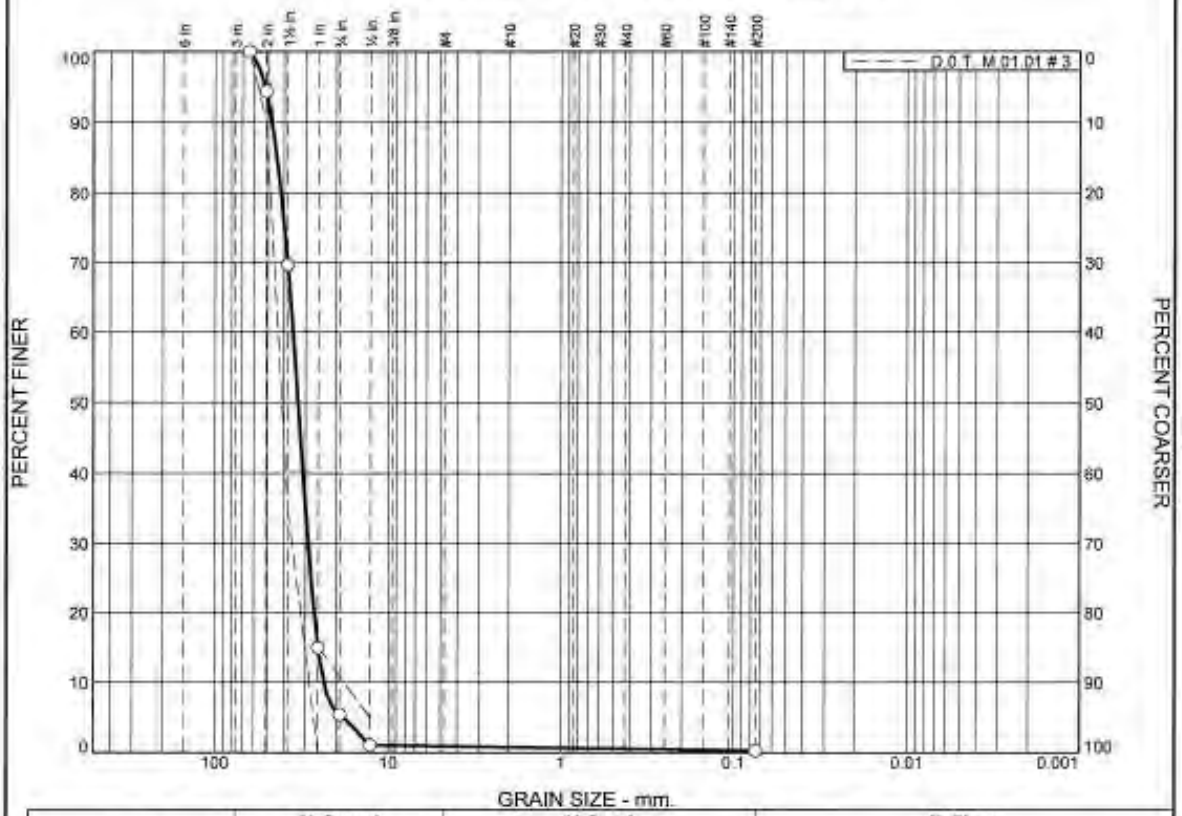
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	94.6	4.5	99.1	0.1	0.3	0.2	0.6			0.3

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
18.1991	23.5585	25.4254	26.7686	29.0169	31.1050	33.2260	35.5211	41.6880	43.9905	46.9965	51.5967

Fineness Modulus	C_u	C_c
8.20	1.51	1.01

Tri State Materials Testing Lab

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	94.6	4.5	0.1	0.3	0.2	0.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	43.9905	35.5211	33.2260	29.0169	25.4254	23.5585	1.01	1.51

Material Description	USCS	AASHTO
○ 2" Crushed stone	GP	

Project No. N/A **Client:** Herb Holden Trucking
Project: In House Testing

○ **Source:** Onsite (HHT) Date:08/09/2018

Remarks:
○ ASTM C136,C117

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: SA **Checked By:** IC

HERB HOLDEN TRUCKING, INC
SINCE 1961

59 Broad Brook Rd
Broad Brook, CT 06016
860-623-8855 Office
860-627-7896 Fax
www.holdeninc.com

RE: Eversource Berlin, CT

To Whom It May Concern:

This letter is to certify that Herb Holden Trucking, Inc. is supplying Strategic Environmental Services with gravel and stone for the Eversource project located at 107 Selden St Berlin, CT. These products have originated from a virgin bank sources. Our gravel source is located at 66 Wapping Rd in Broad Brook, CT. Our stone quarry is located at 311 East Mountain Rd in Westfield, MA. At these locations all materials are either screened or crushed to make State of CT certified gravels, backfills and septic sands. All materials are mined from these locations and are free of any foreign materials.

Regards,

Aaron Dillon
Account Manager
aarondillon@holdeninc.com

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
023B	02 00 00	03/04/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Initial Fill (plasticity)					2	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christopher M. Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: March 12, 2020

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 023B **ITEM NO.:** 1

DESCRIPTION: Initial Fill Layer above the Subgrade Detention System

RECOMMENDED ACTION:

- ☐ 1 - Furnish As Submitted
- ☒ 2 - Furnish As Noted
- ☐ 3 - Revise and Resubmit
- ☐ 4 - Rejected
- ☐ 5 - Acknowledgement
- ☐ See Attached Remarks
- ☐ See Individual Item Actions Below

REMARKS:

This sample is furnish as noted for the following reason: optimal density by modified proctor is still a required element of the submittal. However, the density result is FYI and not for acceptance so this material is approved.

Please ensure that the density result is submitted before any compaction testing for this material is necessary.

=====

The gradation has been accepted, for the same reason specified in Transmittal 023.

The plasticity remains accepted, as initially indicated on 026A.

I have added in the Lab Report for WO#20B0721, which contains the 3 additional VOC samples.

The chemical analytical data is acceptable to WSE and ES, as had been previously discussed during meetings and by email/phone calls, including verbal approval from Eversource during the 3/12/20 progress meeting.

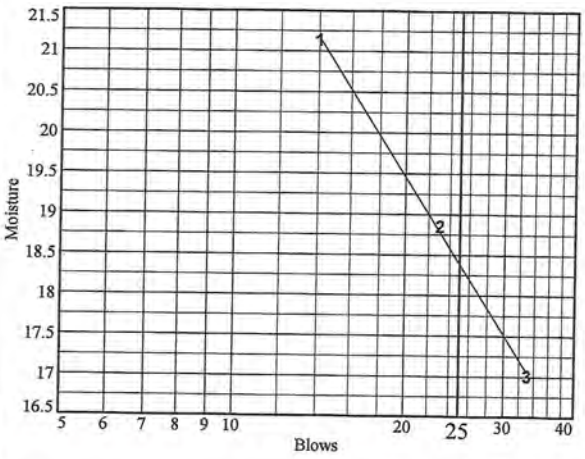
This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

LIQUID AND PLASTIC LIMIT TEST DATA

Client: Strategic Enviromental Services,Inc
Date: 12/22/2019
Project: Eversource settling basin,Berlin CT
Location: Offsite (Herb Holden)
Depth: N/A
Sample Number: 881-19
Material Description: 2 1/2" Minus reddish brown bankrun gravel and sand
%<#40: 17.8 **%<#200:** 4.9 **USCS:** SP **AASHTO:** A-1-a
Tested by: N/A
Checked by: N/A
Testing Remarks: ASTM D 4318

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	42.4	41.6	44.7			
Dry+Tare	35.0	35.0	38.2			
Tare	0	0	0			
# Blows	14	23	33			
Moisture	21.1	18.9	17.0			



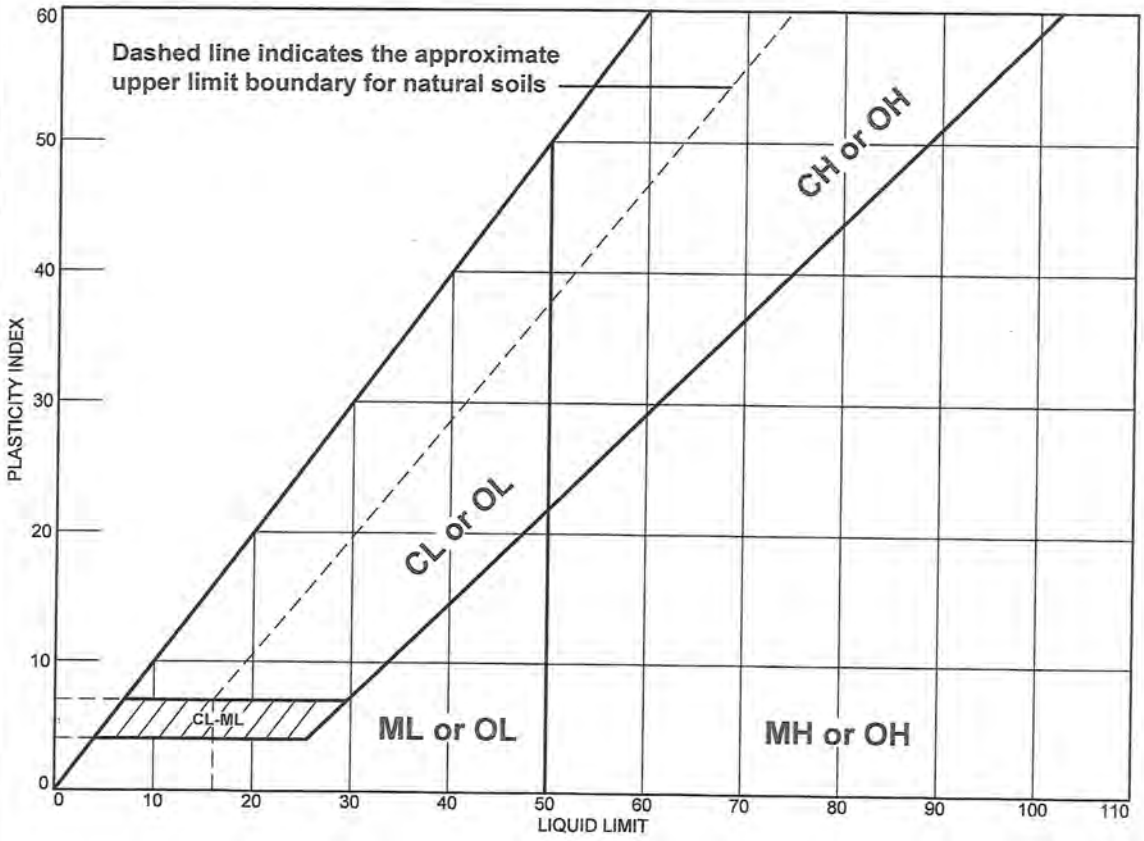
Liquid Limit= 18
Plastic Limit= NP
Plasticity Index= NP
Natural Moisture= N/A

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare					
Dry+Tare					
Tare					
Moisture					

Tri State Materials Testing Lab

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	2 1/2" Minus reddish brown bankrun gravel and sand	18	NP	NP	17.8	4.9	SP

Project No. **Client:** Strategic Enviromental Services,Inc

Project: Eversource settling basin,Berlin CT

● **Source:** Offsite (Herb Holden) **Depth:** N/A **Sample No.:** 881-19

Remarks:
● ASTM D 4318

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: N/A **Checked By:** N/A

GRAIN SIZE DISTRIBUTION TEST DATA

5/25/2019

Client: : Herb Holden Trucking — Date: 05/25/2019
Project: : In House Testing
Location: Onsite Quarry — Date: 05/25/2019
Depth: N/A — **Sample Number:** 389-19
Material Description: 3" Minus bankrun gravel with sand, trace fines
Liquid Limit: N/A — **Plastic Limit:** N/A
USCS Classification: GP — **AASHTO Classification:** N/A
Testing Remarks: ASTM C 136, C 117(Material meet the D.O.T structural fill, granular fill and sub-base spec)
Tested by: JC — **Checked by:** HC
Material specification: D.O.T. M.02.06 -A

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 3970.00
Tare Wt. = 0.00
Minus #200 from wash = 4.2%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
4143.50	0.00	0.00	3"	0.00	100.0	0.0			
			2 1/2"	508.40	87.7	12.3			
			2"	861.90	79.2	20.8			
			1 1/2"	1023.40	75.3	24.7	55.0	100.0	
			3/4"	1258.90	69.6	30.4			
			1/4"	1948.50	53.0	47.0	25.0	60.0	
			#4	2017.00	51.3	48.7			
			#10	2283.60	44.9	55.1	15.0	45.0	
			#40	3115.20	24.8	75.2	5.0	25.0	
			#100	3877.10	6.4	93.6	0.0	10.0	
			#200	3967.30	4.3	95.7	0.0	5.0	

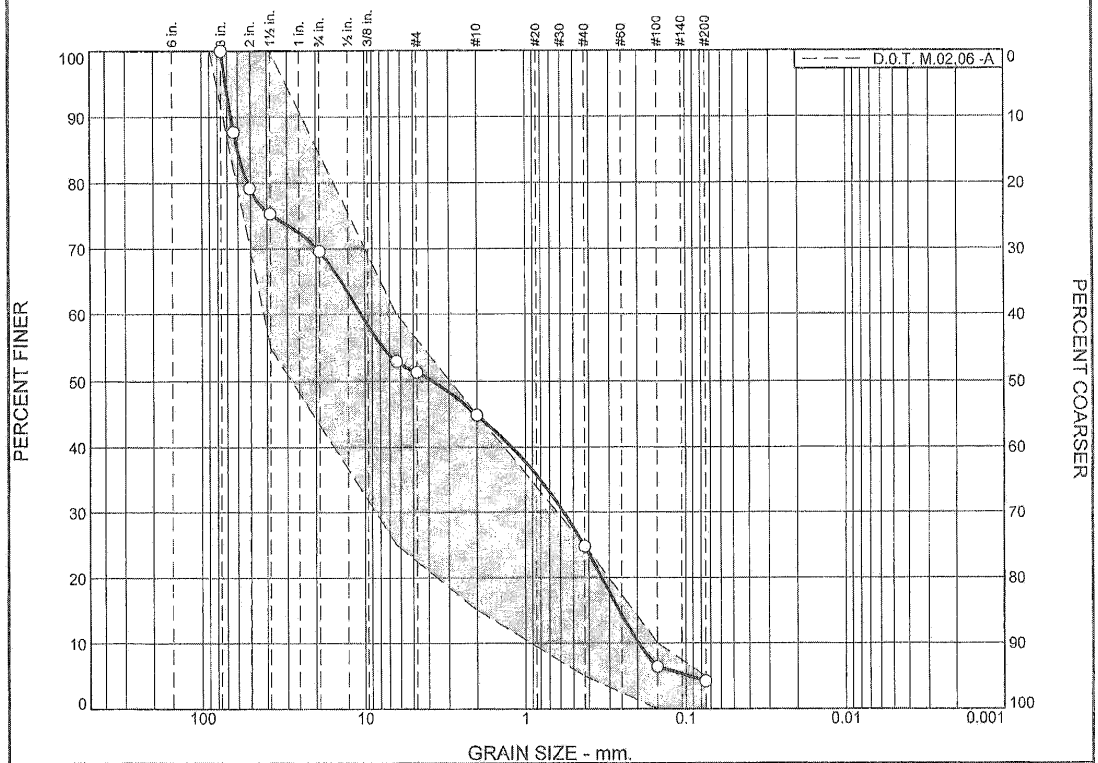
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	30.4	18.3	48.7	6.4	20.1	20.5	47.0			4.3

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0952	0.1971	0.2601	0.3333	0.5720	1.2204	3.7774	10.5468	52.4285	60.1969	65.9795	71.0990

Fineness Modulus	C_u	C_c
5.04	53.50	0.16

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	30.4	18.3	6.4	20.1	20.5	4.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	60.1969	10.5468	3.7774	0.5720	0.2601	0.1971	0.16	53.50

Material Description	USCS	AASHTO
○ 3" Minus bankrun gravel with sand, trace fines	GP	N/A

Project No. **Client:** : Herb Holden Trucking

Project: : In House Testing

○ **Source:** Onsite Quarry Date: 05/25/2019

Remarks:
○ ASTM C 136, C 117(Material meet the D.O.T structural fill, granular fill and sub-base spec)

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: IC **Checked By:** HC

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 27, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20A0519

Enclosed are results of analyses for samples received by the laboratory on January 13, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/27/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0519

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden Backfill BS-1	20A0519-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - re-running thallium by 6020 - 2/26/2020 mmk

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8081B

Qualifications:

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD
B250059-BS1, B250059-BSD1

SW-846 8260C-D

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

SW-846 8270D-E

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

Hexachlorocyclopentadiene
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

2-Nitroaniline
S045005-CCV1

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

4-Nitrophenol
S045005-CCV1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Nitroaniline
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

4-Nitrophenol
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

con-test® ANALYTICAL LABORATORY
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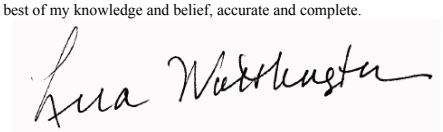
The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Toluene	0.0027	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.5	70-130		1/14/20 14:09
Toluene-d8	99.9	70-130		1/14/20 14:09
4-Bromofluorobenzene	101	70-130		1/14/20 14:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1	V-05	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitroaniline	ND	0.34	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitrophenol	ND	0.67	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	83.4	30-130		1/27/20 9:28
Phenol-d6	87.8	30-130		1/27/20 9:28
Nitrobenzene-d5	89.6	30-130		1/27/20 9:28
2-Fluorobiphenyl	115	30-130		1/27/20 9:28
2,4,6-Tribromophenol	84.2	30-130		1/27/20 9:28
p-Terphenyl-d14	98.0	30-130		1/27/20 9:28

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Aldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
alpha-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
beta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
delta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
gamma-BHC (Lindane) [1]	ND	0.0019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Chlordane [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDD [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDE [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDT [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Dieldrin [1]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan I [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan II [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan sulfate [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin aldehyde [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin ketone [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor epoxide [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Hexachlorobenzene [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Methoxychlor [1]	ND	0.048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Toxaphene [1]	ND	0.095	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.5	30-150		1/15/20 23:52
Decachlorobiphenyl [2]	75.4	30-150		1/15/20 23:52
Tetrachloro-m-xylene [1]	75.1	30-150		1/15/20 23:52
Tetrachloro-m-xylene [2]	67.6	30-150		1/15/20 23:52

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1221 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1232 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1242 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1248 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1254 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1260 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1262 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1268 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	93.8	30-150				1/23/20 18:05	
Decachlorobiphenyl [2]	95.9	30-150				1/23/20 18:05	
Tetrachloro-m-xylene [1]	93.6	30-150				1/23/20 18:05	
Tetrachloro-m-xylene [2]	95.8	30-150				1/23/20 18:05	

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	1/15/20	1/17/20 3:16	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	68.4	50-150		1/17/20 3:16



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Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Arsenic	2.5	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Barium	25	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Beryllium	0.21	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Chromium	7.4	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Copper	5.7	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Lead	2.9	0.50	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	1/22/20	1/23/20 11:54	CJV
Nickel	5.6	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Silver	ND	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Thallium	ND	0.085	mg/Kg dry	5		SW-846 6020B	2/26/20	2/26/20 19:15	MJH
Vanadium	16	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Zinc	14	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.2		% Wt	1		SM 2540G	1/23/20	1/24/20 14:31	CBM

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250058	30.0	1.00	01/15/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250713	01/23/20

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250477	1.54	50.0	01/21/20

Prep Method: SW-846 3050B-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B253045	1.51	50.0	02/26/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250544	0.612	50.0	01/22/20

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250059	10.8	10.0	01/15/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250482	10.7	10.0	01/21/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B249988	4.57	10.0	01/14/20

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250825	30.6	1.00	01/24/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0421*		mg/Kg wet	0.0500		84.3	70-130			
Surrogate: Toluene-d8	*0.0491*		mg/Kg wet	0.0500		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0514*		mg/Kg wet	0.0500		103	70-130			
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
Acetone	0.170	0.10	mg/Kg wet	0.200		85.1	40-160			
Acrylonitrile	0.0184	0.0060	mg/Kg wet	0.0200		91.8	70-130			
Benzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromodichloromethane	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Bromoform	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromomethane	0.0169	0.010	mg/Kg wet	0.0200		84.7	40-160			V-34
2-Butanone (MEK)	0.180	0.040	mg/Kg wet	0.200		90.2	40-160			
n-Butylbenzene	0.0163	0.0020	mg/Kg wet	0.0200		81.5	70-130			
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Carbon Disulfide	0.179	0.0060	mg/Kg wet	0.200		89.4	70-130			
Carbon Tetrachloride	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0179	0.020	mg/Kg wet	0.0200		89.3	70-130			
Chloroform	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130			
Chloromethane	0.0159	0.010	mg/Kg wet	0.0200		79.7	40-160			
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
4-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130			
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
trans-1,4-Dichloro-2-butene	0.0183	0.0040	mg/Kg wet	0.0200		91.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.0183	0.020	mg/Kg wet	0.0200		91.3	40-160			
1,1-Dichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,2-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		82.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
cis-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
trans-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
1,3-Dichloropropane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
2,2-Dichloropropane	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130			
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Hexachlorobutadiene	0.0208	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		91.1	70-130			
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.0	70-130			
Methylene Chloride	0.0185	0.020	mg/Kg wet	0.0200		92.5	70-130			
4-Methyl-2-pentanone (MIBK)	0.183	0.020	mg/Kg wet	0.200		91.6	40-160			
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.4	70-130			
n-Propylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Tetrachloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Tetrahydrofuran	0.0176	0.010	mg/Kg wet	0.0200		87.8	70-130			V-16
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,2,3-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,1,1-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0181	0.010	mg/Kg wet	0.0200		90.4	40-160			
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0185	0.010	mg/Kg wet	0.0200		92.4	70-130			
1,2,4-Trimethylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
Vinyl Chloride	0.0171	0.010	mg/Kg wet	0.0200		85.7	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		mg/Kg wet	0.0500		82.4	70-130			
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0500*		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-06, V-19
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-06
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.62*		mg/Kg wet	6.67		84.4	30-130				
Surrogate: Nitrobenzene-d5	*2.79*		mg/Kg wet	3.33		83.6	30-130				
Surrogate: 2-Fluorobiphenyl	*3.49*		mg/Kg wet	3.33		105	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.47*		mg/Kg wet	6.67		97.1	30-130				
Surrogate: p-Terphenyl-d14	*3.29*		mg/Kg wet	3.33		98.8	30-130				
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.1	40-140				
Aniline	1.07	0.34	mg/Kg wet	1.67		64.0	40-140			V-05	†
Anthracene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140				
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.2	40-140				
Benzo(a)pyrene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Benzo(b)fluoranthene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140				
Benzo(g,h,i)perylene	1.69	0.17	mg/Kg wet	1.67		101	40-140				
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140				
Bis(2-chloroethoxy)methane	1.39	0.34	mg/Kg wet	1.67		83.2	40-140				
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140				
Bis(2-chloroisopropyl)ether	1.40	0.34	mg/Kg wet	1.67		84.2	40-140				
Bis(2-Ethylhexyl)phthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.67		90.9	40-140				
Butylbenzylphthalate	1.52	0.34	mg/Kg wet	1.67		91.3	40-140				
Carbazole	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
4-Chloroaniline	0.984	0.66	mg/Kg wet	1.67		59.0	40-140				†
4-Chloro-3-methylphenol	1.49	0.66	mg/Kg wet	1.67		89.3	30-130				
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140				
2-Chlorophenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130				
4-Chlorophenylphenylether	1.43	0.34	mg/Kg wet	1.67		86.0	40-140				
Chrysene	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
Dibenz(a,h)anthracene	1.62	0.17	mg/Kg wet	1.67		96.9	40-140				
Dibenzofuran	1.47	0.34	mg/Kg wet	1.67		88.5	40-140				
Di-n-butylphthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
3,3-Dichlorobenzidine	1.23	0.17	mg/Kg wet	1.67		73.9	40-140				†
2,4-Dichlorophenol	1.50	0.34	mg/Kg wet	1.67		90.3	30-130				
Diethylphthalate	1.43	0.34	mg/Kg wet	1.67		85.9	40-140				
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.4	30-130				
Dimethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.9	40-140				
4,6-Dinitro-2-methylphenol	1.80	0.34	mg/Kg wet	1.67		108	30-130			V-06, V-19	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
2,4-Dinitrophenol	2.02	0.66	mg/Kg wet	1.67		121	30-130			V-06	
2,4-Dinitrotoluene	1.67	0.34	mg/Kg wet	1.67		100	40-140				
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		99.3	40-140				
Di-n-octylphthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140				
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140				
Fluorene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140				
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.3	40-140				
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140				
Hexachlorocyclopentadiene	1.28	0.34	mg/Kg wet	1.67		76.5	30-140				
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		75.3	40-140				
Indeno(1,2,3-cd)pyrene	1.77	0.17	mg/Kg wet	1.67		106	40-140				
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.4	40-140				
2-Methylnaphthalene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140				
2-Methylphenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130				
3/4-Methylphenol	1.40	0.34	mg/Kg wet	1.67		83.8	30-130				
Naphthalene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140				
2-Nitroaniline	1.91	0.34	mg/Kg wet	1.67		115	40-140				
3-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.3	40-140				†
4-Nitroaniline	1.55	0.34	mg/Kg wet	1.67		93.0	40-140				
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.6	40-140				
2-Nitrophenol	1.62	0.34	mg/Kg wet	1.67		97.1	30-130				
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.3	10-130				
N-Nitrosodiphenylamine/Diphenylamine	1.55	0.34	mg/Kg wet	1.67		92.8	40-140				
N-Nitrosodi-n-propylamine	1.31	0.34	mg/Kg wet	1.67		78.5	40-140				
Pentachloronitrobenzene	1.64	0.34	mg/Kg wet	1.67		98.3	40-140				
Pentachlorophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130				
Phenanthrene	1.50	0.17	mg/Kg wet	1.67		90.3	40-140				
Phenol	1.31	0.34	mg/Kg wet	1.67		78.7	20-130				
Pyrene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140				
Pyridine	0.690	0.34	mg/Kg wet	1.67		41.4	10-140				†
1,2,4,5-Tetrachlorobenzene	1.41	0.34	mg/Kg wet	1.67		84.8	40-140				
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
2,4,5-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.6	30-130				
2,4,6-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.5	30-130				
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.66*		mg/Kg wet	6.67		84.9	30-130				
Surrogate: Nitrobenzene-d5	*2.92*		mg/Kg wet	3.33		87.7	30-130				
Surrogate: 2-Fluorobiphenyl	*3.54*		mg/Kg wet	3.33		106	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.49*		mg/Kg wet	6.67		97.4	30-130				
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg wet	3.33		94.4	30-130				
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.50	0.17	mg/Kg wet	1.67		89.7	40-140	3.35	30		
Acenaphthylene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140	3.80	30		
Aniline	1.07	0.34	mg/Kg wet	1.67		63.9	40-140	0.0312	50	V-05	† ‡
Anthracene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140	2.39	30		
Benzo(a)anthracene	1.52	0.17	mg/Kg wet	1.67		91.4	40-140	3.50	30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	1.71	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.5	40-140	1.84	30		
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140	1.86	30		
Benzo(k)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	2.13	30		
Bis(2-chloroethoxy)methane	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	1.22	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	0.00	30		
Bis(2-chloroisopropyl)ether	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	1.58	30		
Bis(2-Ethylhexyl)phthalate	1.50	0.34	mg/Kg wet	1.67		90.0	40-140	1.77	30		
4-Bromophenylphenylether	1.59	0.34	mg/Kg wet	1.67		95.1	40-140	4.58	30		
Butylbenzylphthalate	1.55	0.34	mg/Kg wet	1.67		93.0	40-140	1.82	30		
Carbazole	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	2.24	30		
4-Chloroaniline	0.998	0.66	mg/Kg wet	1.67		59.9	40-140	1.45	30		†
4-Chloro-3-methylphenol	1.50	0.66	mg/Kg wet	1.67		90.1	30-130	0.869	30		
2-Chloronaphthalene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	3.93	30		
2-Chlorophenol	1.42	0.34	mg/Kg wet	1.67		84.9	30-130	3.47	30		
4-Chlorophenylphenylether	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	3.81	30		
Chrysene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	3.41	30		
Dibenz(a,h)anthracene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140	2.73	30		
Dibenzofuran	1.52	0.34	mg/Kg wet	1.67		91.3	40-140	3.09	30		
Di-n-butylphthalate	1.50	0.34	mg/Kg wet	1.67		89.7	40-140	1.41	30		
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	2.96	30		† ‡
2,4-Dichlorophenol	1.55	0.34	mg/Kg wet	1.67		93.3	30-130	3.29	30		
Diethylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	1.52	30		
2,4-Dimethylphenol	1.39	0.34	mg/Kg wet	1.67		83.5	30-130	2.60	30		
Dimethylphthalate	1.45	0.34	mg/Kg wet	1.67		86.9	40-140	2.40	50		
4,6-Dinitro-2-methylphenol	1.86	0.34	mg/Kg wet	1.67		112	30-130	3.52	50	V-06, V-19	
2,4-Dinitrophenol	2.12	0.66	mg/Kg wet	1.67		127	30-130	4.75	50	V-06	
2,4-Dinitrotoluene	1.70	0.34	mg/Kg wet	1.67		102	40-140	2.00	30		
2,6-Dinitrotoluene	1.69	0.34	mg/Kg wet	1.67		101	40-140	2.17	30		
Di-n-octylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	0.206	30		
Fluoranthene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	3.35	30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	3.16	30		
Hexachlorobenzene	1.53	0.34	mg/Kg wet	1.67		92.0	40-140	4.11	30		
Hexachlorobutadiene	1.38	0.34	mg/Kg wet	1.67		82.5	40-140	3.91	30		
Hexachlorocyclopentadiene	1.34	0.34	mg/Kg wet	1.67		80.4	30-140	4.97	50		
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	1.50	50		
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.67		107	40-140	0.995	50		
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	0.116	30		
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140	3.45	30		
2-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.4	30-130	3.71	30		
3/4-Methylphenol	1.43	0.34	mg/Kg wet	1.67		85.7	30-130	2.20	30		
Naphthalene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	2.57	30		
2-Nitroaniline	1.87	0.34	mg/Kg wet	1.67		112	40-140	2.17	30		
3-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	3.11	30		†
4-Nitroaniline	1.58	0.34	mg/Kg wet	1.67		95.0	40-140	2.15	30		
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	0.239	30		
2-Nitrophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130	4.03	30		
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.5	10-130	0.168	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.58	0.34	mg/Kg wet	1.67		94.6	40-140	1.94	30		
N-Nitrosodi-n-propylamine	1.33	0.34	mg/Kg wet	1.67		80.0	40-140	1.94	30		
Pentachloronitrobenzene	1.70	0.34	mg/Kg wet	1.67		102	40-140	3.65	30		
Pentachlorophenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130	4.02	50		
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140	2.28	30		
Phenol	1.35	0.34	mg/Kg wet	1.67		80.8	20-130	2.58	30		
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140	2.84	30		
Pyridine	0.713	0.34	mg/Kg wet	1.67		42.8	10-140	3.33	50		†
1,2,4,5-Tetrachlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.8	40-140	4.58	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20						
1,2,4-Trichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	3.36	30	
2,4,5-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.0	30-130	3.66	30	
2,4,6-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.4	30-130	4.24	50	
Surrogate: 2-Fluorophenol	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Phenol-d6	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Nitrobenzene-d5	*2.90*		mg/Kg wet	3.33		87.0	30-130			
Surrogate: 2-Fluorobiphenyl	*3.65*		mg/Kg wet	3.33		110	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.81*		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	*3.25*		mg/Kg wet	3.33		97.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
Blank (B250059-BLK1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.151*		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.139*		mg/Kg wet	0.200		69.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS (B250059-BS1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
alpha-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
gamma-Chlordane	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
gamma-Chlordane [2C]	0.086	0.0050	mg/Kg wet	0.100		86.1	40-140			
Alachlor	0.087	0.020	mg/Kg wet	0.100		87.0	40-140			
Alachlor [2C]	0.091	0.020	mg/Kg wet	0.100		90.9	40-140			
Aldrin	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140			
Aldrin [2C]	0.082	0.0050	mg/Kg wet	0.100		82.5	40-140			
alpha-BHC	0.087	0.0050	mg/Kg wet	0.100		86.9	40-140			
alpha-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140			
beta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
beta-BHC [2C]	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140			
delta-BHC	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		81.2	40-140			
gamma-BHC (Lindane)	0.078	0.0020	mg/Kg wet	0.100		77.9	40-140			
gamma-BHC (Lindane) [2C]	0.078	0.0020	mg/Kg wet	0.100		78.3	40-140			
4,4'-DDD	0.096	0.0040	mg/Kg wet	0.100		96.1	40-140			V-06
4,4'-DDD [2C]	0.091	0.0040	mg/Kg wet	0.100		91.2	40-140			
4,4'-DDE	0.090	0.0040	mg/Kg wet	0.100		90.3	40-140			
4,4'-DDE [2C]	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140			
4,4'-DDT	0.093	0.0040	mg/Kg wet	0.100		92.8	40-140			
4,4'-DDT [2C]	0.085	0.0040	mg/Kg wet	0.100		84.6	40-140			
Dieldrin	0.087	0.0040	mg/Kg wet	0.100		87.4	40-140			
Dieldrin [2C]	0.084	0.0040	mg/Kg wet	0.100		84.4	40-140			
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140			
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.1	40-140			
Endosulfan II [2C]	0.087	0.0080	mg/Kg wet	0.100		86.7	40-140			
Endosulfan Sulfate	0.096	0.0080	mg/Kg wet	0.100		96.0	40-140			
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		87.5	40-140			
Endrin	0.092	0.0080	mg/Kg wet	0.100		92.0	40-140			
Endrin [2C]	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140			
Endrin Aldehyde	0.090	0.0080	mg/Kg wet	0.100		90.3	40-140			
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.6	40-140			
Endrin Ketone	0.089	0.0080	mg/Kg wet	0.100		89.4	40-140			
Endrin Ketone [2C]	0.084	0.0080	mg/Kg wet	0.100		84.4	40-140			
Heptachlor	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
Heptachlor [2C]	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140			
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140			
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
Hexachlorobenzene	0.087	0.0060	mg/Kg wet	0.100		86.9	40-140			
Hexachlorobenzene [2C]	0.081	0.0060	mg/Kg wet	0.100		81.1	40-140			
Methoxychlor	0.092	0.050	mg/Kg wet	0.100		91.8	40-140			
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.100		88.6	40-140			
Surrogate: Decachlorobiphenyl	*0.166*		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		72.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS Dup (B250059-BSD1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.077	0.0050	mg/Kg wet	0.100		77.1	40-140	8.06	30	
alpha-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	7.80	30	
gamma-Chlordane	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.04	30	
gamma-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		79.4	40-140	8.09	30	
Alachlor	0.080	0.020	mg/Kg wet	0.100		80.3	40-140	8.03	30	
Alachlor [2C]	0.081	0.020	mg/Kg wet	0.100		80.7	40-140	11.9	30	
Aldrin	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.36	30	
Aldrin [2C]	0.076	0.0050	mg/Kg wet	0.100		76.0	40-140	8.14	30	
alpha-BHC	0.084	0.0050	mg/Kg wet	0.100		84.5	40-140	2.90	30	
alpha-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		73.3	40-140	4.16	30	
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140	5.26	30	
beta-BHC [2C]	0.079	0.0050	mg/Kg wet	0.100		79.0	40-140	5.34	30	
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140	3.08	30	
delta-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	4.92	30	
gamma-BHC (Lindane)	0.075	0.0020	mg/Kg wet	0.100		74.7	40-140	4.15	30	
gamma-BHC (Lindane) [2C]	0.074	0.0020	mg/Kg wet	0.100		74.4	40-140	5.11	30	
4,4'-DDD	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140	6.93	30	V-06
4,4'-DDD [2C]	0.084	0.0040	mg/Kg wet	0.100		83.7	40-140	8.58	30	
4,4'-DDE	0.083	0.0040	mg/Kg wet	0.100		83.4	40-140	7.90	30	
4,4'-DDE [2C]	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	8.81	30	
4,4'-DDT	0.087	0.0040	mg/Kg wet	0.100		86.5	40-140	6.99	30	
4,4'-DDT [2C]	0.078	0.0040	mg/Kg wet	0.100		78.1	40-140	7.98	30	
Dieldrin	0.081	0.0040	mg/Kg wet	0.100		81.2	40-140	7.43	30	
Dieldrin [2C]	0.077	0.0040	mg/Kg wet	0.100		76.8	40-140	9.40	30	
Endosulfan I	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	7.73	30	
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140	7.90	30	
Endosulfan II	0.084	0.0080	mg/Kg wet	0.100		83.7	40-140	7.44	30	
Endosulfan II [2C]	0.080	0.0080	mg/Kg wet	0.100		79.9	40-140	8.19	30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		88.7	40-140	7.94	30	
Endosulfan Sulfate [2C]	0.080	0.0080	mg/Kg wet	0.100		79.8	40-140	9.14	30	
Endrin	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140	7.10	30	
Endrin [2C]	0.081	0.0080	mg/Kg wet	0.100		81.2	40-140	8.30	30	
Endrin Aldehyde	0.083	0.0080	mg/Kg wet	0.100		82.7	40-140	8.76	30	
Endrin Aldehyde [2C]	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140	10.6	30	
Endrin Ketone	0.083	0.0080	mg/Kg wet	0.100		83.1	40-140	7.28	30	
Endrin Ketone [2C]	0.078	0.0080	mg/Kg wet	0.100		77.9	40-140	8.08	30	
Heptachlor	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	6.65	30	
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		74.4	40-140	6.67	30	
Heptachlor Epoxide	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140	7.60	30	
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		74.9	40-140	7.89	30	
Hexachlorobenzene	0.080	0.0060	mg/Kg wet	0.100		80.4	40-140	7.72	30	
Hexachlorobenzene [2C]	0.074	0.0060	mg/Kg wet	0.100		74.3	40-140	8.77	30	
Methoxychlor	0.084	0.050	mg/Kg wet	0.100		84.5	40-140	8.27	30	
Methoxychlor [2C]	0.081	0.050	mg/Kg wet	0.100		80.9	40-140	9.15	30	
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg wet	0.200		70.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.151*		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.132*		mg/Kg wet	0.200		66.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250482 - SW-846 3540C										
Blank (B250482-BLK1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.1	30-150			
LCS (B250482-BS1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.7	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.0	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.7	40-140			
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg wet	0.200		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		94.8	30-150			
LCS Dup (B250482-BSD1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	2.05	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.7	40-140	1.47	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	2.06	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	0.313	30	
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.189*		mg/Kg wet	0.200		94.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250058 - SW-846 3546										
Blank (B250058-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*1.71*		mg/Kg wet	3.33		51.3	50-150			
LCS (B250058-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	24.9	10	mg/Kg wet	33.3		74.7	60-120			
Surrogate: 2-Fluorobiphenyl	*1.90*		mg/Kg wet	3.33		56.9	50-150			
LCS Dup (B250058-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	25.7	10	mg/Kg wet	33.3		77.1	60-120	3.12	30	
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/Kg wet	3.33		58.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Blank (B250477-BLK1)				Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B250477-BS1)				Prepared: 01/21/20 Analyzed: 01/22/20						
Antimony	245	4.9	mg/Kg wet	147		166	4.2-196.6			
Arsenic	148	4.9	mg/Kg wet	143		103	83.2-117.5			
Barium	405	4.9	mg/Kg wet	415		97.5	82.7-117.6			
Beryllium	178	0.49	mg/Kg wet	179		99.4	83.2-117.3			
Cadmium	55.2	0.49	mg/Kg wet	56.2		98.3	82.9-117.3			
Chromium	97.8	0.98	mg/Kg wet	101		96.8	82.4-116.8			
Copper	63.3	0.98	mg/Kg wet	63.1		100	84.2-115.8			
Lead	133	1.5	mg/Kg wet	125		106	82.4-116.8			
Nickel	110	0.98	mg/Kg wet	108		102	82.9-117.6			
Selenium	78.1	9.8	mg/Kg wet	77.9		100	79.3-120.7			
Silver	34.1	0.98	mg/Kg wet	34.3		99.4	81-119.2			
Thallium	115	4.9	mg/Kg wet	113		101	80.8-118.6			
Vanadium	80.6	2.0	mg/Kg wet	83.7		96.3	79.8-120.7			
Zinc	242	2.0	mg/Kg wet	240		101	80.8-118.8			
LCS Dup (B250477-BSD1)				Prepared & Analyzed: 01/21/20						
Antimony	218	4.9	mg/Kg wet	147		149	4.2-196.6	11.4	30	
Arsenic	132	4.9	mg/Kg wet	143		92.5	83.2-117.5	11.0	30	
Barium	378	4.9	mg/Kg wet	415		91.2	82.7-117.6	6.75	20	
Beryllium	175	0.49	mg/Kg wet	179		97.8	83.2-117.3	1.58	30	
Cadmium	49.7	0.49	mg/Kg wet	56.2		88.4	82.9-117.3	10.6	20	
Chromium	93.2	0.98	mg/Kg wet	101		92.3	82.4-116.8	4.74	30	
Copper	60.8	0.98	mg/Kg wet	63.1		96.4	84.2-115.8	3.96	30	
Lead	113	1.5	mg/Kg wet	125		90.8	82.4-116.8	15.8	30	
Nickel	103	0.98	mg/Kg wet	108		95.0	82.9-117.6	7.04	30	
Selenium	76.5	9.8	mg/Kg wet	77.9		98.3	79.3-120.7	2.06	30	
Silver	35.1	0.98	mg/Kg wet	34.3		102	81-119.2	3.07	30	
Thallium	105	4.9	mg/Kg wet	113		93.0	80.8-118.6	8.62	30	
Vanadium	83.2	2.0	mg/Kg wet	83.7		99.4	79.8-120.7	3.14	30	
Zinc	227	2.0	mg/Kg wet	240		94.6	80.8-118.8	6.41	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Duplicate (B250477-DUP1)	**Source: 20A0519-01**			Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg dry		ND			NC	35	
Arsenic	2.19	1.7	mg/Kg dry		2.52			14.3	35	
Barium	22.7	1.7	mg/Kg dry		25.2			10.3	35	
Beryllium	0.175	0.17	mg/Kg dry		0.213			20.0	35	
Cadmium	ND	0.17	mg/Kg dry		ND			NC	35	
Chromium	6.58	0.34	mg/Kg dry		7.41			12.0	35	
Copper	5.23	0.34	mg/Kg dry		5.75			9.38	35	
Lead	2.34	0.51	mg/Kg dry		2.86			20.0	35	
Nickel	5.40	0.34	mg/Kg dry		5.63			4.08	35	
Selenium	ND	3.4	mg/Kg dry		ND			NC	35	
Silver	ND	0.34	mg/Kg dry		ND			NC	35	
Thallium	ND	1.7	mg/Kg dry		ND			NC	35	
Vanadium	12.2	0.68	mg/Kg dry		16.1			27.8	35	
Zinc	13.1	0.68	mg/Kg dry		13.8			4.98	35	
Matrix Spike (B250477-MS1)	**Source: 20A0519-01**			Prepared & Analyzed: 01/21/20						
Antimony	15.1	1.7	mg/Kg dry	17.1	ND	88.3	75-125			
Arsenic	17.7	1.7	mg/Kg dry	17.1	2.52	88.7	75-125			
Barium	40.2	1.7	mg/Kg dry	17.1	25.2	87.6	75-125			
Beryllium	17.7	0.17	mg/Kg dry	17.1	0.213	102	75-125			
Cadmium	15.7	0.17	mg/Kg dry	17.1	ND	91.9	75-125			
Chromium	23.4	0.34	mg/Kg dry	17.1	7.41	93.6	75-125			
Copper	39.5	0.34	mg/Kg dry	34.2	5.75	98.8	75-125			
Lead	18.6	0.51	mg/Kg dry	17.1	2.86	91.9	75-125			
Nickel	22.4	0.34	mg/Kg dry	17.1	5.63	98.4	75-125			
Selenium	16.8	3.4	mg/Kg dry	17.1	ND	98.1	75-125			
Silver	17.6	0.34	mg/Kg dry	17.1	ND	103	75-125			
Thallium	17.3	1.7	mg/Kg dry	17.1	ND	101	75-125			
Vanadium	31.1	0.68	mg/Kg dry	17.1	16.1	88.0	75-125			
Zinc	46.5	0.68	mg/Kg dry	34.2	13.8	95.7	75-125			
Reference (B250477-SRM1) MRL Check				Prepared & Analyzed: 01/21/20						
Lead	0.440	0.51	mg/Kg wet	0.506		86.8	80-120			
Batch B250544 - SW-846 7471										
Blank (B250544-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B250544-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.13	0.39	mg/Kg wet	7.61		93.7	72.7-127.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250544 - SW-846 7471										
LCS Dup (B250544-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.26	0.38	mg/Kg wet	7.61		95.5	72.7-127.3	1.86	20	
Duplicate (B250544-DUP1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg dry		ND			NC	35	
Matrix Spike (B250544-MS1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	0.342	0.025	mg/Kg dry	0.331	ND	103	75-125			
Batch B253045 - SW-846 3050B										
Blank (B253045-BLK1)				Prepared & Analyzed: 02/26/20						
Thallium	ND	0.083	mg/Kg wet							
LCS (B253045-BS1)				Prepared & Analyzed: 02/26/20						
Thallium	117	0.99	mg/Kg wet	113		103	80.8-118.6			
LCS Dup (B253045-BSD1)				Prepared & Analyzed: 02/26/20						
Thallium	117	1.0	mg/Kg wet	113		103	80.8-118.6	0.263	30	
Duplicate (B253045-DUP1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	ND	0.085	mg/Kg dry		ND			NC	35	
Matrix Spike (B253045-MS1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	17.3	0.34	mg/Kg dry	17.0	ND	102	75-125			

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BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM1	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.63
Endrin [1]	1.64

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.41
Endrin [2]	1.32

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM3	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.02
Endrin [1]	2.10

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.87
Endrin [2]	2.14

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM4	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.97
Endrin [1]	2.64

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BREAKDOWN REPORT

Lab Sample ID:	**S044630-PEM4**	**Analyzed:**	**01/15/2020**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	3.73
Endrin [2]	2.59

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.172	7.143	7.203	0.096	
	2	7.198	7.169	7.229	0.091	5.4
4,4'-DDE	1	6.735	6.705	6.765	0.090	
	2	6.771	6.741	6.801	0.090	0.0
4,4'-DDT	1	7.384	7.355	7.415	0.093	
	2	7.436	7.406	7.466	0.085	9.0
Alachlor	1	6.176	6.145	6.205	0.087	
	2	5.962	5.932	5.992	0.091	4.5
Aldrin	1	6.080	6.051	6.111	0.082	
	2	6.022	5.992	6.052	0.082	0.0
alpha-BHC	1	5.382	5.352	5.412	0.087	
	2	5.336	5.305	5.365	0.076	13.5
alpha-Chlordane	1	6.677	6.647	6.707	0.084	
	2	6.641	6.611	6.671	0.085	1.2
beta-BHC	1	5.630	5.601	5.661	0.084	
	2	5.597	5.567	5.627	0.083	1.2
delta-BHC	1	5.743	5.714	5.774	0.087	
	2	5.778	5.747	5.807	0.081	7.1
Dieldrin	1	6.946	6.917	6.977	0.087	
	2	6.875	6.845	6.905	0.084	3.5
Endosulfan I	1	6.772	6.743	6.803	0.081	
	2	6.678	6.648	6.708	0.082	1.2
Endosulfan II	1	7.283	7.253	7.313	0.090	
	2	7.257	7.227	7.287	0.087	3.4
Endosulfan Sulfate	1	7.937	7.906	7.966	0.096	
	2	7.731	7.702	7.762	0.087	9.8
Endrin	1	7.116	7.086	7.146	0.092	
	2	7.096	7.067	7.127	0.088	4.4
Endrin Aldehyde	1	7.601	7.572	7.632	0.090	
	2	7.515	7.485	7.545	0.086	4.6
Endrin Ketone	1	8.132	8.103	8.163	0.089	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.121	8.092	8.152	0.084	5.8
gamma-BHC (Lindane)	1	5.576	5.547	5.607	0.078	
	2	5.545	5.515	5.575	0.078	0.0
gamma-Chlordane	1	6.582	6.552	6.612	0.081	
	2	6.538	6.509	6.569	0.086	6.0
Heptachlor	1	5.881	5.852	5.912	0.083	
	2	5.816	5.786	5.846	0.080	3.7
Heptachlor Epoxide	1	6.493	6.464	6.524	0.082	
	2	6.406	6.376	6.436	0.081	1.2
Hexachlorobenzene	1	5.278	5.249	5.309	0.087	
	2	5.253	5.223	5.283	0.081	7.1
Methoxychlor	1	7.769	7.738	7.798	0.092	
	2	7.979	7.950	8.010	0.089	3.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.173	7.143	7.203	0.090	
	2	7.198	7.169	7.229	0.084	6.9
4,4'-DDE	1	6.735	6.705	6.765	0.083	
	2	6.771	6.741	6.801	0.082	1.2
4,4'-DDT	1	7.384	7.355	7.415	0.087	
	2	7.436	7.406	7.466	0.078	10.9
Alachlor	1	6.176	6.145	6.205	0.080	
	2	5.962	5.932	5.992	0.081	1.2
Aldrin	1	6.081	6.051	6.111	0.075	
	2	6.022	5.992	6.052	0.076	1.3
alpha-BHC	1	5.382	5.352	5.412	0.084	
	2	5.335	5.305	5.365	0.073	15.2
alpha-Chlordane	1	6.676	6.647	6.707	0.077	
	2	6.641	6.611	6.671	0.079	2.6
beta-BHC	1	5.631	5.601	5.661	0.079	
	2	5.597	5.567	5.627	0.079	0.0
delta-BHC	1	5.744	5.714	5.774	0.084	
	2	5.778	5.747	5.807	0.077	8.7
Dieldrin	1	6.946	6.917	6.977	0.081	
	2	6.875	6.845	6.905	0.077	5.1
Endosulfan I	1	6.773	6.743	6.803	0.075	
	2	6.678	6.648	6.708	0.076	1.3
Endosulfan II	1	7.283	7.253	7.313	0.084	
	2	7.256	7.227	7.287	0.080	4.9
Endosulfan Sulfate	1	7.936	7.906	7.966	0.089	
	2	7.731	7.702	7.762	0.080	10.7
Endrin	1	7.116	7.086	7.146	0.086	
	2	7.096	7.067	7.127	0.081	6.0
Endrin Aldehyde	1	7.601	7.572	7.632	0.083	
	2	7.515	7.485	7.545	0.077	7.5
Endrin Ketone	1	8.132	8.103	8.163	0.083	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.122	8.092	8.152	0.078	6.2
gamma-BHC (Lindane)	1	5.577	5.547	5.607	0.075	
	2	5.545	5.515	5.575	0.074	1.3
gamma-Chlordane	1	6.582	6.552	6.612	0.075	
	2	6.538	6.509	6.569	0.079	5.2
Heptachlor	1	5.881	5.852	5.912	0.077	
	2	5.816	5.786	5.846	0.074	4.0
Heptachlor Epoxide	1	6.494	6.464	6.524	0.076	
	2	6.406	6.376	6.436	0.075	1.3
Hexachlorobenzene	1	5.279	5.249	5.309	0.080	
	2	5.253	5.223	5.283	0.074	7.8
Methoxychlor	1	7.768	7.738	7.798	0.084	
	2	7.980	7.950	8.010	0.081	4.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250482-BS1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250482-BSD1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020B in Soil	
Thallium	VA,NY,NH,NC,ME
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test ANALYTICAL LABORATORY

HAF

Phone: 413-525-2332 2040519
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

	Strategic Environmental Services, Inc.
Address:	362 Putnam Hill Rd; Sutton, MA 01590
Phone:	508-757-7782
	Eversource Berlin
Project Location:	Berlin CT
Project Number:	
Project Manager:	Paul Saccente
Con-Test Quote Name/Number:	
Invoice Recipient:	accountsreceivable@strategic-es.com
Sampled By:	

7-Day ☐ 10-Day ☑ ○ Field Filtered ○ Lab to Filter
PFAS 10-Day (std) ☐ Due Date:

1-Day ☐ 3-Day ☐ ○ Field Filtered
2-Day ☐ 4-Day ☐ ○ Lab to Filter

Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: te@strategic-es.com
Fax To #:

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	CT DEEP ETPH	VOC 8261	SVOC 8270	CT RSR 15 Metals 6010 7471	Pesticides 8081	PCB 8082 Soxhlet
1	Herb Holden Backfill BS-1	1/13/20 7am		Comp	S	L						x	x	x	x	x	x

[2] Preservation Code
Courier Use Only
Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 1/13/20 12[illegible]	Client Comments: 1) Run TCLP if exceeds 20X Rule 2) See Section 202 Chemical Properties of Soil Materials on attachment for more detail
Received by: (signature)	Date/Time: 1/13/20 123	
Relinquished by: (signature)	Date/Time: 1/13/20 1[illegible]	
Received by: (signature)	Date/Time: 1/13/20 1640	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Special Requirements

☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
GA Mobility; Residential DEC
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:
Frozen 1/13/20 16:40 DI

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

GCE 65215

Paul Saccente

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:52 AM
To: jake@ondrickmr.com
Cc: Paul Saccente
Subject: RE: SES Loam Quote

Se Also:

Non-Polluted Soil:
Non-Polluted Soil shall be granular, well graded friable soil; free of sediment, rubbish, debris, wood, glass, concrete, metal, bricks, ice, snow, tree stumps, roots, clay, organic matter and any non-soil deleterious material; with 25 percent or less passing the No. 200 sieve; no stone greater than two-third (2/3) loose lift thickness, or three (3) inches, whichever is smaller. Soil material acceptable for use shall be classified as GM, GC, SM or SC according to the Unified Soil Classification System and shall have a plasticity index of less than 10.

2.02 CHEMICAL PROPERTIES OF SOIL MATERIALS
A. All soil materials must meet the following specifications for chemical concentrations to be classified as Non-Polluted Soil:
1. Soil defined as unconsolidated geologic material overlying bedrock, but not including sediment, and **not affected by a release of a substance**. A Release is defined as any discharge, spillage, uncontrolled loss, seepage, filtration, leakage, injection, escape, dumping, pumping, pouring, emitting, emptying, or disposal of a substance. A Substance is defined as an element, compound or material, which when added to air, water or soil or sediment may alter the physical, chemical, biological or characteristic of such air, water, soil or sediment. Sediment is defined as unconsolidated material occurring in a stream channel, estuarine waters, or marine waters. (Reference Connecticut Regulation of State Agencies 22a-133k-1(a) – Definitions)
2. No detectable concentrations of petroleum hydrocarbons as determined by CT DEEP ETPH Method with laboratory reporting limits less than the lower of the Analytical Detection Limit (ADL), the Residential Direct Exposure Criteria (RDEC) or the GA PMC;
3. No detectable concentrations of VOCs by EPA Method 8261 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
BERLIN SETTLING BASIN REMEDIATION PROJECT
BERLIN, CONNECTICUT
06/24/2019 02 00 00-7
4. No detectable concentrations of SVOCs by EPA Method 8270 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
5. Concentrations of RSR 15 metals by EPA Methods 6010 and 7471 less than the lower of the High Range Background Concentration listed in the Background Metals Concentrations table below with reporting limits less than the lower of the High Range Background Concentration and the GAPMC by SPLP Method for each metal;
6. No detectable concentrations of pesticides by EPA Method 8081 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;

1

GCE65215

and
7. No detectable concentrations of PCBs by EPA Method 8082 with laboratory reporting limits less than the lower of the ADL, the RDEC, or the GAPMC by SPLP Method.
8. The RDEC is the Residential Criteria provided in Appendix A and the GA, GAA Pollutant Mobility Criteria (GAPMC) provided in Appendix B of the Regulations of Connecticut State Agencies, Section 22a-133k-1 through -3, inclusive.
9. The Contractor shall analyze soil for each analyte for which an RDEC and GAPMC is provided.

Background Metals Concentrations

Metal	**High Range Background Concentration (mg/kg)**
Antimony	ND
Arsenic	5.4
Barium	800
Beryllium	3.5
Cadmium	0.3
Chromium	8.5
Copper	93
Lead	32
Mercury	0.08
Nickel	40
Selenium	49
Silver	0.83
Thallium	1
Vanadium	157
Zinc	130

ND – Not detected above analytical detection limits.

Ryan Gadoury
Strategic Environmental Services, Inc.
362 Putnam Hill Road
Sutton, MA 01590
Office: 508.757.7782 x 119
Cell: (508)-612-2339
Fax.: 508.363.2346

STRATEGIC ENVIRONMENTAL SERVICES

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:46 AM
To: jake@ondrickmr.com
Cc: Paul Saccente <psaccente@strategic-es.com>
Subject: SES Loam Quote

Thanks again Jake,

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Stantec

Received By MP Date 1/13/20 Time 16:40

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	1
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	2	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 1/13/20 16:40 DI	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D011620.SEC\D0116105.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0116105.D
Data File Path C:\MSDCHEM\4\DATA\D011620.SEC\
Operator RMW
Date Acquired 1/17/1920 2:56
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.65	8520422	9562705	11
C-10	2.29	8787893	9562705	8
C-12	3.21	9099347	9562705	5
C-14	3.92	9391983	9562705	2
C-16	4.53	9561880	9562705	0
C-18	5.07	9707491	9562705	-2
C-20	5.67	9814600	9562705	-3
C-22	6.41	9906304	9562705	-4
C-24	7.25	9971589	9562705	-4
C-26	8.05	9988553	9562705	-4
C-28	8.79	10024972	9562705	-5
C-30	9.47	10056411	9562705	-5
C-32	10.10	9765395	9562705	-2
C-34	10.69	9602263	9562705	0
C-36	11.26	9241478	9562705	3

Samples

20A0519-01
20A0580-01
20A0580-02

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20A0519

Laboratory Sample ID(s):

20A0519-01

Sample Date(s):

01/13/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 6010D, SW-846 7471B, SW-846 8081B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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: Lisa Worthington **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **01/27/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 21, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20B0721

Enclosed are results of analyses for samples received by the laboratory on February 17, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/21/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20B0721

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden B5-2	20B0721-01	Soil		SW-846 8260C-D	
Herb Holden B5-3	20B0721-02	Soil		SW-846 8260C-D	
Herb Holden B5-4	20B0721-03	Soil		SW-846 8260C-D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

All results are reported as wet weight. No volume for % solid analysis was provided by the client.

SW-846 8260C-D

Qualifications:

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12

B252449-BS1, S045711-CCV1

V-34

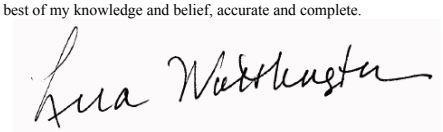
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

20B0721-01[Herb Holden B5-2], 20B0721-02[Herb Holden B5-3], 20B0721-03[Herb Holden B5-4], B252449-BLK1, B252449-BS1, S045711-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.7	70-130		2/18/20 6:31
Toluene-d8	96.8	70-130		2/18/20 6:31
4-Bromofluorobenzene	102	70-130		2/18/20 6:31

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.0	70-130		2/18/20 6:58
Toluene-d8	96.6	70-130		2/18/20 6:58
4-Bromofluorobenzene	103	70-130		2/18/20 6:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Acrylonitrile	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromomethane	ND	0.0073	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Disulfide	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroform	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloromethane	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Naphthalene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Vinyl Chloride	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
m+p Xylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	82.5	70-130		2/18/20	7:25
Toluene-d8	97.5	70-130		2/18/20	7:25
4-Bromofluorobenzene	103	70-130		2/18/20	7:25

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20B0721-01 [Herb Holden B5-2]	B252449	6.53	10.0	02/18/20
20B0721-02 [Herb Holden B5-3]	B252449	6.53	10.0	02/18/20
20B0721-03 [Herb Holden B5-4]	B252449	6.83	10.0	02/18/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0391*		mg/Kg wet	0.0500		78.3	70-130			
Surrogate: Toluene-d8	*0.0481*		mg/Kg wet	0.0500		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
Acetone	0.200	0.10	mg/Kg wet	0.200		100	40-160			
Acrylonitrile	0.0188	0.0060	mg/Kg wet	0.0200		94.0	70-130			
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Bromoform	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
Bromomethane	0.0220	0.010	mg/Kg wet	0.0200		110	40-160			V-34
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.4	40-160			
n-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
sec-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
tert-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Carbon Disulfide	0.209	0.0060	mg/Kg wet	0.200		104	70-130			
Carbon Tetrachloride	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Chlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0233	0.020	mg/Kg wet	0.0200		116	70-130			
Chloroform	0.0168	0.0040	mg/Kg wet	0.0200		84.0	70-130			
Chloromethane	0.0201	0.010	mg/Kg wet	0.0200		101	40-160			
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
trans-1,4-Dichloro-2-butene	0.0178	0.0040	mg/Kg wet	0.0200		89.2	70-130			
Dichlorodifluoromethane (Freon 12)	0.0262	0.020	mg/Kg wet	0.0200		131	40-160			V-20
1,1-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,2-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
1,1-Dichloroethylene	0.0188	0.0040	mg/Kg wet	0.0200		93.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
cis-1,2-Dichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
trans-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130			
2,2-Dichloropropane	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130			
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130			
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
Hexachlorobutadiene	0.0209	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.171	0.020	mg/Kg wet	0.200		85.3	70-130			
Isopropylbenzene (Cumene)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0183	0.0040	mg/Kg wet	0.0200		91.5	70-130			
Methylene Chloride	0.0198	0.020	mg/Kg wet	0.0200		98.9	70-130			
4-Methyl-2-pentanone (MIBK)	0.169	0.020	mg/Kg wet	0.200		84.4	40-160			
Naphthalene	0.0157	0.0040	mg/Kg wet	0.0200		78.7	70-130			
n-Propylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.3	70-130			
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,1-Trichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130			
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0218	0.010	mg/Kg wet	0.0200		109	40-160			
1,2,3-Trichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0217	0.010	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trimethylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Vinyl Chloride	0.0221	0.010	mg/Kg wet	0.0200		110	70-130			
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.6	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0384*		mg/Kg wet	0.0500		76.9	70-130			
Surrogate: Toluene-d8	*0.0484*		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0513*		mg/Kg wet	0.0500		103	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

KAF 20B0721

(3)

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page _____ of _____

Company Name:
Address: 362 Putnam Hill Rd; Sutton MA 01590
Phone: (508) 757-7782
Project Name: Eversource Berlin
Project Location: Berlin, CT
Project Number:
Project Manager: Paul Sciacente
Con-Test Quote Name/Number:
Invoice Recipient: accountsreceivable@strategic-es.com
Sampled By:

Requested Turnaround Time
7-Day ✓ 10-Day
PFAS 10-Day (std) Due Date:

Rush Approval Required
1-Day 3-Day
2-Day 4-Day

Dissolved Metals Samples:
Field Filtered
Lab to Filter

Orthophosphate Samples
Field Filtered
Lab to Filter

Data Delivery
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To:
Fax To #:

ANALYSIS REQUESTED

VOC 8260

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
1	Herb Holden B5-2			Comp	S	L	✓				
2	Herb Holden B5-3			Comp	S	L	✓				
3	Herb Holden B5-4			Comp	S	L	✓				

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS 9
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 11:30 2/17/2020 pm	Client Comments:
Received by: (signature) Tom Mau 2/17/2020 11:30	Date/Time:	
Relinquished by: (signature) Tom Mau 2/17/2020 15:45	Date/Time:	
Received by: (signature) 2.6 2/17	Date/Time: 1545	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other

Special Requirements
MA MCP Required
MCP Certification Form Required
✓ CT RCP Required
RCP Certification Form Required
MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government Municipality MWRA WRTA
Federal 21 J School
City Brownfield MBTA

Other
Chromatogram
AIHA-LAP,LLC

PCB ONLY
Soxhlet
Non Soxhlet

Lab Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Strategic Environmental Services

Received By SA Date 2/17 Time 1545

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 26
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name F
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F
Are there Rushes? F
Are there Short Holds? F
Is there enough Volume? T
Is there Headspace where applicable? F
Proper Media/Containers Used? T
Were trip blanks received? F
Do all samples have the proper pH? Acid NA Base NA

Who was notified? _____
Who was notified? _____
Who was notified? _____
MS/MSD? F
Is splitting samples required? F
On COC? F

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

* COC missing Samplers Name; Collection dates/times; and Client name.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20B0721

Laboratory Sample ID(s):

20B0721-01 thru 20B0721-03

Sample Date(s):

02/17/2020

List RCP Methods Used:

SW-846 8260C-D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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:  **Position:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 02/21/20

Name of Laboratory: Con-Test Analytical Laboratory

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

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
024A	02 00 00	02/06/20	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Foundation Stone (gradation)				D-4, Det. 1	2	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christoper Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: February 6, 2020

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 024A **ITEM NO.:** 1

DESCRIPTION: 2" Crush Stone Gradation (as a substitute for 1" Crushed Stone)

RECOMMENDED ACTION:

- ☐ 1 - Furnish As Submitted
- ☒ 2 - Furnish As Noted
- ☐ 3 - Revise and Resubmit
- ☐ 4 - Rejected
- ☐ 5 - Acknowledgement
- ☐ See Attached Remarks
- ☐ See Individual Item Actions Below

REMARKS:

Accepted as a substitution for 1-in crushed stone per RFI-008 response.

This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

GRAIN SIZE DISTRIBUTION TEST DATA

8/9/2018

Client: Herb Holden Trucking — Date:08/09/2018
Project: In House Testing
Project Number: N/A
Location: Onsite (HHT) — Date:08/09/2018
Depth: N/A — **Sample Number:** 486-18
Material Description: 2" Crushed stone
Liquid Limit: N/A — **Plastic Limit:** N/A
USCS Classification: GP
Testing Remarks: ASTM C136,C117
Tested by: SA — **Checked by:** IC
Material specification: D.O.T. M.01.01 # 3

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 4170.80
Tare WL = 0.00
Minus #200 from wash = 0.3%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
4182.70	0.00	0.00	2 1/2"	0.00	100.0	0.0	100.0	100.0	
			2"	237.20	94.3	5.7	90.0	100.0	
			1 1/2"	1268.40	69.7	30.3	35.0	70.0	
			1"	3558.80	14.9	85.1	0.0	15.0	
			3/4"	3955.90	5.4	94.6			
			1/2"	4138.40	1.1	98.9	0.0	5.0	

Fractional Components

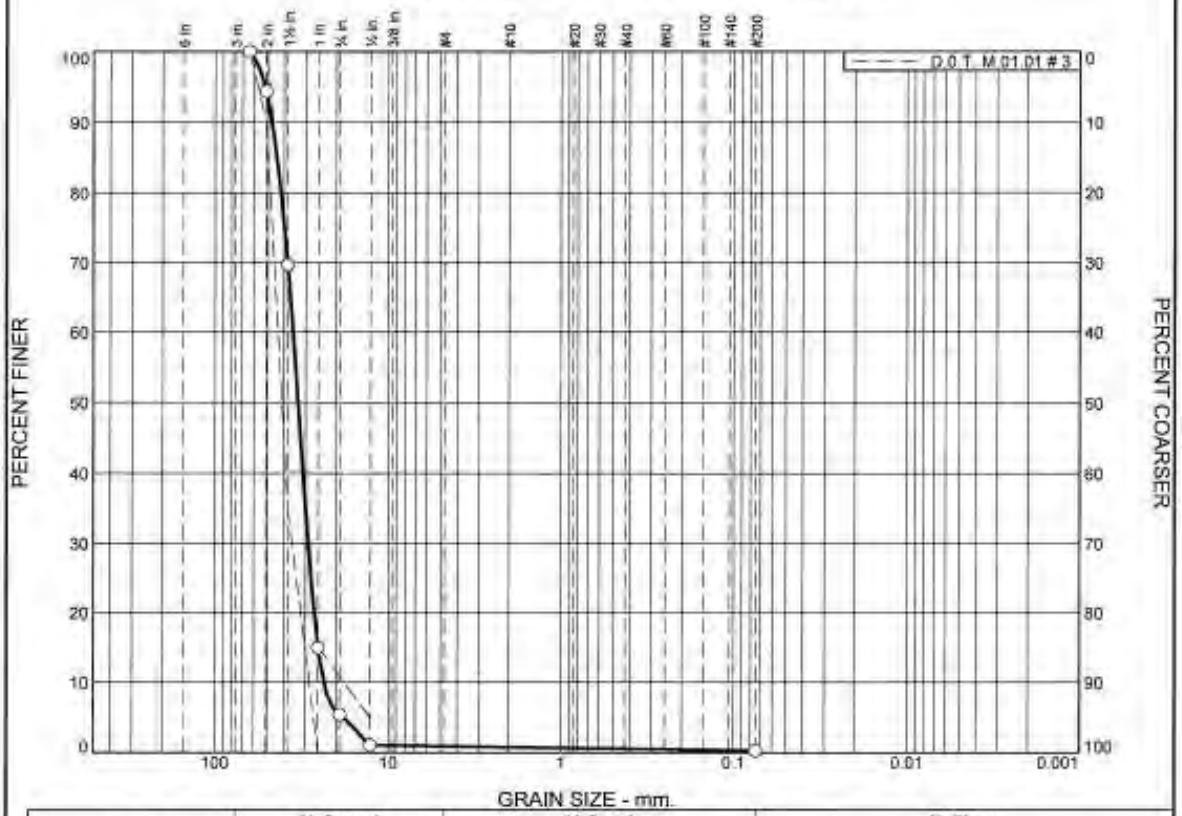
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	94.6	4.5	99.1	0.1	0.3	0.2	0.6			0.3

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
18.1991	23.5585	25.4254	26.7686	29.0169	31.1050	33.2260	35.5211	41.6880	43.9905	46.9965	51.5967

Fineness Modulus	C_u	C_c
8.20	1.51	1.01

Tri State Materials Testing Lab

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	94.6	4.5	0.1	0.3	0.2	0.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	43.9905	35.5211	33.2260	29.0169	25.4254	23.5585	1.01	1.51

Material Description	USCS	AASHTO
○ 2" Crushed stone	GP	

Project No. N/A **Client:** Herb Holden Trucking
Project: In House Testing

○ **Source:** Onsite (HHT) Date:08/09/2018

Remarks:
○ ASTM C136,C117

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: SA **Checked By:** IC

HERB HOLDEN TRUCKING, INC
SINCE 1961

59 Broad Brook Rd
Broad Brook, CT 06016
860-623-8855 Office
860-627-7896 Fax
www.holdeninc.com

RE: Eversource Berlin, CT

To Whom It May Concern:

This letter is to certify that Herb Holden Trucking, Inc. is supplying Strategic Environmental Services with gravel and stone for the Eversource project located at 107 Selden St Berlin, CT. These products have originated from a virgin bank sources. Our gravel source is located at 66 Wapping Rd in Broad Brook, CT. Our stone quarry is located at 311 East Mountain Rd in Westfield, MA. At these locations all materials are either screened or crushed to make State of CT certified gravels, backfills and septic sands. All materials are mined from these locations and are free of any foreign materials.

Regards,

Aaron Dillon
Account Manager
aarondillon@holdeninc.com

Shop Drawing Transmittal

Weston & Sampson

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
025B	31 37 00	04/15/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Southington, CT 06489

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Modified Rip Rap					1 CMB	
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christopher M. Berthiaume Engineer II

June 8, 2018

Charter Contracting
15 Exchange Place
Jersey City, NJ

Att.: Rey Yanga

RE: Textron Remediation

Gentlemen:

The following gradations were run at our East Granby, CT. laboratory and meets ST CT DOT specifications.

CONNDOT Modified Rip-Rap

Spec.	Sieves	Weight	% Retained
0%	10”	0	0.0
20-50%	6”	28.4	20.5
30-60%	4”	45.1	32.5
30-40%	2”	42.7	30.8
10-20%	1”	17.2	12.4
0-10%	Pan	5.3	3.82

GALASSO MATERIALS, L.L.C

Tyler LaBarbera
Tyler LaBarbera
Quality Control Supervisor

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
026A	02 00 00	03/04/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Gravel Backfill					2	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christopher M. Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: March 12, 2020

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 026A **ITEM NO.:** 1

DESCRIPTION: Gravel Borrow

RECOMMENDED ACTION:

☐ 1 - Furnish As Submitted ☒ 2 - Furnish As Noted ☐ 3 - Revise and Resubmit

☐ 4 - Rejected ☐ 5 - Acknowledgement ☐ See Attached Remarks

☐ See Individual Item Actions Below

REMARKS:

This sample is furnish as noted for the following reason: optimal density by modified proctor is still a required element of the submittal. However, the density result is FYI and not for acceptance so this material is approved.

Please ensure that the density result is submitted before any compaction testing for this material is necessary.

=====

The gradation has been accepted, for the same reason specified in Transmittal 023.

The plasticity remains accepted, as initially indicated on 026A.

I have added in the Lab Report for WO#20B0721, which contains the 3 additional VOC samples.

The chemical analytical data is acceptable to WSE and ES, as had been previously discussed during meetings and by email/phone calls, including verbal approval from Eversource during the 3/12/20 progress meeting.

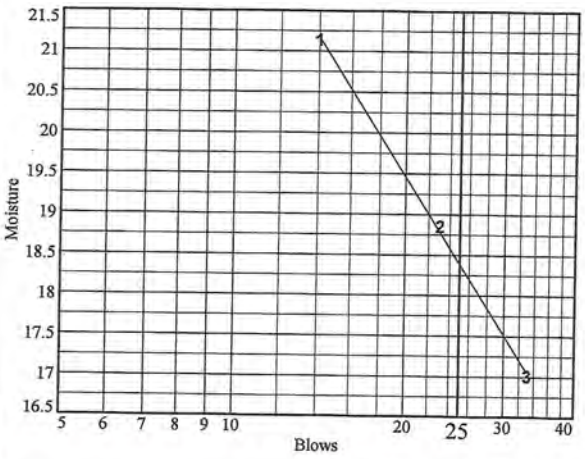
This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

LIQUID AND PLASTIC LIMIT TEST DATA

Client: Strategic Enviromental Services,Inc
Date: 12/22/2019
Project: Eversource settling basin,Berlin CT
Location: Offsite (Herb Holden)
Depth: N/A
Sample Number: 881-19
Material Description: 2 1/2" Minus reddish brown bankrun gravel and sand
%<#40: 17.8 **%<#200:** 4.9 **USCS:** SP **AASHTO:** A-1-a
Tested by: N/A
Checked by: N/A
Testing Remarks: ASTM D 4318

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	42.4	41.6	44.7			
Dry+Tare	35.0	35.0	38.2			
Tare	0	0	0			
# Blows	14	23	33			
Moisture	21.1	18.9	17.0			



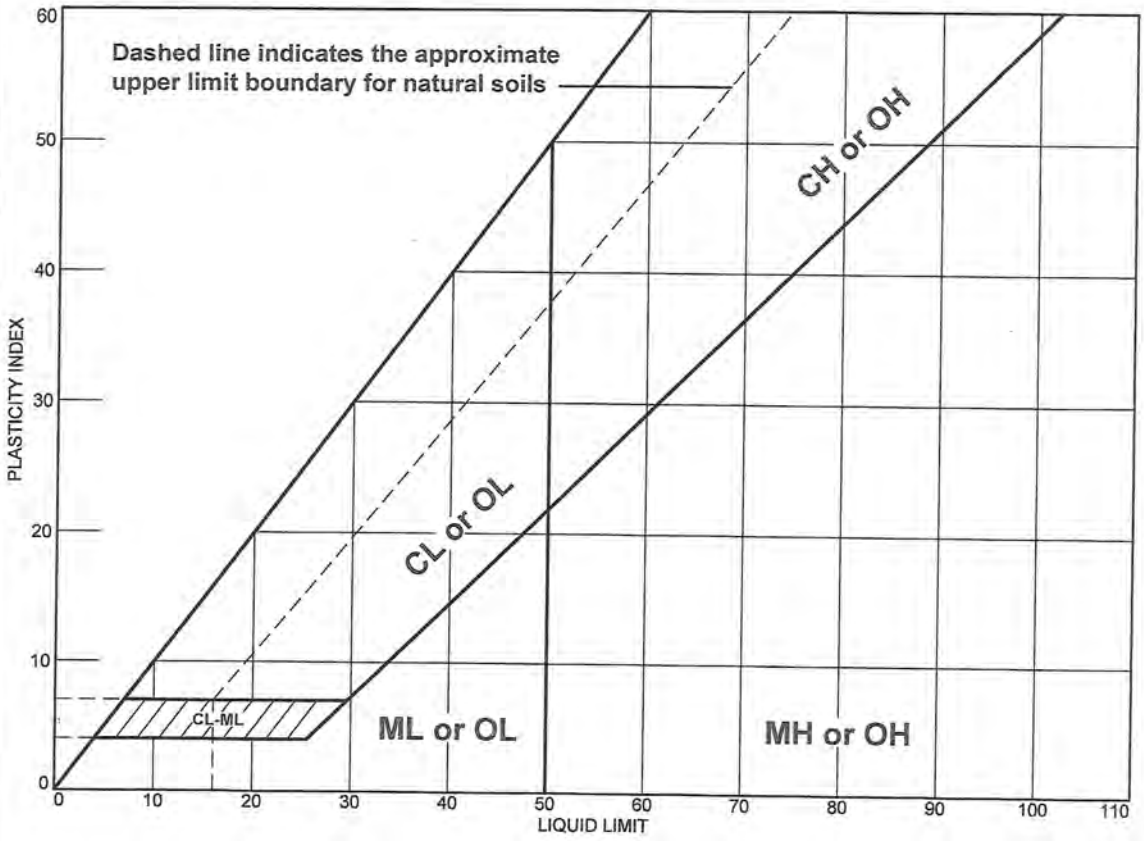
Liquid Limit= 18
Plastic Limit= NP
Plasticity Index= NP
Natural Moisture= N/A

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare					
Dry+Tare					
Tare					
Moisture					

Tri State Materials Testing Lab

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	2 1/2" Minus reddish brown bankrun gravel and sand	18	NP	NP	17.8	4.9	SP

Project No. **Client:** Strategic Enviromental Services,Inc

Project: Eversource settling basin,Berlin CT

● **Source:** Offsite (Herb Holden) **Depth:** N/A **Sample No.:** 881-19

Remarks:
● ASTM D 4318

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: N/A **Checked By:** N/A

GRAIN SIZE DISTRIBUTION TEST DATA

5/25/2019

Client: : Herb Holden Trucking — Date: 05/25/2019
Project: : In House Testing
Location: Onsite Quarry — Date: 05/25/2019
Depth: N/A — **Sample Number:** 389-19
Material Description: 3" Minus bankrun gravel with sand, trace fines
Liquid Limit: N/A — **Plastic Limit:** N/A
USCS Classification: GP — **AASHTO Classification:** N/A
Testing Remarks: ASTM C 136, C 117(Material meet the D.O.T structural fill, granular fill and sub-base spec)
Tested by: JC — **Checked by:** HC
Material specification: D.O.T. M.02.06 -A

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 3970.00
Tare Wt. = 0.00
Minus #200 from wash = 4.2%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
4143.50	0.00	0.00	3"	0.00	100.0	0.0			
			2 1/2"	508.40	87.7	12.3			
			2"	861.90	79.2	20.8			
			1 1/2"	1023.40	75.3	24.7	55.0	100.0	
			3/4"	1258.90	69.6	30.4			
			1/4"	1948.50	53.0	47.0	25.0	60.0	
			#4	2017.00	51.3	48.7			
			#10	2283.60	44.9	55.1	15.0	45.0	
			#40	3115.20	24.8	75.2	5.0	25.0	
			#100	3877.10	6.4	93.6	0.0	10.0	
			#200	3967.30	4.3	95.7	0.0	5.0	

Fractional Components

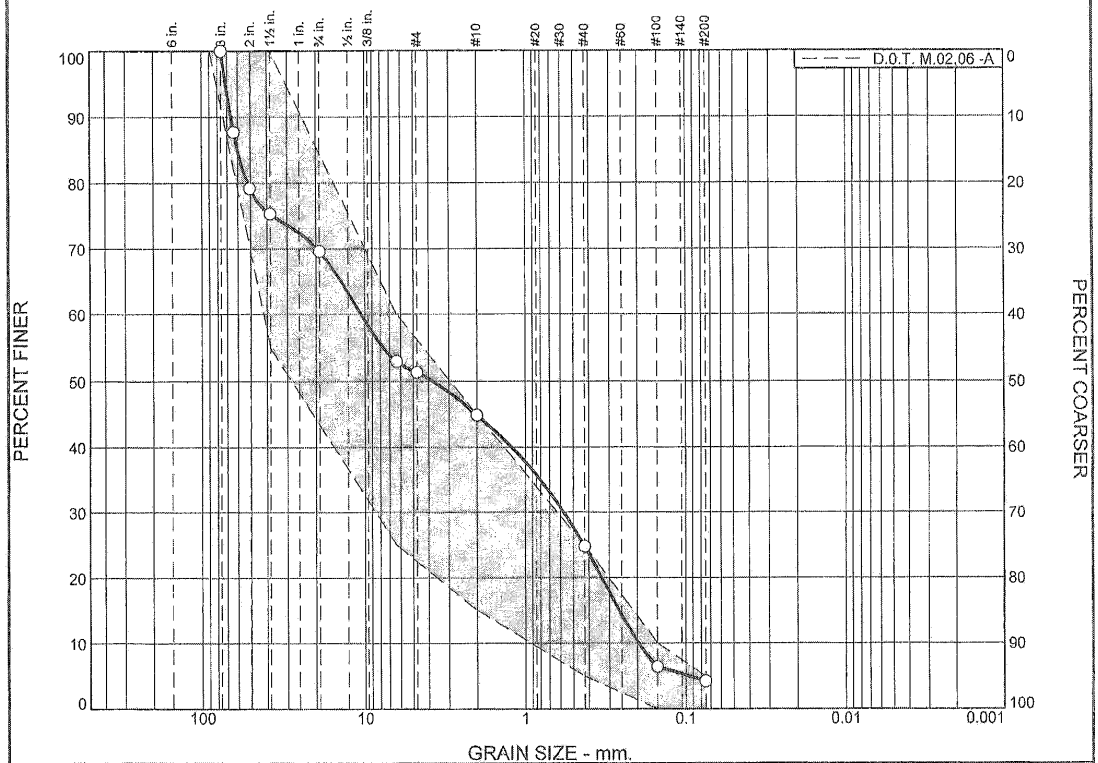
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	30.4	18.3	48.7	6.4	20.1	20.5	47.0			4.3

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0952	0.1971	0.2601	0.3333	0.5720	1.2204	3.7774	10.5468	52.4285	60.1969	65.9795	71.0990

Fineness Modulus	C_u	C_c
5.04	53.50	0.16

Tri State Materials Testing Lab

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	30.4	18.3	6.4	20.1	20.5	4.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	60.1969	10.5468	3.7774	0.5720	0.2601	0.1971	0.16	53.50

Material Description	USCS	AASHTO
○ 3" Minus bankrun gravel with sand, trace fines	GP	N/A

Project No. **Client:** : Herb Holden Trucking

Project: : In House Testing

○ **Source:** Onsite Quarry Date: 05/25/2019

Remarks:
○ ASTM C 136, C 117(Material meet the D.O.T structural fill, granular fill and sub-base spec)

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: IC **Checked By:** HC

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 27, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20A0519

Enclosed are results of analyses for samples received by the laboratory on January 13, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/27/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0519

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden Backfill BS-1	20A0519-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - re-running thallium by 6020 - 2/26/2020 mmk



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8081B

Qualifications:

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD
B250059-BS1, B250059-BSD1

SW-846 8260C-D

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

SW-846 8270D-E

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

Hexachlorocyclopentadiene
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

2-Nitroaniline
S045005-CCV1

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

4-Nitrophenol
S045005-CCV1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

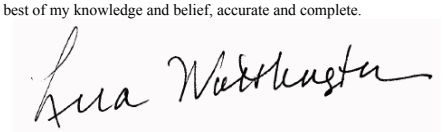
Analyte & Samples(s) Qualified:

2-Nitroaniline
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

4-Nitrophenol
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Toluene	0.0027	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.5	70-130		1/14/20 14:09
Toluene-d8	99.9	70-130		1/14/20 14:09
4-Bromofluorobenzene	101	70-130		1/14/20 14:09

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1	V-05	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitroaniline	ND	0.34	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitrophenol	ND	0.67	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	83.4	30-130			1/27/20 9:28
Phenol-d6	87.8	30-130			1/27/20 9:28
Nitrobenzene-d5	89.6	30-130			1/27/20 9:28
2-Fluorobiphenyl	115	30-130			1/27/20 9:28
2,4,6-Tribromophenol	84.2	30-130			1/27/20 9:28
p-Terphenyl-d14	98.0	30-130			1/27/20 9:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Aldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
alpha-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
beta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
delta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
gamma-BHC (Lindane) [1]	ND	0.0019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Chlordane [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDD [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDE [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDT [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Dieldrin [1]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan I [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan II [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan sulfate [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin aldehyde [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin ketone [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor epoxide [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Hexachlorobenzene [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Methoxychlor [1]	ND	0.048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Toxaphene [1]	ND	0.095	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.5	30-150		1/15/20 23:52
Decachlorobiphenyl [2]	75.4	30-150		1/15/20 23:52
Tetrachloro-m-xylene [1]	75.1	30-150		1/15/20 23:52
Tetrachloro-m-xylene [2]	67.6	30-150		1/15/20 23:52

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1221 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1232 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1242 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1248 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1254 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1260 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1262 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1268 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		1/23/20 18:05
Decachlorobiphenyl [2]	95.9	30-150		1/23/20 18:05
Tetrachloro-m-xylene [1]	93.6	30-150		1/23/20 18:05
Tetrachloro-m-xylene [2]	95.8	30-150		1/23/20 18:05

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	1/15/20	1/17/20 3:16	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	68.4	50-150		1/17/20 3:16

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Arsenic	2.5	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Barium	25	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Beryllium	0.21	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Chromium	7.4	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Copper	5.7	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Lead	2.9	0.50	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	1/22/20	1/23/20 11:54	CJV
Nickel	5.6	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Silver	ND	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Thallium	ND	0.085	mg/Kg dry	5		SW-846 6020B	2/26/20	2/26/20 19:15	MJH
Vanadium	16	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Zinc	14	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH

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Project Location: Berlin, CT
Sample Description:
Work Order: 20A0519
Date Received: 1/13/2020
Field Sample #: Herb Holden Backfill BS-1
Sampled: 1/13/2020 07:00
Sample ID: 20A0519-01
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.2		% Wt	1		SM 2540G	1/23/20	1/24/20 14:31	CBM

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250058	30.0	1.00	01/15/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250713	01/23/20

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250477	1.54	50.0	01/21/20

Prep Method: SW-846 3050B-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B253045	1.51	50.0	02/26/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250544	0.612	50.0	01/22/20

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250059	10.8	10.0	01/15/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250482	10.7	10.0	01/21/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B249988	4.57	10.0	01/14/20

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250825	30.6	1.00	01/24/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0421*		mg/Kg wet	0.0500		84.3	70-130			
Surrogate: Toluene-d8	*0.0491*		mg/Kg wet	0.0500		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0514*		mg/Kg wet	0.0500		103	70-130			
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
Acetone	0.170	0.10	mg/Kg wet	0.200		85.1	40-160			
Acrylonitrile	0.0184	0.0060	mg/Kg wet	0.0200		91.8	70-130			
Benzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromodichloromethane	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Bromoform	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromomethane	0.0169	0.010	mg/Kg wet	0.0200		84.7	40-160			V-34
2-Butanone (MEK)	0.180	0.040	mg/Kg wet	0.200		90.2	40-160			
n-Butylbenzene	0.0163	0.0020	mg/Kg wet	0.0200		81.5	70-130			
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Carbon Disulfide	0.179	0.0060	mg/Kg wet	0.200		89.4	70-130			
Carbon Tetrachloride	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0179	0.020	mg/Kg wet	0.0200		89.3	70-130			
Chloroform	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130			
Chloromethane	0.0159	0.010	mg/Kg wet	0.0200		79.7	40-160			
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
4-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130			
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
trans-1,4-Dichloro-2-butene	0.0183	0.0040	mg/Kg wet	0.0200		91.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.0183	0.020	mg/Kg wet	0.0200		91.3	40-160			
1,1-Dichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,2-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		82.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
cis-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
trans-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
1,3-Dichloropropane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
2,2-Dichloropropane	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130			
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Hexachlorobutadiene	0.0208	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		91.1	70-130			
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.0	70-130			
Methylene Chloride	0.0185	0.020	mg/Kg wet	0.0200		92.5	70-130			
4-Methyl-2-pentanone (MIBK)	0.183	0.020	mg/Kg wet	0.200		91.6	40-160			
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.4	70-130			
n-Propylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Tetrachloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Tetrahydrofuran	0.0176	0.010	mg/Kg wet	0.0200		87.8	70-130			V-16
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,2,3-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,1,1-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0181	0.010	mg/Kg wet	0.0200		90.4	40-160			
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0185	0.010	mg/Kg wet	0.0200		92.4	70-130			
1,2,4-Trimethylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
Vinyl Chloride	0.0171	0.010	mg/Kg wet	0.0200		85.7	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		mg/Kg wet	0.0500		82.4	70-130			
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0500*		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-06, V-19
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-06
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.62*		mg/Kg wet	6.67		84.4	30-130				
Surrogate: Nitrobenzene-d5	*2.79*		mg/Kg wet	3.33		83.6	30-130				
Surrogate: 2-Fluorobiphenyl	*3.49*		mg/Kg wet	3.33		105	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.47*		mg/Kg wet	6.67		97.1	30-130				
Surrogate: p-Terphenyl-d14	*3.29*		mg/Kg wet	3.33		98.8	30-130				
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.1	40-140				
Aniline	1.07	0.34	mg/Kg wet	1.67		64.0	40-140			V-05	†
Anthracene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140				
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.2	40-140				
Benzo(a)pyrene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Benzo(b)fluoranthene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140				
Benzo(g,h,i)perylene	1.69	0.17	mg/Kg wet	1.67		101	40-140				
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140				
Bis(2-chloroethoxy)methane	1.39	0.34	mg/Kg wet	1.67		83.2	40-140				
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140				
Bis(2-chloroisopropyl)ether	1.40	0.34	mg/Kg wet	1.67		84.2	40-140				
Bis(2-Ethylhexyl)phthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.67		90.9	40-140				
Butylbenzylphthalate	1.52	0.34	mg/Kg wet	1.67		91.3	40-140				
Carbazole	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
4-Chloroaniline	0.984	0.66	mg/Kg wet	1.67		59.0	40-140				†
4-Chloro-3-methylphenol	1.49	0.66	mg/Kg wet	1.67		89.3	30-130				
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140				
2-Chlorophenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130				
4-Chlorophenylphenylether	1.43	0.34	mg/Kg wet	1.67		86.0	40-140				
Chrysene	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
Dibenz(a,h)anthracene	1.62	0.17	mg/Kg wet	1.67		96.9	40-140				
Dibenzofuran	1.47	0.34	mg/Kg wet	1.67		88.5	40-140				
Di-n-butylphthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
3,3-Dichlorobenzidine	1.23	0.17	mg/Kg wet	1.67		73.9	40-140				†
2,4-Dichlorophenol	1.50	0.34	mg/Kg wet	1.67		90.3	30-130				
Diethylphthalate	1.43	0.34	mg/Kg wet	1.67		85.9	40-140				
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.4	30-130				
Dimethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.9	40-140				
4,6-Dinitro-2-methylphenol	1.80	0.34	mg/Kg wet	1.67		108	30-130			V-06, V-19	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
2,4-Dinitrophenol	2.02	0.66	mg/Kg wet	1.67		121	30-130			V-06	
2,4-Dinitrotoluene	1.67	0.34	mg/Kg wet	1.67		100	40-140				
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		99.3	40-140				
Di-n-octylphthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140				
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140				
Fluorene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140				
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.3	40-140				
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140				
Hexachlorocyclopentadiene	1.28	0.34	mg/Kg wet	1.67		76.5	30-140				
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		75.3	40-140				
Indeno(1,2,3-cd)pyrene	1.77	0.17	mg/Kg wet	1.67		106	40-140				
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.4	40-140				
2-Methylnaphthalene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140				
2-Methylphenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130				
3/4-Methylphenol	1.40	0.34	mg/Kg wet	1.67		83.8	30-130				
Naphthalene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140				
2-Nitroaniline	1.91	0.34	mg/Kg wet	1.67		115	40-140				
3-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.3	40-140				†
4-Nitroaniline	1.55	0.34	mg/Kg wet	1.67		93.0	40-140				
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.6	40-140				
2-Nitrophenol	1.62	0.34	mg/Kg wet	1.67		97.1	30-130				
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.3	10-130				
N-Nitrosodiphenylamine/Diphenylamine	1.55	0.34	mg/Kg wet	1.67		92.8	40-140				
N-Nitrosodi-n-propylamine	1.31	0.34	mg/Kg wet	1.67		78.5	40-140				
Pentachloronitrobenzene	1.64	0.34	mg/Kg wet	1.67		98.3	40-140				
Pentachlorophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130				
Phenanthrene	1.50	0.17	mg/Kg wet	1.67		90.3	40-140				
Phenol	1.31	0.34	mg/Kg wet	1.67		78.7	20-130				
Pyrene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140				
Pyridine	0.690	0.34	mg/Kg wet	1.67		41.4	10-140				†
1,2,4,5-Tetrachlorobenzene	1.41	0.34	mg/Kg wet	1.67		84.8	40-140				
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
2,4,5-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.6	30-130				
2,4,6-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.5	30-130				
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.66*		mg/Kg wet	6.67		84.9	30-130				
Surrogate: Nitrobenzene-d5	*2.92*		mg/Kg wet	3.33		87.7	30-130				
Surrogate: 2-Fluorobiphenyl	*3.54*		mg/Kg wet	3.33		106	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.49*		mg/Kg wet	6.67		97.4	30-130				
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg wet	3.33		94.4	30-130				
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.50	0.17	mg/Kg wet	1.67		89.7	40-140	3.35	30		
Acenaphthylene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140	3.80	30		
Aniline	1.07	0.34	mg/Kg wet	1.67		63.9	40-140	0.0312	50	V-05	† ‡
Anthracene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140	2.39	30		
Benzo(a)anthracene	1.52	0.17	mg/Kg wet	1.67		91.4	40-140	3.50	30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	1.71	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.5	40-140	1.84	30		
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140	1.86	30		
Benzo(k)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	2.13	30		
Bis(2-chloroethoxy)methane	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	1.22	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	0.00	30		
Bis(2-chloroisopropyl)ether	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	1.58	30		
Bis(2-Ethylhexyl)phthalate	1.50	0.34	mg/Kg wet	1.67		90.0	40-140	1.77	30		
4-Bromophenylphenylether	1.59	0.34	mg/Kg wet	1.67		95.1	40-140	4.58	30		
Butylbenzylphthalate	1.55	0.34	mg/Kg wet	1.67		93.0	40-140	1.82	30		
Carbazole	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	2.24	30		
4-Chloroaniline	0.998	0.66	mg/Kg wet	1.67		59.9	40-140	1.45	30		†
4-Chloro-3-methylphenol	1.50	0.66	mg/Kg wet	1.67		90.1	30-130	0.869	30		
2-Chloronaphthalene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	3.93	30		
2-Chlorophenol	1.42	0.34	mg/Kg wet	1.67		84.9	30-130	3.47	30		
4-Chlorophenylphenylether	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	3.81	30		
Chrysene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	3.41	30		
Dibenz(a,h)anthracene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140	2.73	30		
Dibenzofuran	1.52	0.34	mg/Kg wet	1.67		91.3	40-140	3.09	30		
Di-n-butylphthalate	1.50	0.34	mg/Kg wet	1.67		89.7	40-140	1.41	30		
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	2.96	30		† ‡
2,4-Dichlorophenol	1.55	0.34	mg/Kg wet	1.67		93.3	30-130	3.29	30		
Diethylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	1.52	30		
2,4-Dimethylphenol	1.39	0.34	mg/Kg wet	1.67		83.5	30-130	2.60	30		
Dimethylphthalate	1.45	0.34	mg/Kg wet	1.67		86.9	40-140	2.40	50		
4,6-Dinitro-2-methylphenol	1.86	0.34	mg/Kg wet	1.67		112	30-130	3.52	50	V-06, V-19	
2,4-Dinitrophenol	2.12	0.66	mg/Kg wet	1.67		127	30-130	4.75	50	V-06	
2,4-Dinitrotoluene	1.70	0.34	mg/Kg wet	1.67		102	40-140	2.00	30		
2,6-Dinitrotoluene	1.69	0.34	mg/Kg wet	1.67		101	40-140	2.17	30		
Di-n-octylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	0.206	30		
Fluoranthene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	3.35	30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	3.16	30		
Hexachlorobenzene	1.53	0.34	mg/Kg wet	1.67		92.0	40-140	4.11	30		
Hexachlorobutadiene	1.38	0.34	mg/Kg wet	1.67		82.5	40-140	3.91	30		
Hexachlorocyclopentadiene	1.34	0.34	mg/Kg wet	1.67		80.4	30-140	4.97	50		
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	1.50	50		
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.67		107	40-140	0.995	50		
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	0.116	30		
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140	3.45	30		
2-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.4	30-130	3.71	30		
3/4-Methylphenol	1.43	0.34	mg/Kg wet	1.67		85.7	30-130	2.20	30		
Naphthalene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	2.57	30		
2-Nitroaniline	1.87	0.34	mg/Kg wet	1.67		112	40-140	2.17	30		
3-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	3.11	30		†
4-Nitroaniline	1.58	0.34	mg/Kg wet	1.67		95.0	40-140	2.15	30		
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	0.239	30		
2-Nitrophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130	4.03	30		
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.5	10-130	0.168	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.58	0.34	mg/Kg wet	1.67		94.6	40-140	1.94	30		
N-Nitrosodi-n-propylamine	1.33	0.34	mg/Kg wet	1.67		80.0	40-140	1.94	30		
Pentachloronitrobenzene	1.70	0.34	mg/Kg wet	1.67		102	40-140	3.65	30		
Pentachlorophenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130	4.02	50		
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140	2.28	30		
Phenol	1.35	0.34	mg/Kg wet	1.67		80.8	20-130	2.58	30		
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140	2.84	30		
Pyridine	0.713	0.34	mg/Kg wet	1.67		42.8	10-140	3.33	50		†
1,2,4,5-Tetrachlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.8	40-140	4.58	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20						
1,2,4-Trichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	3.36	30	
2,4,5-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.0	30-130	3.66	30	
2,4,6-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.4	30-130	4.24	50	
Surrogate: 2-Fluorophenol	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Phenol-d6	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Nitrobenzene-d5	*2.90*		mg/Kg wet	3.33		87.0	30-130			
Surrogate: 2-Fluorobiphenyl	*3.65*		mg/Kg wet	3.33		110	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.81*		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	*3.25*		mg/Kg wet	3.33		97.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
Blank (B250059-BLK1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.151*		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.139*		mg/Kg wet	0.200		69.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS (B250059-BS1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
alpha-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
gamma-Chlordane	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
gamma-Chlordane [2C]	0.086	0.0050	mg/Kg wet	0.100		86.1	40-140			
Alachlor	0.087	0.020	mg/Kg wet	0.100		87.0	40-140			
Alachlor [2C]	0.091	0.020	mg/Kg wet	0.100		90.9	40-140			
Aldrin	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140			
Aldrin [2C]	0.082	0.0050	mg/Kg wet	0.100		82.5	40-140			
alpha-BHC	0.087	0.0050	mg/Kg wet	0.100		86.9	40-140			
alpha-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140			
beta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
beta-BHC [2C]	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140			
delta-BHC	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		81.2	40-140			
gamma-BHC (Lindane)	0.078	0.0020	mg/Kg wet	0.100		77.9	40-140			
gamma-BHC (Lindane) [2C]	0.078	0.0020	mg/Kg wet	0.100		78.3	40-140			
4,4'-DDD	0.096	0.0040	mg/Kg wet	0.100		96.1	40-140			V-06
4,4'-DDD [2C]	0.091	0.0040	mg/Kg wet	0.100		91.2	40-140			
4,4'-DDE	0.090	0.0040	mg/Kg wet	0.100		90.3	40-140			
4,4'-DDE [2C]	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140			
4,4'-DDT	0.093	0.0040	mg/Kg wet	0.100		92.8	40-140			
4,4'-DDT [2C]	0.085	0.0040	mg/Kg wet	0.100		84.6	40-140			
Dieldrin	0.087	0.0040	mg/Kg wet	0.100		87.4	40-140			
Dieldrin [2C]	0.084	0.0040	mg/Kg wet	0.100		84.4	40-140			
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140			
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.1	40-140			
Endosulfan II [2C]	0.087	0.0080	mg/Kg wet	0.100		86.7	40-140			
Endosulfan Sulfate	0.096	0.0080	mg/Kg wet	0.100		96.0	40-140			
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		87.5	40-140			
Endrin	0.092	0.0080	mg/Kg wet	0.100		92.0	40-140			
Endrin [2C]	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140			
Endrin Aldehyde	0.090	0.0080	mg/Kg wet	0.100		90.3	40-140			
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.6	40-140			
Endrin Ketone	0.089	0.0080	mg/Kg wet	0.100		89.4	40-140			
Endrin Ketone [2C]	0.084	0.0080	mg/Kg wet	0.100		84.4	40-140			
Heptachlor	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
Heptachlor [2C]	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140			
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140			
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
Hexachlorobenzene	0.087	0.0060	mg/Kg wet	0.100		86.9	40-140			
Hexachlorobenzene [2C]	0.081	0.0060	mg/Kg wet	0.100		81.1	40-140			
Methoxychlor	0.092	0.050	mg/Kg wet	0.100		91.8	40-140			
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.100		88.6	40-140			
Surrogate: Decachlorobiphenyl	*0.166*		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		72.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS Dup (B250059-BSD1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.077	0.0050	mg/Kg wet	0.100		77.1	40-140	8.06	30	
alpha-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	7.80	30	
gamma-Chlordane	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.04	30	
gamma-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		79.4	40-140	8.09	30	
Alachlor	0.080	0.020	mg/Kg wet	0.100		80.3	40-140	8.03	30	
Alachlor [2C]	0.081	0.020	mg/Kg wet	0.100		80.7	40-140	11.9	30	
Aldrin	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.36	30	
Aldrin [2C]	0.076	0.0050	mg/Kg wet	0.100		76.0	40-140	8.14	30	
alpha-BHC	0.084	0.0050	mg/Kg wet	0.100		84.5	40-140	2.90	30	
alpha-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		73.3	40-140	4.16	30	
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140	5.26	30	
beta-BHC [2C]	0.079	0.0050	mg/Kg wet	0.100		79.0	40-140	5.34	30	
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140	3.08	30	
delta-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	4.92	30	
gamma-BHC (Lindane)	0.075	0.0020	mg/Kg wet	0.100		74.7	40-140	4.15	30	
gamma-BHC (Lindane) [2C]	0.074	0.0020	mg/Kg wet	0.100		74.4	40-140	5.11	30	
4,4'-DDD	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140	6.93	30	V-06
4,4'-DDD [2C]	0.084	0.0040	mg/Kg wet	0.100		83.7	40-140	8.58	30	
4,4'-DDE	0.083	0.0040	mg/Kg wet	0.100		83.4	40-140	7.90	30	
4,4'-DDE [2C]	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	8.81	30	
4,4'-DDT	0.087	0.0040	mg/Kg wet	0.100		86.5	40-140	6.99	30	
4,4'-DDT [2C]	0.078	0.0040	mg/Kg wet	0.100		78.1	40-140	7.98	30	
Dieldrin	0.081	0.0040	mg/Kg wet	0.100		81.2	40-140	7.43	30	
Dieldrin [2C]	0.077	0.0040	mg/Kg wet	0.100		76.8	40-140	9.40	30	
Endosulfan I	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	7.73	30	
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140	7.90	30	
Endosulfan II	0.084	0.0080	mg/Kg wet	0.100		83.7	40-140	7.44	30	
Endosulfan II [2C]	0.080	0.0080	mg/Kg wet	0.100		79.9	40-140	8.19	30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		88.7	40-140	7.94	30	
Endosulfan Sulfate [2C]	0.080	0.0080	mg/Kg wet	0.100		79.8	40-140	9.14	30	
Endrin	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140	7.10	30	
Endrin [2C]	0.081	0.0080	mg/Kg wet	0.100		81.2	40-140	8.30	30	
Endrin Aldehyde	0.083	0.0080	mg/Kg wet	0.100		82.7	40-140	8.76	30	
Endrin Aldehyde [2C]	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140	10.6	30	
Endrin Ketone	0.083	0.0080	mg/Kg wet	0.100		83.1	40-140	7.28	30	
Endrin Ketone [2C]	0.078	0.0080	mg/Kg wet	0.100		77.9	40-140	8.08	30	
Heptachlor	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	6.65	30	
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		74.4	40-140	6.67	30	
Heptachlor Epoxide	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140	7.60	30	
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		74.9	40-140	7.89	30	
Hexachlorobenzene	0.080	0.0060	mg/Kg wet	0.100		80.4	40-140	7.72	30	
Hexachlorobenzene [2C]	0.074	0.0060	mg/Kg wet	0.100		74.3	40-140	8.77	30	
Methoxychlor	0.084	0.050	mg/Kg wet	0.100		84.5	40-140	8.27	30	
Methoxychlor [2C]	0.081	0.050	mg/Kg wet	0.100		80.9	40-140	9.15	30	
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg wet	0.200		70.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.151*		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.132*		mg/Kg wet	0.200		66.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250482 - SW-846 3540C										
Blank (B250482-BLK1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.1	30-150			
LCS (B250482-BS1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.7	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.0	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.7	40-140			
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg wet	0.200		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		94.8	30-150			
LCS Dup (B250482-BSD1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	2.05	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.7	40-140	1.47	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	2.06	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	0.313	30	
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.189*		mg/Kg wet	0.200		94.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250058 - SW-846 3546										
Blank (B250058-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*1.71*		mg/Kg wet	3.33		51.3	50-150			
LCS (B250058-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	24.9	10	mg/Kg wet	33.3		74.7	60-120			
Surrogate: 2-Fluorobiphenyl	*1.90*		mg/Kg wet	3.33		56.9	50-150			
LCS Dup (B250058-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	25.7	10	mg/Kg wet	33.3		77.1	60-120	3.12	30	
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/Kg wet	3.33		58.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Blank (B250477-BLK1)				Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B250477-BS1)				Prepared: 01/21/20 Analyzed: 01/22/20						
Antimony	245	4.9	mg/Kg wet	147		166	4.2-196.6			
Arsenic	148	4.9	mg/Kg wet	143		103	83.2-117.5			
Barium	405	4.9	mg/Kg wet	415		97.5	82.7-117.6			
Beryllium	178	0.49	mg/Kg wet	179		99.4	83.2-117.3			
Cadmium	55.2	0.49	mg/Kg wet	56.2		98.3	82.9-117.3			
Chromium	97.8	0.98	mg/Kg wet	101		96.8	82.4-116.8			
Copper	63.3	0.98	mg/Kg wet	63.1		100	84.2-115.8			
Lead	133	1.5	mg/Kg wet	125		106	82.4-116.8			
Nickel	110	0.98	mg/Kg wet	108		102	82.9-117.6			
Selenium	78.1	9.8	mg/Kg wet	77.9		100	79.3-120.7			
Silver	34.1	0.98	mg/Kg wet	34.3		99.4	81-119.2			
Thallium	115	4.9	mg/Kg wet	113		101	80.8-118.6			
Vanadium	80.6	2.0	mg/Kg wet	83.7		96.3	79.8-120.7			
Zinc	242	2.0	mg/Kg wet	240		101	80.8-118.8			
LCS Dup (B250477-BSD1)				Prepared & Analyzed: 01/21/20						
Antimony	218	4.9	mg/Kg wet	147		149	4.2-196.6	11.4	30	
Arsenic	132	4.9	mg/Kg wet	143		92.5	83.2-117.5	11.0	30	
Barium	378	4.9	mg/Kg wet	415		91.2	82.7-117.6	6.75	20	
Beryllium	175	0.49	mg/Kg wet	179		97.8	83.2-117.3	1.58	30	
Cadmium	49.7	0.49	mg/Kg wet	56.2		88.4	82.9-117.3	10.6	20	
Chromium	93.2	0.98	mg/Kg wet	101		92.3	82.4-116.8	4.74	30	
Copper	60.8	0.98	mg/Kg wet	63.1		96.4	84.2-115.8	3.96	30	
Lead	113	1.5	mg/Kg wet	125		90.8	82.4-116.8	15.8	30	
Nickel	103	0.98	mg/Kg wet	108		95.0	82.9-117.6	7.04	30	
Selenium	76.5	9.8	mg/Kg wet	77.9		98.3	79.3-120.7	2.06	30	
Silver	35.1	0.98	mg/Kg wet	34.3		102	81-119.2	3.07	30	
Thallium	105	4.9	mg/Kg wet	113		93.0	80.8-118.6	8.62	30	
Vanadium	83.2	2.0	mg/Kg wet	83.7		99.4	79.8-120.7	3.14	30	
Zinc	227	2.0	mg/Kg wet	240		94.6	80.8-118.8	6.41	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Duplicate (B250477-DUP1)		**Source: 20A0519-01**		Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg dry		ND			NC	35	
Arsenic	2.19	1.7	mg/Kg dry		2.52			14.3	35	
Barium	22.7	1.7	mg/Kg dry		25.2			10.3	35	
Beryllium	0.175	0.17	mg/Kg dry		0.213			20.0	35	
Cadmium	ND	0.17	mg/Kg dry		ND			NC	35	
Chromium	6.58	0.34	mg/Kg dry		7.41			12.0	35	
Copper	5.23	0.34	mg/Kg dry		5.75			9.38	35	
Lead	2.34	0.51	mg/Kg dry		2.86			20.0	35	
Nickel	5.40	0.34	mg/Kg dry		5.63			4.08	35	
Selenium	ND	3.4	mg/Kg dry		ND			NC	35	
Silver	ND	0.34	mg/Kg dry		ND			NC	35	
Thallium	ND	1.7	mg/Kg dry		ND			NC	35	
Vanadium	12.2	0.68	mg/Kg dry		16.1			27.8	35	
Zinc	13.1	0.68	mg/Kg dry		13.8			4.98	35	
Matrix Spike (B250477-MS1)		**Source: 20A0519-01**		Prepared & Analyzed: 01/21/20						
Antimony	15.1	1.7	mg/Kg dry	17.1	ND	88.3	75-125			
Arsenic	17.7	1.7	mg/Kg dry	17.1	2.52	88.7	75-125			
Barium	40.2	1.7	mg/Kg dry	17.1	25.2	87.6	75-125			
Beryllium	17.7	0.17	mg/Kg dry	17.1	0.213	102	75-125			
Cadmium	15.7	0.17	mg/Kg dry	17.1	ND	91.9	75-125			
Chromium	23.4	0.34	mg/Kg dry	17.1	7.41	93.6	75-125			
Copper	39.5	0.34	mg/Kg dry	34.2	5.75	98.8	75-125			
Lead	18.6	0.51	mg/Kg dry	17.1	2.86	91.9	75-125			
Nickel	22.4	0.34	mg/Kg dry	17.1	5.63	98.4	75-125			
Selenium	16.8	3.4	mg/Kg dry	17.1	ND	98.1	75-125			
Silver	17.6	0.34	mg/Kg dry	17.1	ND	103	75-125			
Thallium	17.3	1.7	mg/Kg dry	17.1	ND	101	75-125			
Vanadium	31.1	0.68	mg/Kg dry	17.1	16.1	88.0	75-125			
Zinc	46.5	0.68	mg/Kg dry	34.2	13.8	95.7	75-125			
Reference (B250477-SRM1) MRL Check				Prepared & Analyzed: 01/21/20						
Lead	0.440	0.51	mg/Kg wet	0.506		86.8	80-120			
Batch B250544 - SW-846 7471										
Blank (B250544-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B250544-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.13	0.39	mg/Kg wet	7.61		93.7	72.7-127.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250544 - SW-846 7471										
LCS Dup (B250544-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.26	0.38	mg/Kg wet	7.61		95.5	72.7-127.3	1.86	20	
Duplicate (B250544-DUP1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg dry		ND			NC	35	
Matrix Spike (B250544-MS1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	0.342	0.025	mg/Kg dry	0.331	ND	103	75-125			
Batch B253045 - SW-846 3050B										
Blank (B253045-BLK1)				Prepared & Analyzed: 02/26/20						
Thallium	ND	0.083	mg/Kg wet							
LCS (B253045-BS1)				Prepared & Analyzed: 02/26/20						
Thallium	117	0.99	mg/Kg wet	113		103	80.8-118.6			
LCS Dup (B253045-BSD1)				Prepared & Analyzed: 02/26/20						
Thallium	117	1.0	mg/Kg wet	113		103	80.8-118.6	0.263	30	
Duplicate (B253045-DUP1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	ND	0.085	mg/Kg dry		ND			NC	35	
Matrix Spike (B253045-MS1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	17.3	0.34	mg/Kg dry	17.0	ND	102	75-125			

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BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM1	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.63
Endrin [1]	1.64

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.41
Endrin [2]	1.32

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM3	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.02
Endrin [1]	2.10

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.87
Endrin [2]	2.14

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM4	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.97
Endrin [1]	2.64

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BREAKDOWN REPORT

Lab Sample ID:	**S044630-PEM4**	**Analyzed:**	**01/15/2020**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	3.73
Endrin [2]	2.59

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.172	7.143	7.203	0.096	
	2	7.198	7.169	7.229	0.091	5.4
4,4'-DDE	1	6.735	6.705	6.765	0.090	
	2	6.771	6.741	6.801	0.090	0.0
4,4'-DDT	1	7.384	7.355	7.415	0.093	
	2	7.436	7.406	7.466	0.085	9.0
Alachlor	1	6.176	6.145	6.205	0.087	
	2	5.962	5.932	5.992	0.091	4.5
Aldrin	1	6.080	6.051	6.111	0.082	
	2	6.022	5.992	6.052	0.082	0.0
alpha-BHC	1	5.382	5.352	5.412	0.087	
	2	5.336	5.305	5.365	0.076	13.5
alpha-Chlordane	1	6.677	6.647	6.707	0.084	
	2	6.641	6.611	6.671	0.085	1.2
beta-BHC	1	5.630	5.601	5.661	0.084	
	2	5.597	5.567	5.627	0.083	1.2
delta-BHC	1	5.743	5.714	5.774	0.087	
	2	5.778	5.747	5.807	0.081	7.1
Dieldrin	1	6.946	6.917	6.977	0.087	
	2	6.875	6.845	6.905	0.084	3.5
Endosulfan I	1	6.772	6.743	6.803	0.081	
	2	6.678	6.648	6.708	0.082	1.2
Endosulfan II	1	7.283	7.253	7.313	0.090	
	2	7.257	7.227	7.287	0.087	3.4
Endosulfan Sulfate	1	7.937	7.906	7.966	0.096	
	2	7.731	7.702	7.762	0.087	9.8
Endrin	1	7.116	7.086	7.146	0.092	
	2	7.096	7.067	7.127	0.088	4.4
Endrin Aldehyde	1	7.601	7.572	7.632	0.090	
	2	7.515	7.485	7.545	0.086	4.6
Endrin Ketone	1	8.132	8.103	8.163	0.089	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.121	8.092	8.152	0.084	5.8
gamma-BHC (Lindane)	1	5.576	5.547	5.607	0.078	
	2	5.545	5.515	5.575	0.078	0.0
gamma-Chlordane	1	6.582	6.552	6.612	0.081	
	2	6.538	6.509	6.569	0.086	6.0
Heptachlor	1	5.881	5.852	5.912	0.083	
	2	5.816	5.786	5.846	0.080	3.7
Heptachlor Epoxide	1	6.493	6.464	6.524	0.082	
	2	6.406	6.376	6.436	0.081	1.2
Hexachlorobenzene	1	5.278	5.249	5.309	0.087	
	2	5.253	5.223	5.283	0.081	7.1
Methoxychlor	1	7.769	7.738	7.798	0.092	
	2	7.979	7.950	8.010	0.089	3.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.173	7.143	7.203	0.090	
	2	7.198	7.169	7.229	0.084	6.9
4,4'-DDE	1	6.735	6.705	6.765	0.083	
	2	6.771	6.741	6.801	0.082	1.2
4,4'-DDT	1	7.384	7.355	7.415	0.087	
	2	7.436	7.406	7.466	0.078	10.9
Alachlor	1	6.176	6.145	6.205	0.080	
	2	5.962	5.932	5.992	0.081	1.2
Aldrin	1	6.081	6.051	6.111	0.075	
	2	6.022	5.992	6.052	0.076	1.3
alpha-BHC	1	5.382	5.352	5.412	0.084	
	2	5.335	5.305	5.365	0.073	15.2
alpha-Chlordane	1	6.676	6.647	6.707	0.077	
	2	6.641	6.611	6.671	0.079	2.6
beta-BHC	1	5.631	5.601	5.661	0.079	
	2	5.597	5.567	5.627	0.079	0.0
delta-BHC	1	5.744	5.714	5.774	0.084	
	2	5.778	5.747	5.807	0.077	8.7
Dieldrin	1	6.946	6.917	6.977	0.081	
	2	6.875	6.845	6.905	0.077	5.1
Endosulfan I	1	6.773	6.743	6.803	0.075	
	2	6.678	6.648	6.708	0.076	1.3
Endosulfan II	1	7.283	7.253	7.313	0.084	
	2	7.256	7.227	7.287	0.080	4.9
Endosulfan Sulfate	1	7.936	7.906	7.966	0.089	
	2	7.731	7.702	7.762	0.080	10.7
Endrin	1	7.116	7.086	7.146	0.086	
	2	7.096	7.067	7.127	0.081	6.0
Endrin Aldehyde	1	7.601	7.572	7.632	0.083	
	2	7.515	7.485	7.545	0.077	7.5
Endrin Ketone	1	8.132	8.103	8.163	0.083	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.122	8.092	8.152	0.078	6.2
gamma-BHC (Lindane)	1	5.577	5.547	5.607	0.075	
	2	5.545	5.515	5.575	0.074	1.3
gamma-Chlordane	1	6.582	6.552	6.612	0.075	
	2	6.538	6.509	6.569	0.079	5.2
Heptachlor	1	5.881	5.852	5.912	0.077	
	2	5.816	5.786	5.846	0.074	4.0
Heptachlor Epoxide	1	6.494	6.464	6.524	0.076	
	2	6.406	6.376	6.436	0.075	1.3
Hexachlorobenzene	1	5.279	5.249	5.309	0.080	
	2	5.253	5.223	5.283	0.074	7.8
Methoxychlor	1	7.768	7.738	7.798	0.084	
	2	7.980	7.950	8.010	0.081	4.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250482-BS1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250482-BSD1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020B in Soil	
Thallium	VA,NY,NH,NC,ME
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270D-E in Water	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test ANALYTICAL LABORATORY

HAF

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http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

	Strategic Environmental Services, Inc.
Address:	362 Putnam Hill Rd; Sutton, MA 01590
Phone:	508-757-7782
	Eversource Berlin
Project Location:	Berlin CT
Project Number:	
Project Manager:	Paul Saccente
Con-Test Quote Name/Number:	
Invoice Recipient:	accountsreceivable@strategic-es.com
Sampled By:	

7-Day ☐ 10-Day ☑ Due Date:
PFAS 10-Day (std) ☐
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: te@strategic-es.com
Fax To #:

○ Field Filtered
○ Lab to Filter
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	CT DEEP ETPH	VOC 8261	SVOC 8270	CT RSR 15 Metals 6010 7471	Pesticides 8081	PCB's 8082 Soxhlet
1	Herb Holden Backfill BS-1	1/13/20 7am		Comp	S	L						x	x	x	x	x	x

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 1/13/20 12[illegible]	Client Comments: 1) Run TCLP if exceeds 20X Rule 2) See Section 202 Chemical Properties of Soil Materials on attachment for more detail
Received by: (signature)	Date/Time: 1/13/20 123	
Relinquished by: (signature)	Date/Time: 1/13/20 1640	
Received by: (signature)	Date/Time: 1/13/20 1640	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Special Requirements

☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
GA Mobility; Residential DEC
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity

Government	☐	Municipality	☐	MWRA	☐	WRTA	☐
Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:
Frozen 1/13/20 16:40 DI

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

GCE 65215

Paul Saccente

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:52 AM
To: jake@ondrickmr.com
Cc: Paul Saccente
Subject: RE: SES Loam Quote

Se Also:

Non-Polluted Soil:
Non-Polluted Soil shall be granular, well graded friable soil; free of sediment, rubbish, debris, wood, glass, concrete, metal, bricks, ice, snow, tree stumps, roots, clay, organic matter and any non-soil deleterious material; with 25 percent or less passing the No. 200 sieve; no stone greater than two-third (2/3) loose lift thickness, or three (3) inches, whichever is smaller. Soil material acceptable for use shall be classified as GM, GC, SM or SC according to the Unified Soil Classification System and shall have a plasticity index of less than 10.

2.02 CHEMICAL PROPERTIES OF SOIL MATERIALS
A. All soil materials must meet the following specifications for chemical concentrations to be classified as Non-Polluted Soil:
1. Soil defined as unconsolidated geologic material overlying bedrock, but not including sediment, and **not affected by a release of a substance**. A Release is defined as any discharge, spillage, uncontrolled loss, seepage, filtration, leakage, injection, escape, dumping, pumping, pouring, emitting, emptying, or disposal of a substance. A Substance is defined as an element, compound or material, which when added to air, water or soil or sediment may alter the physical, chemical, biological or characteristic of such air, water, soil or sediment. Sediment is defined as unconsolidated material occurring in a stream channel, estuarine waters, or marine waters. (Reference Connecticut Regulation of State Agencies 22a-133k-1(a) – Definitions)
2. No detectable concentrations of petroleum hydrocarbons as determined by CT DEEP ETPH Method with laboratory reporting limits less than the lower of the Analytical Detection Limit (ADL), the Residential Direct Exposure Criteria (RDEC) or the GA PMC;
3. No detectable concentrations of VOCs by EPA Method 8261 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
BERLIN SETTLING BASIN REMEDIATION PROJECT
BERLIN, CONNECTICUT
06/24/2019 02 00 00-7
4. No detectable concentrations of SVOCs by EPA Method 8270 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
5. Concentrations of RSR 15 metals by EPA Methods 6010 and 7471 less than the lower of the High Range Background Concentration listed in the Background Metals Concentrations table below with reporting limits less than the lower of the High Range Background Concentration and the GAPMC by SPLP Method for each metal;
6. No detectable concentrations of pesticides by EPA Method 8081 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;

1

GCE65215

and
7. No detectable concentrations of PCBs by EPA Method 8082 with laboratory reporting limits less than the lower of the ADL, the RDEC, or the GAPMC by SPLP Method.
8. The RDEC is the Residential Criteria provided in Appendix A and the GA, GAA Pollutant Mobility Criteria (GAPMC) provided in Appendix B of the Regulations of Connecticut State Agencies, Section 22a-133k-1 through -3, inclusive.
9. The Contractor shall analyze soil for each analyte for which an RDEC and GAPMC is provided.

Background Metals Concentrations

Metal	**High Range Background Concentration (mg/kg)**
Antimony	ND
Arsenic	5.4
Barium	800
Beryllium	3.5
Cadmium	0.3
Chromium	8.5
Copper	93
Lead	32
Mercury	0.08
Nickel	40
Selenium	49
Silver	0.83
Thallium	1
Vanadium	157
Zinc	130

ND – Not detected above analytical detection limits.

Ryan Gadoury
Strategic Environmental Services, Inc.
362 Putnam Hill Road
Sutton, MA 01590
Office: 508.757.7782 x 119
Cell: (508)-612-2339
Fax.: 508.363.2346

STRATEGIC
ENVIRONMENTAL SERVICES

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:46 AM
To: jake@ondrickmr.com
Cc: Paul Saccente <psaccente@strategic-es.com>
Subject: SES Loam Quote

Thanks again Jake,

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Stantec

Received By MP Date 1/13/20 Time 16:40

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	1
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	2	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 1/13/20 16:40 DI	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D011620.SEC\D0116105.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0116105.D
Data File Path C:\MSDCHEM\4\DATA\D011620.SEC\
Operator RMW
Date Acquired 1/17/1920 2:56
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.65	8520422	9562705	11
C-10	2.29	8787893	9562705	8
C-12	3.21	9099347	9562705	5
C-14	3.92	9391983	9562705	2
C-16	4.53	9561880	9562705	0
C-18	5.07	9707491	9562705	-2
C-20	5.67	9814600	9562705	-3
C-22	6.41	9906304	9562705	-4
C-24	7.25	9971589	9562705	-4
C-26	8.05	9988553	9562705	-4
C-28	8.79	10024972	9562705	-5
C-30	9.47	10056411	9562705	-5
C-32	10.10	9765395	9562705	-2
C-34	10.69	9602263	9562705	0
C-36	11.26	9241478	9562705	3

Samples

20A0519-01
20A0580-01
20A0580-02

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20A0519

Laboratory Sample ID(s):

20A0519-01

Sample Date(s):

01/13/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 6010D, SW-846 7471B, SW-846 8081B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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:  **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **01/27/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 21, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20B0721

Enclosed are results of analyses for samples received by the laboratory on February 17, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/21/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20B0721

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden B5-2	20B0721-01	Soil		SW-846 8260C-D	
Herb Holden B5-3	20B0721-02	Soil		SW-846 8260C-D	
Herb Holden B5-4	20B0721-03	Soil		SW-846 8260C-D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

All results are reported as wet weight. No volume for % solid analysis was provided by the client.

SW-846 8260C-D

Qualifications:

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12

B252449-BS1, S045711-CCV1

V-34

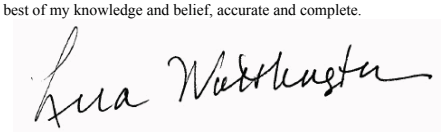
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

20B0721-01[Herb Holden B5-2], 20B0721-02[Herb Holden B5-3], 20B0721-03[Herb Holden B5-4], B252449-BLK1, B252449-BS1, S045711-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.7	70-130		2/18/20 6:31
Toluene-d8	96.8	70-130		2/18/20 6:31
4-Bromofluorobenzene	102	70-130		2/18/20 6:31

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.0	70-130		2/18/20 6:58
Toluene-d8	96.6	70-130		2/18/20 6:58
4-Bromofluorobenzene	103	70-130		2/18/20 6:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Acrylonitrile	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromomethane	ND	0.0073	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Disulfide	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroform	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloromethane	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Naphthalene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Vinyl Chloride	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
m+p Xylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	82.5	70-130			2/18/20 7:25
Toluene-d8	97.5	70-130			2/18/20 7:25
4-Bromofluorobenzene	103	70-130			2/18/20 7:25

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20B0721-01 [Herb Holden B5-2]	B252449	6.53	10.0	02/18/20
20B0721-02 [Herb Holden B5-3]	B252449	6.53	10.0	02/18/20
20B0721-03 [Herb Holden B5-4]	B252449	6.83	10.0	02/18/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0391*		mg/Kg wet	0.0500		78.3	70-130			
Surrogate: Toluene-d8	*0.0481*		mg/Kg wet	0.0500		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
Acetone	0.200	0.10	mg/Kg wet	0.200		100	40-160			
Acrylonitrile	0.0188	0.0060	mg/Kg wet	0.0200		94.0	70-130			
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Bromoform	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
Bromomethane	0.0220	0.010	mg/Kg wet	0.0200		110	40-160			V-34
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.4	40-160			
n-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
sec-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
tert-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Carbon Disulfide	0.209	0.0060	mg/Kg wet	0.200		104	70-130			
Carbon Tetrachloride	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Chlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0233	0.020	mg/Kg wet	0.0200		116	70-130			
Chloroform	0.0168	0.0040	mg/Kg wet	0.0200		84.0	70-130			
Chloromethane	0.0201	0.010	mg/Kg wet	0.0200		101	40-160			
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
trans-1,4-Dichloro-2-butene	0.0178	0.0040	mg/Kg wet	0.0200		89.2	70-130			
Dichlorodifluoromethane (Freon 12)	0.0262	0.020	mg/Kg wet	0.0200		131	40-160			V-20
1,1-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,2-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
1,1-Dichloroethylene	0.0188	0.0040	mg/Kg wet	0.0200		93.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
cis-1,2-Dichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
trans-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130			
2,2-Dichloropropane	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130			
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130			
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
Hexachlorobutadiene	0.0209	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.171	0.020	mg/Kg wet	0.200		85.3	70-130			
Isopropylbenzene (Cumene)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0183	0.0040	mg/Kg wet	0.0200		91.5	70-130			
Methylene Chloride	0.0198	0.020	mg/Kg wet	0.0200		98.9	70-130			
4-Methyl-2-pentanone (MIBK)	0.169	0.020	mg/Kg wet	0.200		84.4	40-160			
Naphthalene	0.0157	0.0040	mg/Kg wet	0.0200		78.7	70-130			
n-Propylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.3	70-130			
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,1-Trichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130			
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0218	0.010	mg/Kg wet	0.0200		109	40-160			
1,2,3-Trichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0217	0.010	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trimethylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Vinyl Chloride	0.0221	0.010	mg/Kg wet	0.0200		110	70-130			
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.6	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0384*		mg/Kg wet	0.0500		76.9	70-130			
Surrogate: Toluene-d8	*0.0484*		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0513*		mg/Kg wet	0.0500		103	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

KAF 20B0721 (3)

con-test ANALYTICAL LABORATORY

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http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page _____ of _____

Company Name:
Address: 362 Putnam Hill Rd; Sutton MA 01590
Phone: (508) 757-7782
Project Name: Eversource Berlin
Project Location: Berlin, CT
Project Number:
Project Manager: Paul Sciacente
Con-Test Quote Name/Number:
Invoice Recipient: accountsreceivable@strategic-es.com
Sampled By:

Requested Turnaround Time
7-Day ✓ 10-Day
PFAS 10-Day (std) Due Date:

Rush Approval Required
1-Day 3-Day
2-Day 4-Day

Dissolved Metals Samples
Field Filtered
Lab to Filter

Orthophosphate Samples
Field Filtered
Lab to Filter

Data Delivery
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To:
Fax To #:

ANALYSIS REQUESTED

VOC 8260

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
1	Herb Holden B5-2			Comp	S	L	✓				
2	Herb Holden B5-3			Comp	S	L	✓				
3	Herb Holden B5-4			Comp	S	L	✓				

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS 9
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

	Date/Time
Relinquished by: (signature)	Date/Time: 11:30 2/17/2020 PM
Received by: (signature) Tom Mai 2/17/2020 11:30	Date/Time:
Relinquished by: (signature) Tom Mai 2/17/2020 1545	Date/Time:
Received by: (signature) 2.6 2/17	Date/Time: 1545
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
GW
Other

Special Requirements
MA MCP Required
MCP Certification Form Required
✓ CT RCP Required
RCP Certification Form Required
MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government Municipality MWRA WRTA
Federal 21 J School
City Brownfield MBTA

Other
Chromatogram
AIHA-LAP,LLC

PCB ONLY
Soxhlet
Non Soxhlet

Lab Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client: Strategic Environmental Services

Received By: SA Date: 2/17 Time: 1545

How were the samples received? In Cooler: T No Cooler: _____ On Ice: T No Ice: _____
Direct from Sampling: _____ Ambient: _____ Melted Ice: _____

Were samples within Temperature? 2-6°C: T By Gun #: 5 Actual Temp: 2.6
By Blank #: _____ Actual Temp: _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client: T Analysis: T Sampler Name: F
Project: T ID's: T Collection Dates/Times: T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F
Are there Rushes? F
Are there Short Holds? F
Is there enough Volume? T
Is there Headspace where applicable? F
Proper Media/Containers Used? T
Were trip blanks received? F
Do all samples have the proper pH? Acid: NA Base: NA

Who was notified? _____
Who was notified? _____
Who was notified? _____

MS/MSD? F
Is splitting samples required? F
On COC? F

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

* COC missing Samplers Name; Collection dates/times; and Client name.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20B0721

Laboratory Sample ID(s):

20B0721-01 thru 20B0721-03

Sample Date(s):

02/17/2020

List RCP Methods Used:

SW-846 8260C-D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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:  **Position:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 02/21/20

Name of Laboratory: Con-Test Analytical Laboratory

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

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
027	02 00 00 / D-4 Det. 1	4/22/20	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Granular Fill	Herb Holden				2	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson

Christopher M. Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: 4/22/20

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 027 **ITEM NO.:** 1

DESCRIPTION: Granular Fill

RECOMMENDED ACTION:

- ☐ 1 - Furnish As Submitted
- ☒ 2 - Furnish As Noted
- ☐ 3 - Revise and Resubmit
- ☐ 4 - Rejected
- ☐ 5 - Acknowledgement
- ☐ See Attached Remarks
- ☐ See Individual Item Actions Below

REMARKS:

Weston & Sampson approves the substitution of 3" granular fill (aka the gravel borrow) in place of 6" granular fill called out for on sheet D-4, det. 1. The 3" granular fill has been confirmed to meet the specifications of Conn DOT Article M.02.01 / M.02.06, grading system "A".

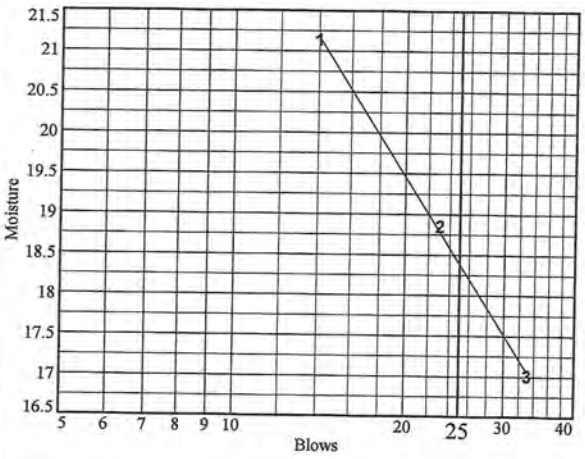
This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

LIQUID AND PLASTIC LIMIT TEST DATA

Client: Strategic Enviromental Services,Inc
Date: 12/22/2019
Project: Eversource settling basin,Berlin CT
Location: Offsite (Herb Holden)
Depth: N/A
Sample Number: 881-19
Material Description: 2 1/2" Minus reddish brown bankrun gravel and sand
%<#40: 17.8 **%<#200:** 4.9 **USCS:** SP **AASHTO:** A-1-a
Tested by: N/A
Checked by: N/A
Testing Remarks: ASTM D 4318

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	42.4	41.6	44.7			
Dry+Tare	35.0	35.0	38.2			
Tare	0	0	0			
# Blows	14	23	33			
Moisture	21.1	18.9	17.0			



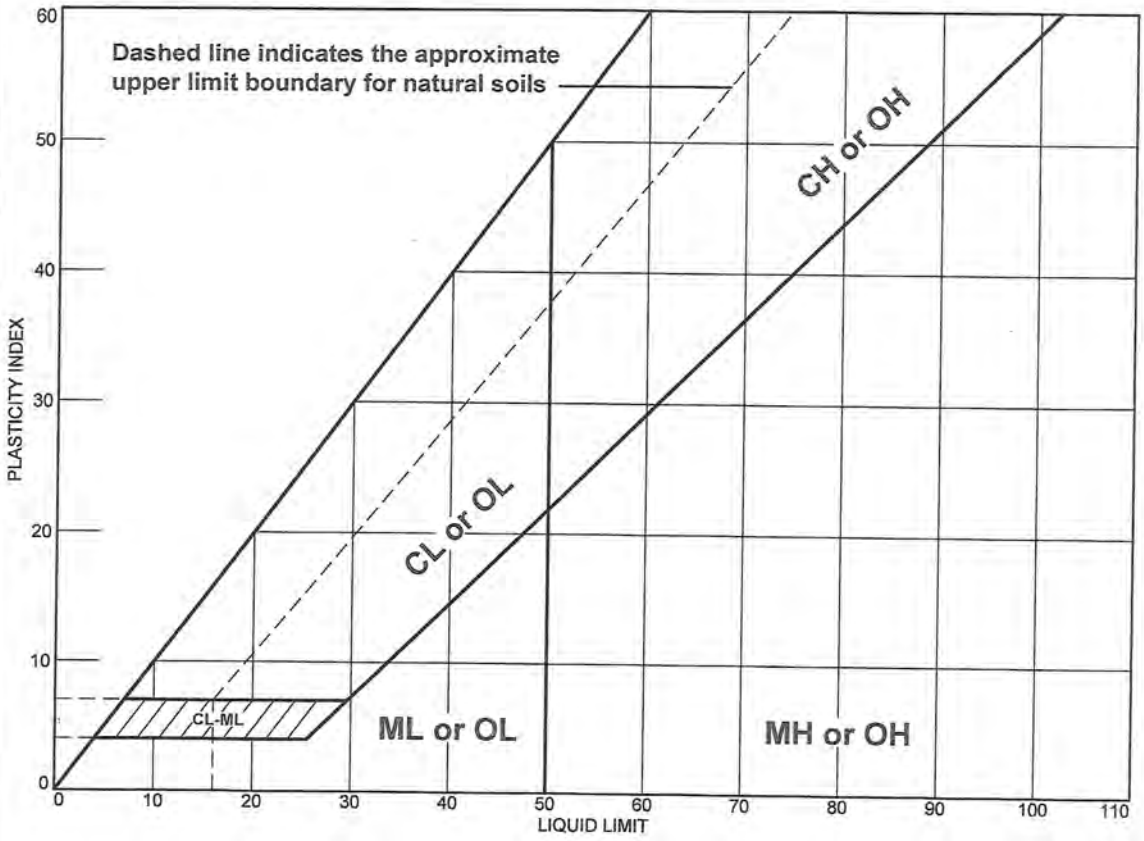
Liquid Limit= 18
Plastic Limit= NP
Plasticity Index= NP
Natural Moisture= N/A

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare					
Dry+Tare					
Tare					
Moisture					

Tri State Materials Testing Lab

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	2 1/2" Minus reddish brown bankrun gravel and sand	18	NP	NP	17.8	4.9	SP

Project No. **Client:** Strategic Enviromental Services,Inc

Project: Eversource settling basin,Berlin CT

● **Source:** Offsite (Herb Holden) **Depth:** N/A **Sample No.:** 881-19

Remarks:
● ASTM D 4318

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: N/A **Checked By:** N/A

GRAIN SIZE DISTRIBUTION TEST DATA

5/25/2019

Client: : Herb Holden Trucking — Date: 05/25/2019
Project: : In House Testing
Location: Onsite Quarry — Date: 05/25/2019
Depth: N/A — **Sample Number:** 389-19
Material Description: 3" Minus bankrun gravel with sand, trace fines
Liquid Limit: N/A — **Plastic Limit:** N/A
USCS Classification: GP — **AASHTO Classification:** N/A
Testing Remarks: ASTM C 136, C 117(Material meet the D.O.T structural fill, granular fill and sub-base spec)
Tested by: IC — **Checked by:** HC
Material specification: D.O.T. M.02.06 -A

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 3970.00
Tare Wt. = 0.00
Minus #200 from wash = 4.2%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
4143.50	0.00	0.00	3"	0.00	100.0	0.0			
			2 1/2"	508.40	87.7	12.3			
			2"	861.90	79.2	20.8			
			1 1/2"	1023.40	75.3	24.7	55.0	100.0	
			3/4"	1258.90	69.6	30.4			
			1/4"	1948.50	53.0	47.0	25.0	60.0	
			#4	2017.00	51.3	48.7			
			#10	2283.60	44.9	55.1	15.0	45.0	
			#40	3115.20	24.8	75.2	5.0	25.0	
			#100	3877.10	6.4	93.6	0.0	10.0	
			#200	3967.30	4.3	95.7	0.0	5.0	

Fractional Components

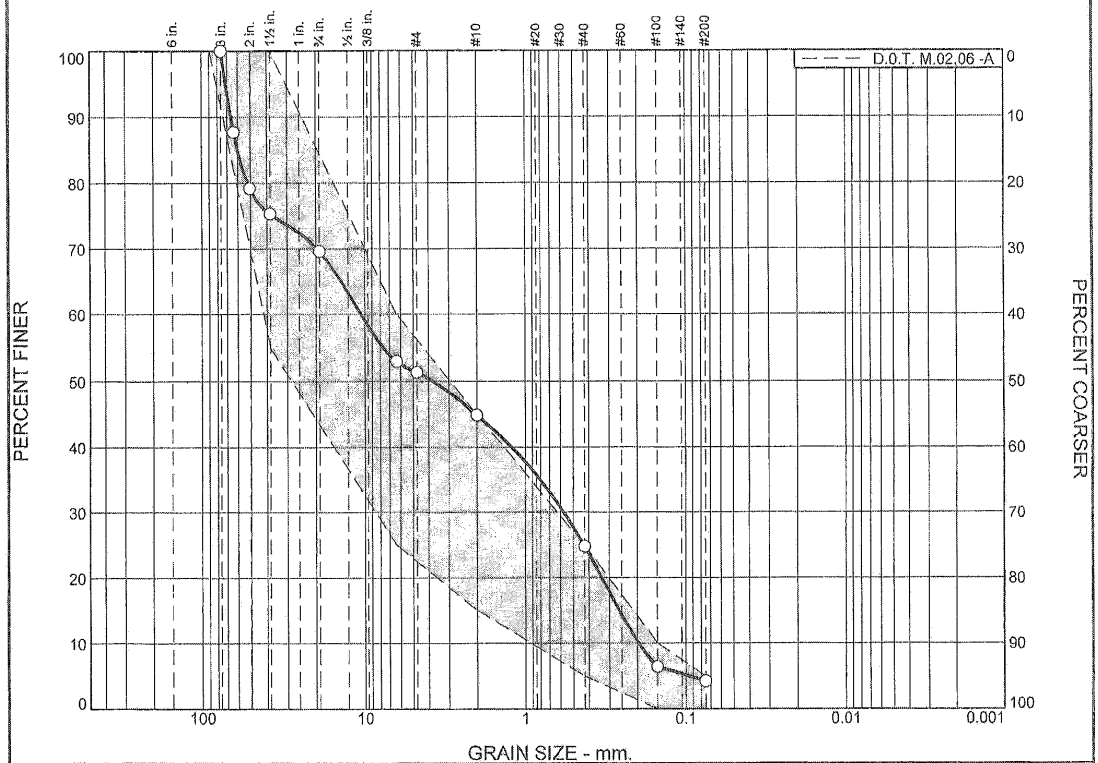
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	30.4	18.3	48.7	6.4	20.1	20.5	47.0			4.3

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0952	0.1971	0.2601	0.3333	0.5720	1.2204	3.7774	10.5468	52.4285	60.1969	65.9795	71.0990

Fineness Modulus	C_u	C_c
5.04	53.50	0.16

Tri State Materials Testing Lab

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	30.4	18.3	6.4	20.1	20.5	4.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	60.1969	10.5468	3.7774	0.5720	0.2601	0.1971	0.16	53.50

Material Description	USCS	AASHTO
○ 3" Minus bankrun gravel with sand, trace fines	GP	N/A

Project No. **Client:** : Herb Holden Trucking

Project: : In House Testing

○ **Source:** Onsite Quarry Date: 05/25/2019

Remarks:
○ ASTM C 136, C 117(Material meet the D.O.T structural fill, granular fill and sub-base spec)

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: IC **Checked By:** HC

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 27, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20A0519

Enclosed are results of analyses for samples received by the laboratory on January 13, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/27/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0519

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden Backfill BS-1	20A0519-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010D	
				SW-846 6020B	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - re-running thallium by 6020 - 2/26/2020 mmk

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8081B

Qualifications:

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD
B250059-BS1, B250059-BSD1

SW-846 8260C-D

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
20A0519-01[Herb Holden Backfill BS-1], B249988-BLK1, B249988-BS1, S044643-CCV1

SW-846 8270D-E

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

Hexachlorocyclopentadiene
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

2-Nitroaniline
S045005-CCV1

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

4-Nitrophenol
S045005-CCV1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
B250825-BLK1, B250825-BS1, B250825-BSD1, S045003-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

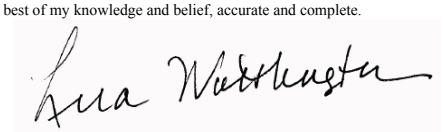
Analyte & Samples(s) Qualified:

2-Nitroaniline
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

4-Nitrophenol
20A0519-01[Herb Holden Backfill BS-1], S045005-CCV1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Toluene	0.0027	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	1/14/20	1/14/20 14:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.5	70-130		1/14/20 14:09
Toluene-d8	99.9	70-130		1/14/20 14:09
4-Bromofluorobenzene	101	70-130		1/14/20 14:09

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1	V-05	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitroaniline	ND	0.34	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
4-Nitrophenol	ND	0.67	mg/Kg dry	1	V-20	SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D-E	1/24/20	1/27/20 9:28	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	83.4	30-130			1/27/20 9:28
Phenol-d6	87.8	30-130			1/27/20 9:28
Nitrobenzene-d5	89.6	30-130			1/27/20 9:28
2-Fluorobiphenyl	115	30-130			1/27/20 9:28
2,4,6-Tribromophenol	84.2	30-130			1/27/20 9:28
p-Terphenyl-d14	98.0	30-130			1/27/20 9:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Aldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
alpha-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
beta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
delta-BHC [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
gamma-BHC (Lindane) [1]	ND	0.0019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Chlordane [1]	ND	0.019	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDD [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDE [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
4,4'-DDT [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Dieldrin [1]	ND	0.0038	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan I [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan II [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endosulfan sulfate [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin aldehyde [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Endrin ketone [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Heptachlor epoxide [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Hexachlorobenzene [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Methoxychlor [1]	ND	0.048	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG
Toxaphene [1]	ND	0.095	mg/Kg dry	1		SW-846 8081B	1/15/20	1/15/20 23:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.5	30-150		1/15/20 23:52
Decachlorobiphenyl [2]	75.4	30-150		1/15/20 23:52
Tetrachloro-m-xylene [1]	75.1	30-150		1/15/20 23:52
Tetrachloro-m-xylene [2]	67.6	30-150		1/15/20 23:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1221 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1232 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1242 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1248 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1254 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1260 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1262 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG
Aroclor-1268 [1]	ND	0.077	mg/Kg dry	4		SW-846 8082A	1/21/20	1/23/20 18:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		1/23/20 18:05
Decachlorobiphenyl [2]	95.9	30-150		1/23/20 18:05
Tetrachloro-m-xylene [1]	93.6	30-150		1/23/20 18:05
Tetrachloro-m-xylene [2]	95.8	30-150		1/23/20 18:05

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	1/15/20	1/17/20 3:16	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	68.4	50-150		1/17/20 3:16

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Arsenic	2.5	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Barium	25	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Beryllium	0.21	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Chromium	7.4	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Copper	5.7	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Lead	2.9	0.50	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	1/22/20	1/23/20 11:54	CJV
Nickel	5.6	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Silver	ND	0.33	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH
Thallium	ND	0.085	mg/Kg dry	5		SW-846 6020B	2/26/20	2/26/20 19:15	MJH
Vanadium	16	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/22/20 8:41	TBC
Zinc	14	0.67	mg/Kg dry	1		SW-846 6010D	1/21/20	1/21/20 19:38	MJH

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Project Location: Berlin, CT | Sample Description: | Work Order: 20A0519

Date Received: 1/13/2020

Field Sample #: Herb Holden Backfill BS-1 | Sampled: 1/13/2020 07:00

Sample ID: 20A0519-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.2		% Wt	1		SM 2540G	1/23/20	1/24/20 14:31	CBM

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250058	30.0	1.00	01/15/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250713	01/23/20

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250477	1.54	50.0	01/21/20

Prep Method: SW-846 3050B-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B253045	1.51	50.0	02/26/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250544	0.612	50.0	01/22/20

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250059	10.8	10.0	01/15/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250482	10.7	10.0	01/21/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B249988	4.57	10.0	01/14/20

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0519-01 [Herb Holden Backfill BS-1]	B250825	30.6	1.00	01/24/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
Blank (B249988-BLK1)				Prepared & Analyzed: 01/14/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0421*		mg/Kg wet	0.0500		84.3	70-130			
Surrogate: Toluene-d8	*0.0491*		mg/Kg wet	0.0500		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0514*		mg/Kg wet	0.0500		103	70-130			
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
Acetone	0.170	0.10	mg/Kg wet	0.200		85.1	40-160			
Acrylonitrile	0.0184	0.0060	mg/Kg wet	0.0200		91.8	70-130			
Benzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromodichloromethane	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Bromoform	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromomethane	0.0169	0.010	mg/Kg wet	0.0200		84.7	40-160			V-34
2-Butanone (MEK)	0.180	0.040	mg/Kg wet	0.200		90.2	40-160			
n-Butylbenzene	0.0163	0.0020	mg/Kg wet	0.0200		81.5	70-130			
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Carbon Disulfide	0.179	0.0060	mg/Kg wet	0.200		89.4	70-130			
Carbon Tetrachloride	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0179	0.020	mg/Kg wet	0.0200		89.3	70-130			
Chloroform	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130			
Chloromethane	0.0159	0.010	mg/Kg wet	0.0200		79.7	40-160			
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
4-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130			
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
trans-1,4-Dichloro-2-butene	0.0183	0.0040	mg/Kg wet	0.0200		91.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.0183	0.020	mg/Kg wet	0.0200		91.3	40-160			
1,1-Dichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,2-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		82.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249988 - SW-846 5035										
LCS (B249988-BS1)				Prepared & Analyzed: 01/14/20						
cis-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
trans-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
1,3-Dichloropropane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
2,2-Dichloropropane	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130			
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Hexachlorobutadiene	0.0208	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		91.1	70-130			
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.0	70-130			
Methylene Chloride	0.0185	0.020	mg/Kg wet	0.0200		92.5	70-130			
4-Methyl-2-pentanone (MIBK)	0.183	0.020	mg/Kg wet	0.200		91.6	40-160			
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.4	70-130			
n-Propylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Tetrachloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Tetrahydrofuran	0.0176	0.010	mg/Kg wet	0.0200		87.8	70-130			V-16
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,2,3-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,1,1-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0181	0.010	mg/Kg wet	0.0200		90.4	40-160			
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0185	0.010	mg/Kg wet	0.0200		92.4	70-130			
1,2,4-Trimethylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
Vinyl Chloride	0.0171	0.010	mg/Kg wet	0.0200		85.7	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		mg/Kg wet	0.0500		82.4	70-130			
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0500*		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-06, V-19
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-06
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
Blank (B250825-BLK1)				Prepared: 01/24/20 Analyzed: 01/27/20							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.62*		mg/Kg wet	6.67		84.4	30-130				
Surrogate: Nitrobenzene-d5	*2.79*		mg/Kg wet	3.33		83.6	30-130				
Surrogate: 2-Fluorobiphenyl	*3.49*		mg/Kg wet	3.33		105	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.47*		mg/Kg wet	6.67		97.1	30-130				
Surrogate: p-Terphenyl-d14	*3.29*		mg/Kg wet	3.33		98.8	30-130				
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.1	40-140				
Aniline	1.07	0.34	mg/Kg wet	1.67		64.0	40-140			V-05	†
Anthracene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140				
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.2	40-140				
Benzo(a)pyrene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140				
Benzo(b)fluoranthene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140				
Benzo(g,h,i)perylene	1.69	0.17	mg/Kg wet	1.67		101	40-140				
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140				
Bis(2-chloroethoxy)methane	1.39	0.34	mg/Kg wet	1.67		83.2	40-140				
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140				
Bis(2-chloroisopropyl)ether	1.40	0.34	mg/Kg wet	1.67		84.2	40-140				
Bis(2-Ethylhexyl)phthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.67		90.9	40-140				
Butylbenzylphthalate	1.52	0.34	mg/Kg wet	1.67		91.3	40-140				
Carbazole	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
4-Chloroaniline	0.984	0.66	mg/Kg wet	1.67		59.0	40-140				†
4-Chloro-3-methylphenol	1.49	0.66	mg/Kg wet	1.67		89.3	30-130				
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140				
2-Chlorophenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130				
4-Chlorophenylphenylether	1.43	0.34	mg/Kg wet	1.67		86.0	40-140				
Chrysene	1.46	0.17	mg/Kg wet	1.67		87.6	40-140				
Dibenz(a,h)anthracene	1.62	0.17	mg/Kg wet	1.67		96.9	40-140				
Dibenzofuran	1.47	0.34	mg/Kg wet	1.67		88.5	40-140				
Di-n-butylphthalate	1.47	0.34	mg/Kg wet	1.67		88.4	40-140				
3,3-Dichlorobenzidine	1.23	0.17	mg/Kg wet	1.67		73.9	40-140				†
2,4-Dichlorophenol	1.50	0.34	mg/Kg wet	1.67		90.3	30-130				
Diethylphthalate	1.43	0.34	mg/Kg wet	1.67		85.9	40-140				
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.4	30-130				
Dimethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.9	40-140				
4,6-Dinitro-2-methylphenol	1.80	0.34	mg/Kg wet	1.67		108	30-130			V-06, V-19	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS (B250825-BS1)				Prepared: 01/24/20 Analyzed: 01/27/20							
2,4-Dinitrophenol	2.02	0.66	mg/Kg wet	1.67		121	30-130			V-06	
2,4-Dinitrotoluene	1.67	0.34	mg/Kg wet	1.67		100	40-140				
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		99.3	40-140				
Di-n-octylphthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140				
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140				
Fluorene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140				
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.3	40-140				
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140				
Hexachlorocyclopentadiene	1.28	0.34	mg/Kg wet	1.67		76.5	30-140				
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		75.3	40-140				
Indeno(1,2,3-cd)pyrene	1.77	0.17	mg/Kg wet	1.67		106	40-140				
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.4	40-140				
2-Methylnaphthalene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140				
2-Methylphenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130				
3/4-Methylphenol	1.40	0.34	mg/Kg wet	1.67		83.8	30-130				
Naphthalene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140				
2-Nitroaniline	1.91	0.34	mg/Kg wet	1.67		115	40-140				
3-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.3	40-140				†
4-Nitroaniline	1.55	0.34	mg/Kg wet	1.67		93.0	40-140				
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.6	40-140				
2-Nitrophenol	1.62	0.34	mg/Kg wet	1.67		97.1	30-130				
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.3	10-130				
N-Nitrosodiphenylamine/Diphenylamine	1.55	0.34	mg/Kg wet	1.67		92.8	40-140				
N-Nitrosodi-n-propylamine	1.31	0.34	mg/Kg wet	1.67		78.5	40-140				
Pentachloronitrobenzene	1.64	0.34	mg/Kg wet	1.67		98.3	40-140				
Pentachlorophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130				
Phenanthrene	1.50	0.17	mg/Kg wet	1.67		90.3	40-140				
Phenol	1.31	0.34	mg/Kg wet	1.67		78.7	20-130				
Pyrene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140				
Pyridine	0.690	0.34	mg/Kg wet	1.67		41.4	10-140				†
1,2,4,5-Tetrachlorobenzene	1.41	0.34	mg/Kg wet	1.67		84.8	40-140				
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
2,4,5-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.6	30-130				
2,4,6-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.5	30-130				
Surrogate: 2-Fluorophenol	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.66*		mg/Kg wet	6.67		84.9	30-130				
Surrogate: Nitrobenzene-d5	*2.92*		mg/Kg wet	3.33		87.7	30-130				
Surrogate: 2-Fluorobiphenyl	*3.54*		mg/Kg wet	3.33		106	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.49*		mg/Kg wet	6.67		97.4	30-130				
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg wet	3.33		94.4	30-130				
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Acenaphthene	1.50	0.17	mg/Kg wet	1.67		89.7	40-140	3.35	30		
Acenaphthylene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140	3.80	30		
Aniline	1.07	0.34	mg/Kg wet	1.67		63.9	40-140	0.0312	50	V-05	† ‡
Anthracene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140	2.39	30		
Benzo(a)anthracene	1.52	0.17	mg/Kg wet	1.67		91.4	40-140	3.50	30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	1.71	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.5	40-140	1.84	30		
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140	1.86	30		
Benzo(k)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	2.13	30		
Bis(2-chloroethoxy)methane	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	1.22	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250825 - SW-846 3546											
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20							
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	0.00	30		
Bis(2-chloroisopropyl)ether	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	1.58	30		
Bis(2-Ethylhexyl)phthalate	1.50	0.34	mg/Kg wet	1.67		90.0	40-140	1.77	30		
4-Bromophenylphenylether	1.59	0.34	mg/Kg wet	1.67		95.1	40-140	4.58	30		
Butylbenzylphthalate	1.55	0.34	mg/Kg wet	1.67		93.0	40-140	1.82	30		
Carbazole	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	2.24	30		
4-Chloroaniline	0.998	0.66	mg/Kg wet	1.67		59.9	40-140	1.45	30		†
4-Chloro-3-methylphenol	1.50	0.66	mg/Kg wet	1.67		90.1	30-130	0.869	30		
2-Chloronaphthalene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	3.93	30		
2-Chlorophenol	1.42	0.34	mg/Kg wet	1.67		84.9	30-130	3.47	30		
4-Chlorophenylphenylether	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	3.81	30		
Chrysene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	3.41	30		
Dibenz(a,h)anthracene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140	2.73	30		
Dibenzofuran	1.52	0.34	mg/Kg wet	1.67		91.3	40-140	3.09	30		
Di-n-butylphthalate	1.50	0.34	mg/Kg wet	1.67		89.7	40-140	1.41	30		
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	2.96	30		† ‡
2,4-Dichlorophenol	1.55	0.34	mg/Kg wet	1.67		93.3	30-130	3.29	30		
Diethylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	1.52	30		
2,4-Dimethylphenol	1.39	0.34	mg/Kg wet	1.67		83.5	30-130	2.60	30		
Dimethylphthalate	1.45	0.34	mg/Kg wet	1.67		86.9	40-140	2.40	50		
4,6-Dinitro-2-methylphenol	1.86	0.34	mg/Kg wet	1.67		112	30-130	3.52	50	V-06, V-19	
2,4-Dinitrophenol	2.12	0.66	mg/Kg wet	1.67		127	30-130	4.75	50	V-06	
2,4-Dinitrotoluene	1.70	0.34	mg/Kg wet	1.67		102	40-140	2.00	30		
2,6-Dinitrotoluene	1.69	0.34	mg/Kg wet	1.67		101	40-140	2.17	30		
Di-n-octylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	0.206	30		
Fluoranthene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	3.35	30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	3.16	30		
Hexachlorobenzene	1.53	0.34	mg/Kg wet	1.67		92.0	40-140	4.11	30		
Hexachlorobutadiene	1.38	0.34	mg/Kg wet	1.67		82.5	40-140	3.91	30		
Hexachlorocyclopentadiene	1.34	0.34	mg/Kg wet	1.67		80.4	30-140	4.97	50		
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	1.50	50		
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.67		107	40-140	0.995	50		
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	0.116	30		
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140	3.45	30		
2-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.4	30-130	3.71	30		
3/4-Methylphenol	1.43	0.34	mg/Kg wet	1.67		85.7	30-130	2.20	30		
Naphthalene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	2.57	30		
2-Nitroaniline	1.87	0.34	mg/Kg wet	1.67		112	40-140	2.17	30		
3-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	3.11	30		†
4-Nitroaniline	1.58	0.34	mg/Kg wet	1.67		95.0	40-140	2.15	30		
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	0.239	30		
2-Nitrophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130	4.03	30		
4-Nitrophenol	1.59	0.66	mg/Kg wet	1.67		95.5	10-130	0.168	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.58	0.34	mg/Kg wet	1.67		94.6	40-140	1.94	30		
N-Nitrosodi-n-propylamine	1.33	0.34	mg/Kg wet	1.67		80.0	40-140	1.94	30		
Pentachloronitrobenzene	1.70	0.34	mg/Kg wet	1.67		102	40-140	3.65	30		
Pentachlorophenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130	4.02	50		
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140	2.28	30		
Phenol	1.35	0.34	mg/Kg wet	1.67		80.8	20-130	2.58	30		
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140	2.84	30		
Pyridine	0.713	0.34	mg/Kg wet	1.67		42.8	10-140	3.33	50		†
1,2,4,5-Tetrachlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.8	40-140	4.58	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250825 - SW-846 3546										
LCS Dup (B250825-BSD1)				Prepared: 01/24/20 Analyzed: 01/27/20						
1,2,4-Trichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	3.36	30	
2,4,5-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.0	30-130	3.66	30	
2,4,6-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.4	30-130	4.24	50	
Surrogate: 2-Fluorophenol	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Phenol-d6	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Nitrobenzene-d5	*2.90*		mg/Kg wet	3.33		87.0	30-130			
Surrogate: 2-Fluorobiphenyl	*3.65*		mg/Kg wet	3.33		110	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.81*		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	*3.25*		mg/Kg wet	3.33		97.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
Blank (B250059-BLK1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.151*		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.139*		mg/Kg wet	0.200		69.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS (B250059-BS1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
alpha-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
gamma-Chlordane	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
gamma-Chlordane [2C]	0.086	0.0050	mg/Kg wet	0.100		86.1	40-140			
Alachlor	0.087	0.020	mg/Kg wet	0.100		87.0	40-140			
Alachlor [2C]	0.091	0.020	mg/Kg wet	0.100		90.9	40-140			
Aldrin	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140			
Aldrin [2C]	0.082	0.0050	mg/Kg wet	0.100		82.5	40-140			
alpha-BHC	0.087	0.0050	mg/Kg wet	0.100		86.9	40-140			
alpha-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140			
beta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
beta-BHC [2C]	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140			
delta-BHC	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		81.2	40-140			
gamma-BHC (Lindane)	0.078	0.0020	mg/Kg wet	0.100		77.9	40-140			
gamma-BHC (Lindane) [2C]	0.078	0.0020	mg/Kg wet	0.100		78.3	40-140			
4,4'-DDD	0.096	0.0040	mg/Kg wet	0.100		96.1	40-140			V-06
4,4'-DDD [2C]	0.091	0.0040	mg/Kg wet	0.100		91.2	40-140			
4,4'-DDE	0.090	0.0040	mg/Kg wet	0.100		90.3	40-140			
4,4'-DDE [2C]	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140			
4,4'-DDT	0.093	0.0040	mg/Kg wet	0.100		92.8	40-140			
4,4'-DDT [2C]	0.085	0.0040	mg/Kg wet	0.100		84.6	40-140			
Dieldrin	0.087	0.0040	mg/Kg wet	0.100		87.4	40-140			
Dieldrin [2C]	0.084	0.0040	mg/Kg wet	0.100		84.4	40-140			
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140			
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140			
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.1	40-140			
Endosulfan II [2C]	0.087	0.0080	mg/Kg wet	0.100		86.7	40-140			
Endosulfan Sulfate	0.096	0.0080	mg/Kg wet	0.100		96.0	40-140			
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		87.5	40-140			
Endrin	0.092	0.0080	mg/Kg wet	0.100		92.0	40-140			
Endrin [2C]	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140			
Endrin Aldehyde	0.090	0.0080	mg/Kg wet	0.100		90.3	40-140			
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.6	40-140			
Endrin Ketone	0.089	0.0080	mg/Kg wet	0.100		89.4	40-140			
Endrin Ketone [2C]	0.084	0.0080	mg/Kg wet	0.100		84.4	40-140			
Heptachlor	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
Heptachlor [2C]	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140			
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140			
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
Hexachlorobenzene	0.087	0.0060	mg/Kg wet	0.100		86.9	40-140			
Hexachlorobenzene [2C]	0.081	0.0060	mg/Kg wet	0.100		81.1	40-140			
Methoxychlor	0.092	0.050	mg/Kg wet	0.100		91.8	40-140			
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.100		88.6	40-140			
Surrogate: Decachlorobiphenyl	*0.166*		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		72.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250059 - SW-846 3546										
LCS Dup (B250059-BSD1)				Prepared & Analyzed: 01/15/20						
alpha-Chlordane	0.077	0.0050	mg/Kg wet	0.100		77.1	40-140	8.06	30	
alpha-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	7.80	30	
gamma-Chlordane	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.04	30	
gamma-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		79.4	40-140	8.09	30	
Alachlor	0.080	0.020	mg/Kg wet	0.100		80.3	40-140	8.03	30	
Alachlor [2C]	0.081	0.020	mg/Kg wet	0.100		80.7	40-140	11.9	30	
Aldrin	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.36	30	
Aldrin [2C]	0.076	0.0050	mg/Kg wet	0.100		76.0	40-140	8.14	30	
alpha-BHC	0.084	0.0050	mg/Kg wet	0.100		84.5	40-140	2.90	30	
alpha-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		73.3	40-140	4.16	30	
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140	5.26	30	
beta-BHC [2C]	0.079	0.0050	mg/Kg wet	0.100		79.0	40-140	5.34	30	
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140	3.08	30	
delta-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	4.92	30	
gamma-BHC (Lindane)	0.075	0.0020	mg/Kg wet	0.100		74.7	40-140	4.15	30	
gamma-BHC (Lindane) [2C]	0.074	0.0020	mg/Kg wet	0.100		74.4	40-140	5.11	30	
4,4'-DDD	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140	6.93	30	V-06
4,4'-DDD [2C]	0.084	0.0040	mg/Kg wet	0.100		83.7	40-140	8.58	30	
4,4'-DDE	0.083	0.0040	mg/Kg wet	0.100		83.4	40-140	7.90	30	
4,4'-DDE [2C]	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	8.81	30	
4,4'-DDT	0.087	0.0040	mg/Kg wet	0.100		86.5	40-140	6.99	30	
4,4'-DDT [2C]	0.078	0.0040	mg/Kg wet	0.100		78.1	40-140	7.98	30	
Dieldrin	0.081	0.0040	mg/Kg wet	0.100		81.2	40-140	7.43	30	
Dieldrin [2C]	0.077	0.0040	mg/Kg wet	0.100		76.8	40-140	9.40	30	
Endosulfan I	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	7.73	30	
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140	7.90	30	
Endosulfan II	0.084	0.0080	mg/Kg wet	0.100		83.7	40-140	7.44	30	
Endosulfan II [2C]	0.080	0.0080	mg/Kg wet	0.100		79.9	40-140	8.19	30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		88.7	40-140	7.94	30	
Endosulfan Sulfate [2C]	0.080	0.0080	mg/Kg wet	0.100		79.8	40-140	9.14	30	
Endrin	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140	7.10	30	
Endrin [2C]	0.081	0.0080	mg/Kg wet	0.100		81.2	40-140	8.30	30	
Endrin Aldehyde	0.083	0.0080	mg/Kg wet	0.100		82.7	40-140	8.76	30	
Endrin Aldehyde [2C]	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140	10.6	30	
Endrin Ketone	0.083	0.0080	mg/Kg wet	0.100		83.1	40-140	7.28	30	
Endrin Ketone [2C]	0.078	0.0080	mg/Kg wet	0.100		77.9	40-140	8.08	30	
Heptachlor	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	6.65	30	
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		74.4	40-140	6.67	30	
Heptachlor Epoxide	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140	7.60	30	
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		74.9	40-140	7.89	30	
Hexachlorobenzene	0.080	0.0060	mg/Kg wet	0.100		80.4	40-140	7.72	30	
Hexachlorobenzene [2C]	0.074	0.0060	mg/Kg wet	0.100		74.3	40-140	8.77	30	
Methoxychlor	0.084	0.050	mg/Kg wet	0.100		84.5	40-140	8.27	30	
Methoxychlor [2C]	0.081	0.050	mg/Kg wet	0.100		80.9	40-140	9.15	30	
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg wet	0.200		70.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.151*		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.132*		mg/Kg wet	0.200		66.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250482 - SW-846 3540C										
Blank (B250482-BLK1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.1	30-150			
LCS (B250482-BS1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.7	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.0	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.7	40-140			
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg wet	0.200		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		94.8	30-150			
LCS Dup (B250482-BSD1)				Prepared: 01/21/20 Analyzed: 01/23/20						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	2.05	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.7	40-140	1.47	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	2.06	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	0.313	30	
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.189*		mg/Kg wet	0.200		94.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250058 - SW-846 3546										
Blank (B250058-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*1.71*		mg/Kg wet	3.33		51.3	50-150			
LCS (B250058-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	24.9	10	mg/Kg wet	33.3		74.7	60-120			
Surrogate: 2-Fluorobiphenyl	*1.90*		mg/Kg wet	3.33		56.9	50-150			
LCS Dup (B250058-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
CT ETPH	25.7	10	mg/Kg wet	33.3		77.1	60-120	3.12	30	
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/Kg wet	3.33		58.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Blank (B250477-BLK1)				Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B250477-BS1)				Prepared: 01/21/20 Analyzed: 01/22/20						
Antimony	245	4.9	mg/Kg wet	147		166	4.2-196.6			
Arsenic	148	4.9	mg/Kg wet	143		103	83.2-117.5			
Barium	405	4.9	mg/Kg wet	415		97.5	82.7-117.6			
Beryllium	178	0.49	mg/Kg wet	179		99.4	83.2-117.3			
Cadmium	55.2	0.49	mg/Kg wet	56.2		98.3	82.9-117.3			
Chromium	97.8	0.98	mg/Kg wet	101		96.8	82.4-116.8			
Copper	63.3	0.98	mg/Kg wet	63.1		100	84.2-115.8			
Lead	133	1.5	mg/Kg wet	125		106	82.4-116.8			
Nickel	110	0.98	mg/Kg wet	108		102	82.9-117.6			
Selenium	78.1	9.8	mg/Kg wet	77.9		100	79.3-120.7			
Silver	34.1	0.98	mg/Kg wet	34.3		99.4	81-119.2			
Thallium	115	4.9	mg/Kg wet	113		101	80.8-118.6			
Vanadium	80.6	2.0	mg/Kg wet	83.7		96.3	79.8-120.7			
Zinc	242	2.0	mg/Kg wet	240		101	80.8-118.8			
LCS Dup (B250477-BSD1)				Prepared & Analyzed: 01/21/20						
Antimony	218	4.9	mg/Kg wet	147		149	4.2-196.6	11.4	30	
Arsenic	132	4.9	mg/Kg wet	143		92.5	83.2-117.5	11.0	30	
Barium	378	4.9	mg/Kg wet	415		91.2	82.7-117.6	6.75	20	
Beryllium	175	0.49	mg/Kg wet	179		97.8	83.2-117.3	1.58	30	
Cadmium	49.7	0.49	mg/Kg wet	56.2		88.4	82.9-117.3	10.6	20	
Chromium	93.2	0.98	mg/Kg wet	101		92.3	82.4-116.8	4.74	30	
Copper	60.8	0.98	mg/Kg wet	63.1		96.4	84.2-115.8	3.96	30	
Lead	113	1.5	mg/Kg wet	125		90.8	82.4-116.8	15.8	30	
Nickel	103	0.98	mg/Kg wet	108		95.0	82.9-117.6	7.04	30	
Selenium	76.5	9.8	mg/Kg wet	77.9		98.3	79.3-120.7	2.06	30	
Silver	35.1	0.98	mg/Kg wet	34.3		102	81-119.2	3.07	30	
Thallium	105	4.9	mg/Kg wet	113		93.0	80.8-118.6	8.62	30	
Vanadium	83.2	2.0	mg/Kg wet	83.7		99.4	79.8-120.7	3.14	30	
Zinc	227	2.0	mg/Kg wet	240		94.6	80.8-118.8	6.41	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250477 - SW-846 3051										
Duplicate (B250477-DUP1)	**Source: 20A0519-01**			Prepared & Analyzed: 01/21/20						
Antimony	ND	1.7	mg/Kg dry		ND			NC	35	
Arsenic	2.19	1.7	mg/Kg dry		2.52			14.3	35	
Barium	22.7	1.7	mg/Kg dry		25.2			10.3	35	
Beryllium	0.175	0.17	mg/Kg dry		0.213			20.0	35	
Cadmium	ND	0.17	mg/Kg dry		ND			NC	35	
Chromium	6.58	0.34	mg/Kg dry		7.41			12.0	35	
Copper	5.23	0.34	mg/Kg dry		5.75			9.38	35	
Lead	2.34	0.51	mg/Kg dry		2.86			20.0	35	
Nickel	5.40	0.34	mg/Kg dry		5.63			4.08	35	
Selenium	ND	3.4	mg/Kg dry		ND			NC	35	
Silver	ND	0.34	mg/Kg dry		ND			NC	35	
Thallium	ND	1.7	mg/Kg dry		ND			NC	35	
Vanadium	12.2	0.68	mg/Kg dry		16.1			27.8	35	
Zinc	13.1	0.68	mg/Kg dry		13.8			4.98	35	
Matrix Spike (B250477-MS1)	**Source: 20A0519-01**			Prepared & Analyzed: 01/21/20						
Antimony	15.1	1.7	mg/Kg dry	17.1	ND	88.3	75-125			
Arsenic	17.7	1.7	mg/Kg dry	17.1	2.52	88.7	75-125			
Barium	40.2	1.7	mg/Kg dry	17.1	25.2	87.6	75-125			
Beryllium	17.7	0.17	mg/Kg dry	17.1	0.213	102	75-125			
Cadmium	15.7	0.17	mg/Kg dry	17.1	ND	91.9	75-125			
Chromium	23.4	0.34	mg/Kg dry	17.1	7.41	93.6	75-125			
Copper	39.5	0.34	mg/Kg dry	34.2	5.75	98.8	75-125			
Lead	18.6	0.51	mg/Kg dry	17.1	2.86	91.9	75-125			
Nickel	22.4	0.34	mg/Kg dry	17.1	5.63	98.4	75-125			
Selenium	16.8	3.4	mg/Kg dry	17.1	ND	98.1	75-125			
Silver	17.6	0.34	mg/Kg dry	17.1	ND	103	75-125			
Thallium	17.3	1.7	mg/Kg dry	17.1	ND	101	75-125			
Vanadium	31.1	0.68	mg/Kg dry	17.1	16.1	88.0	75-125			
Zinc	46.5	0.68	mg/Kg dry	34.2	13.8	95.7	75-125			
Reference (B250477-SRM1) MRL Check				Prepared & Analyzed: 01/21/20						
Lead	0.440	0.51	mg/Kg wet	0.506		86.8	80-120			
Batch B250544 - SW-846 7471										
Blank (B250544-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B250544-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.13	0.39	mg/Kg wet	7.61		93.7	72.7-127.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250544 - SW-846 7471										
LCS Dup (B250544-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	7.26	0.38	mg/Kg wet	7.61		95.5	72.7-127.3	1.86	20	
Duplicate (B250544-DUP1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	ND	0.025	mg/Kg dry		ND			NC	35	
Matrix Spike (B250544-MS1)	**Source: 20A0519-01**			Prepared: 01/22/20 Analyzed: 01/23/20						
Mercury	0.342	0.025	mg/Kg dry	0.331	ND	103	75-125			
Batch B253045 - SW-846 3050B										
Blank (B253045-BLK1)				Prepared & Analyzed: 02/26/20						
Thallium	ND	0.083	mg/Kg wet							
LCS (B253045-BS1)				Prepared & Analyzed: 02/26/20						
Thallium	117	0.99	mg/Kg wet	113		103	80.8-118.6			
LCS Dup (B253045-BSD1)				Prepared & Analyzed: 02/26/20						
Thallium	117	1.0	mg/Kg wet	113		103	80.8-118.6	0.263	30	
Duplicate (B253045-DUP1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	ND	0.085	mg/Kg dry		ND			NC	35	
Matrix Spike (B253045-MS1)	**Source: 20A0519-01**			Prepared & Analyzed: 02/26/20						
Thallium	17.3	0.34	mg/Kg dry	17.0	ND	102	75-125			

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BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM1	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.63
Endrin [1]	1.64

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.41
Endrin [2]	1.32

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM3	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.02
Endrin [1]	2.10

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.87
Endrin [2]	2.14

BREAKDOWN REPORT

Lab Sample ID:	S044630-PEM4	Analyzed:	01/15/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.97
Endrin [1]	2.64

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BREAKDOWN REPORT

Lab Sample ID:	**S044630-PEM4**	**Analyzed:**	**01/15/2020**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	3.73
Endrin [2]	2.59

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.172	7.143	7.203	0.096	
	2	7.198	7.169	7.229	0.091	5.4
4,4'-DDE	1	6.735	6.705	6.765	0.090	
	2	6.771	6.741	6.801	0.090	0.0
4,4'-DDT	1	7.384	7.355	7.415	0.093	
	2	7.436	7.406	7.466	0.085	9.0
Alachlor	1	6.176	6.145	6.205	0.087	
	2	5.962	5.932	5.992	0.091	4.5
Aldrin	1	6.080	6.051	6.111	0.082	
	2	6.022	5.992	6.052	0.082	0.0
alpha-BHC	1	5.382	5.352	5.412	0.087	
	2	5.336	5.305	5.365	0.076	13.5
alpha-Chlordane	1	6.677	6.647	6.707	0.084	
	2	6.641	6.611	6.671	0.085	1.2
beta-BHC	1	5.630	5.601	5.661	0.084	
	2	5.597	5.567	5.627	0.083	1.2
delta-BHC	1	5.743	5.714	5.774	0.087	
	2	5.778	5.747	5.807	0.081	7.1
Dieldrin	1	6.946	6.917	6.977	0.087	
	2	6.875	6.845	6.905	0.084	3.5
Endosulfan I	1	6.772	6.743	6.803	0.081	
	2	6.678	6.648	6.708	0.082	1.2
Endosulfan II	1	7.283	7.253	7.313	0.090	
	2	7.257	7.227	7.287	0.087	3.4
Endosulfan Sulfate	1	7.937	7.906	7.966	0.096	
	2	7.731	7.702	7.762	0.087	9.8
Endrin	1	7.116	7.086	7.146	0.092	
	2	7.096	7.067	7.127	0.088	4.4
Endrin Aldehyde	1	7.601	7.572	7.632	0.090	
	2	7.515	7.485	7.545	0.086	4.6
Endrin Ketone	1	8.132	8.103	8.163	0.089	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B250059-BS1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.121	8.092	8.152	0.084	5.8
gamma-BHC (Lindane)	1	5.576	5.547	5.607	0.078	
	2	5.545	5.515	5.575	0.078	0.0
gamma-Chlordane	1	6.582	6.552	6.612	0.081	
	2	6.538	6.509	6.569	0.086	6.0
Heptachlor	1	5.881	5.852	5.912	0.083	
	2	5.816	5.786	5.846	0.080	3.7
Heptachlor Epoxide	1	6.493	6.464	6.524	0.082	
	2	6.406	6.376	6.436	0.081	1.2
Hexachlorobenzene	1	5.278	5.249	5.309	0.087	
	2	5.253	5.223	5.283	0.081	7.1
Methoxychlor	1	7.769	7.738	7.798	0.092	
	2	7.979	7.950	8.010	0.089	3.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.173	7.143	7.203	0.090	
	2	7.198	7.169	7.229	0.084	6.9
4,4'-DDE	1	6.735	6.705	6.765	0.083	
	2	6.771	6.741	6.801	0.082	1.2
4,4'-DDT	1	7.384	7.355	7.415	0.087	
	2	7.436	7.406	7.466	0.078	10.9
Alachlor	1	6.176	6.145	6.205	0.080	
	2	5.962	5.932	5.992	0.081	1.2
Aldrin	1	6.081	6.051	6.111	0.075	
	2	6.022	5.992	6.052	0.076	1.3
alpha-BHC	1	5.382	5.352	5.412	0.084	
	2	5.335	5.305	5.365	0.073	15.2
alpha-Chlordane	1	6.676	6.647	6.707	0.077	
	2	6.641	6.611	6.671	0.079	2.6
beta-BHC	1	5.631	5.601	5.661	0.079	
	2	5.597	5.567	5.627	0.079	0.0
delta-BHC	1	5.744	5.714	5.774	0.084	
	2	5.778	5.747	5.807	0.077	8.7
Dieldrin	1	6.946	6.917	6.977	0.081	
	2	6.875	6.845	6.905	0.077	5.1
Endosulfan I	1	6.773	6.743	6.803	0.075	
	2	6.678	6.648	6.708	0.076	1.3
Endosulfan II	1	7.283	7.253	7.313	0.084	
	2	7.256	7.227	7.287	0.080	4.9
Endosulfan Sulfate	1	7.936	7.906	7.966	0.089	
	2	7.731	7.702	7.762	0.080	10.7
Endrin	1	7.116	7.086	7.146	0.086	
	2	7.096	7.067	7.127	0.081	6.0
Endrin Aldehyde	1	7.601	7.572	7.632	0.083	
	2	7.515	7.485	7.545	0.077	7.5
Endrin Ketone	1	8.132	8.103	8.163	0.083	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B250059-BSD1 Date(s) Analyzed: 01/15/2020 01/15/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.122	8.092	8.152	0.078	6.2
gamma-BHC (Lindane)	1	5.577	5.547	5.607	0.075	
	2	5.545	5.515	5.575	0.074	1.3
gamma-Chlordane	1	6.582	6.552	6.612	0.075	
	2	6.538	6.509	6.569	0.079	5.2
Heptachlor	1	5.881	5.852	5.912	0.077	
	2	5.816	5.786	5.846	0.074	4.0
Heptachlor Epoxide	1	6.494	6.464	6.524	0.076	
	2	6.406	6.376	6.436	0.075	1.3
Hexachlorobenzene	1	5.279	5.249	5.309	0.080	
	2	5.253	5.223	5.283	0.074	7.8
Methoxychlor	1	7.768	7.738	7.798	0.084	
	2	7.980	7.950	8.010	0.081	4.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250482-BS1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250482-BSD1 Date(s) Analyzed: 01/23/2020 01/23/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020B in Soil	
Thallium	VA,NY,NH,NC,ME
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270D-E in Water	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test ANALYTICAL LABORATORY

HAF

Phone: 413-525-2332
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Email: info@contestlabs.com

http://www.contestlabs.com

2040519

Doc # 381 Rev 2_06262019

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

	Strategic Environmental Services, Inc.
Address:	362 Putnam Hill Rd; Sutton, MA 01590
Phone:	508-757-7782
	Eversource Berlin
Project Location:	Berlin CT
Project Number:	
Project Manager:	Paul Saccente
Con-Test Quote Name/Number:	
Invoice Recipient:	accountsreceivable@strategic-es.com
Sampled By:	

7-Day ☐ 10-Day ☑ Due Date:
PFAS 10-Day (std) ☐
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: te@strategic-es.com
Fax To #:

○ Field Filtered
○ Lab to Filter
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	CT DEEP ETPH	VOC 8261	SVOC 8270	CT RSR 8 TCLP 1311 Metals	Pesticides 8081	PCB 8082 Soxhlet
1	Herb Holden Backfill BS-1	1/13/20 7am		Comp	S	L						x	x	x	x	x	x

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 1/13/20 12[illegible]	Client Comments: 1) Run TCLP if exceeds 20X Rule 2) See Section 202 Chemical Properties of Soil Materials on attachment for more detail
Received by: (signature)	Date/Time: 1/13/20 123	
Relinquished by: (signature)	Date/Time: 1/13/20 1[illegible]	
Received by: (signature)	Date/Time: 1/13/20 1640	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Special Requirements

☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
GA Mobility; Residential DEC
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:
Frozen 1/13/20 16:40 DI

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

GCE 65215

Paul Saccente

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:52 AM
To: jake@ondrickmr.com
Cc: Paul Saccente
Subject: RE: SES Loam Quote

Se Also:

Non-Polluted Soil:
Non-Polluted Soil shall be granular, well graded friable soil; free of sediment, rubbish, debris, wood, glass, concrete, metal, bricks, ice, snow, tree stumps, roots, clay, organic matter and any non-soil deleterious material; with 25 percent or less passing the No. 200 sieve; no stone greater than two-third (2/3) loose lift thickness, or three (3) inches, whichever is smaller. Soil material acceptable for use shall be classified as GM, GC, SM or SC according to the Unified Soil Classification System and shall have a plasticity index of less than 10.

2.02 CHEMICAL PROPERTIES OF SOIL MATERIALS
A. All soil materials must meet the following specifications for chemical concentrations to be classified as Non-Polluted Soil:
1. Soil defined as unconsolidated geologic material overlying bedrock, but not including sediment, and **not affected by a release of a substance**. A Release is defined as any discharge, spillage, uncontrolled loss, seepage, filtration, leakage, injection, escape, dumping, pumping, pouring, emitting, emptying, or disposal of a substance. A Substance is defined as an element, compound or material, which when added to air, water or soil or sediment may alter the physical, chemical, biological or characteristic of such air, water, soil or sediment. Sediment is defined as unconsolidated material occurring in a stream channel, estuarine waters, or marine waters. (Reference Connecticut Regulation of State Agencies 22a-133k-1(a) – Definitions)
2. No detectable concentrations of petroleum hydrocarbons as determined by CT DEEP ETPH Method with laboratory reporting limits less than the lower of the Analytical Detection Limit (ADL), the Residential Direct Exposure Criteria (RDEC) or the GA PMC;
3. No detectable concentrations of VOCs by EPA Method 8261 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
BERLIN SETTLING BASIN REMEDIATION PROJECT
BERLIN, CONNECTICUT
06/24/2019 02 00 00-7
4. No detectable concentrations of SVOCs by EPA Method 8270 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;
5. Concentrations of RSR 15 metals by EPA Methods 6010 and 7471 less than the lower of the High Range Background Concentration listed in the Background Metals Concentrations table below with reporting limits less than the lower of the High Range Background Concentration and the GAPMC by SPLP Method for each metal;
6. No detectable concentrations of pesticides by EPA Method 8081 with laboratory reporting limits less than the lower of the RDEC or the GAPMC for each analyte;

1

GCE65215

and
7. No detectable concentrations of PCBs by EPA Method 8082 with laboratory reporting limits less than the lower of the ADL, the RDEC, or the GAPMC by SPLP Method.
8. The RDEC is the Residential Criteria provided in Appendix A and the GA, GAA Pollutant Mobility Criteria (GAPMC) provided in Appendix B of the Regulations of Connecticut State Agencies, Section 22a-133k-1 through -3, inclusive.
9. The Contractor shall analyze soil for each analyte for which an RDEC and GAPMC is provided.

Background Metals Concentrations

Metal	**High Range Background Concentration (mg/kg)**
Antimony	ND
Arsenic	5.4
Barium	800
Beryllium	3.5
Cadmium	0.3
Chromium	8.5
Copper	93
Lead	32
Mercury	0.08
Nickel	40
Selenium	49
Silver	0.83
Thallium	1
Vanadium	157
Zinc	130

ND – Not detected above analytical detection limits.

Ryan Gadoury
Strategic Environmental Services, Inc.
362 Putnam Hill Road
Sutton, MA 01590
Office: 508.757.7782 x 119
Cell: (508)-612-2339
Fax.: 508.363.2346

STRATEGIC ENVIRONMENTAL SERVICES

From: Ryan Gadoury
Sent: Tuesday, November 19, 2019 11:46 AM
To: jake@ondrickmr.com
Cc: Paul Saccente <psaccente@strategic-es.com>
Subject: SES Loam Quote

Thanks again Jake,

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Stantec

Received By MP Date 1/13/20 Time 16:40

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	1
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	2	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 1/13/20 16:40 DI	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D011620.SEC\D0116105.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0116105.D
Data File Path C:\MSDCHEM\4\DATA\D011620.SEC\
Operator RMW
Date Acquired 1/17/1920 2:56
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.65	8520422	9562705	11
C-10	2.29	8787893	9562705	8
C-12	3.21	9099347	9562705	5
C-14	3.92	9391983	9562705	2
C-16	4.53	9561880	9562705	0
C-18	5.07	9707491	9562705	-2
C-20	5.67	9814600	9562705	-3
C-22	6.41	9906304	9562705	-4
C-24	7.25	9971589	9562705	-4
C-26	8.05	9988553	9562705	-4
C-28	8.79	10024972	9562705	-5
C-30	9.47	10056411	9562705	-5
C-32	10.10	9765395	9562705	-2
C-34	10.69	9602263	9562705	0
C-36	11.26	9241478	9562705	3

Samples

20A0519-01
20A0580-01
20A0580-02

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20A0519

Laboratory Sample ID(s):

20A0519-01

Sample Date(s):

01/13/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 6010D, SW-846 7471B, SW-846 8081B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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: Lisa Worthington **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **01/27/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 21, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20B0721

Enclosed are results of analyses for samples received by the laboratory on February 17, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 2/21/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20B0721

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Herb Holden B5-2	20B0721-01	Soil		SW-846 8260C-D	
Herb Holden B5-3	20B0721-02	Soil		SW-846 8260C-D	
Herb Holden B5-4	20B0721-03	Soil		SW-846 8260C-D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

All results are reported as wet weight. No volume for % solid analysis was provided by the client.

SW-846 8260C-D

Qualifications:

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12

B252449-BS1, S045711-CCV1

V-34

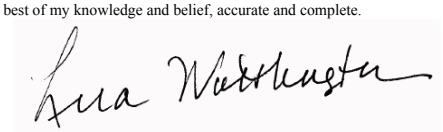
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

20B0721-01[Herb Holden B5-2], 20B0721-02[Herb Holden B5-3], 20B0721-03[Herb Holden B5-4], B252449-BLK1, B252449-BS1, S045711-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-2 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.7	70-130		2/18/20 6:31
Toluene-d8	96.8	70-130		2/18/20 6:31
4-Bromofluorobenzene	102	70-130		2/18/20 6:31

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Acrylonitrile	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Bromomethane	ND	0.0077	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Disulfide	ND	0.0046	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloroform	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Chloromethane	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-3 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Naphthalene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
Vinyl Chloride	ND	0.0077	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
m+p Xylene	ND	0.0031	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 6:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	82.0	70-130			2/18/20 6:58
Toluene-d8	96.6	70-130			2/18/20 6:58
4-Bromofluorobenzene	103	70-130			2/18/20 6:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Acrylonitrile	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Benzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromodichloromethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromoform	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Bromomethane	ND	0.0073	mg/Kg wet	1	V-34	SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Disulfide	ND	0.0044	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroethane	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloroform	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Chloromethane	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dibromomethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Ethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 20B0721

Date Received: 2/17/2020

Field Sample #: Herb Holden B5-4 | Sampled: 2/17/2020 00:00

Sample ID: 20B0721-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Methylene Chloride	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Naphthalene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
n-Propylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Styrene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Toluene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichloroethylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
Vinyl Chloride	ND	0.0073	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
m+p Xylene	ND	0.0029	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF
o-Xylene	ND	0.0015	mg/Kg wet	1		SW-846 8260C-D	2/18/20	2/18/20 7:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	82.5	70-130		2/18/20	7:25
Toluene-d8	97.5	70-130		2/18/20	7:25
4-Bromofluorobenzene	103	70-130		2/18/20	7:25

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20B0721-01 [Herb Holden B5-2]	B252449	6.53	10.0	02/18/20
20B0721-02 [Herb Holden B5-3]	B252449	6.53	10.0	02/18/20
20B0721-03 [Herb Holden B5-4]	B252449	6.83	10.0	02/18/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
Blank (B252449-BLK1)				Prepared & Analyzed: 02/18/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0391*		mg/Kg wet	0.0500		78.3	70-130			
Surrogate: Toluene-d8	*0.0481*		mg/Kg wet	0.0500		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
Acetone	0.200	0.10	mg/Kg wet	0.200		100	40-160			
Acrylonitrile	0.0188	0.0060	mg/Kg wet	0.0200		94.0	70-130			
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Bromoform	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
Bromomethane	0.0220	0.010	mg/Kg wet	0.0200		110	40-160			V-34
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.4	40-160			
n-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
sec-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
tert-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Carbon Disulfide	0.209	0.0060	mg/Kg wet	0.200		104	70-130			
Carbon Tetrachloride	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Chlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.0200		104	40-160			
Chloroethane	0.0233	0.020	mg/Kg wet	0.0200		116	70-130			
Chloroform	0.0168	0.0040	mg/Kg wet	0.0200		84.0	70-130			
Chloromethane	0.0201	0.010	mg/Kg wet	0.0200		101	40-160			
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
trans-1,4-Dichloro-2-butene	0.0178	0.0040	mg/Kg wet	0.0200		89.2	70-130			
Dichlorodifluoromethane (Freon 12)	0.0262	0.020	mg/Kg wet	0.0200		131	40-160			V-20
1,1-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,2-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
1,1-Dichloroethylene	0.0188	0.0040	mg/Kg wet	0.0200		93.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252449 - SW-846 5035										
LCS (B252449-BS1)				Prepared & Analyzed: 02/18/20						
cis-1,2-Dichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
trans-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130			
2,2-Dichloropropane	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130			
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130			
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130			
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
Hexachlorobutadiene	0.0209	0.0020	mg/Kg wet	0.0200		104	40-160			
2-Hexanone (MBK)	0.171	0.020	mg/Kg wet	0.200		85.3	70-130			
Isopropylbenzene (Cumene)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0183	0.0040	mg/Kg wet	0.0200		91.5	70-130			
Methylene Chloride	0.0198	0.020	mg/Kg wet	0.0200		98.9	70-130			
4-Methyl-2-pentanone (MIBK)	0.169	0.020	mg/Kg wet	0.200		84.4	40-160			
Naphthalene	0.0157	0.0040	mg/Kg wet	0.0200		78.7	70-130			
n-Propylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.3	70-130			
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,1-Trichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130			
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0218	0.010	mg/Kg wet	0.0200		109	40-160			
1,2,3-Trichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0217	0.010	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trimethylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Vinyl Chloride	0.0221	0.010	mg/Kg wet	0.0200		110	70-130			
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.6	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0384*		mg/Kg wet	0.0500		76.9	70-130			
Surrogate: Toluene-d8	*0.0484*		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0513*		mg/Kg wet	0.0500		103	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

KAF 20B0721

(3)

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page _____ of _____

Company Name:
Address: 362 Putnam Hill Rd; Sutton MA 01590
Phone: (508) 757-7782
Project Name: Eversource Berlin
Project Location: Berlin, CT
Project Number:
Project Manager: Paul Sciente
Con-Test Quote Name/Number:
Invoice Recipient: accountsreceivable@strategic-es.com
Sampled By:

Requested Turnaround Time
7-Day ✓ 10-Day
PFAS 10-Day (std) Due Date:

Rush Approval Required
1-Day 3-Day
2-Day 4-Day

Dissolved Metals Samples
Field Filtered
Lab to Filter

Orthophosphate Samples
Field Filtered
Lab to Filter

Data Delivery
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To:
Fax To #:

ANALYSIS REQUESTED

VOC 8260

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
1	HerbHolden B5-2			Comp	S	L	✓				
2	HerbHolden B5-3			Comp	S	L	✓				
3	HerbHolden B5-4			Comp	S	L	✓				

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS 9
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

	Date/Time
Relinquished by: (signature)	Date/Time: 11:30 2/17/2020 pm
Received by: (signature) Tom Mau 2/17/2020	Date/Time: 11:30
Relinquished by: (signature) Tom Mau 2/17/2020	Date/Time: 15:45
Received by: (signature) 2.6 2/17	Date/Time: 1545
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
GW
Other

Special Requirements
MA MCP Required
MCP Certification Form Required
✓ CT RCP Required
RCP Certification Form Required
MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government Municipality MWRA WRTA
Federal 21 J School
City Brownfield MBTA

Other
Chromatogram
AIHA-LAP,LLC

PCB ONLY
Soxhlet
Non Soxhlet

Lab Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Strategic Environmental Services

Received By SA Date 2/17 Time 1545

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 2.6
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name F
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F
Are there Rushes? F
Are there Short Holds? F
Is there enough Volume? T
Is there Headspace where applicable? F
Proper Media/Containers Used? T
Were trip blanks received? F
Do all samples have the proper pH? Acid NA Base NA

Who was notified? _____
Who was notified? _____
Who was notified? _____
MS/MSD? F
Is splitting samples required? F
On COC? F

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

* COC missing Samplers Name; Collection dates/times; and Client name.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20B0721

Laboratory Sample ID(s):

20B0721-01 thru 20B0721-03

Sample Date(s):

02/17/2020

List RCP Methods Used:

SW-846 8260C-D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

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.

Lisa A. Worthington

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: Lisa Worthington **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **02/21/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
No action will be taken on any item unless accompanied by this form.
TRANSMITTAL NOS. to be consecutive (1, 2, 3, etc.).
Each resubmittal of same item shall use same number with suffix letter (A, B, etc.).
SPEC. SECT. NO: Only one spec. section no. to each transmittal.
DESCRIPTION: Complete identification of document or group of documents.
SOURCE: Originator of document(s) being submitted.

DRAWING NO: Identification of document(s).
CONTRACT DRAWING REFERENCE: Contract drawing number(s) showing details of document(s).
SPECIAL INSTRUCTIONS: Special cases and emergencies, changes in distribution and special handling requests, etc. should be entered here.
SIGNATURE OF CONTRACTOR: Signature of individual who reviews and approves material prior to submittal to engineer.

THIS SECTION TO BE COMPLETED BY CONTRACTOR

TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
028	02 00 00	04/24/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Sutton, MA 01590

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	3/4" Crushed Stone	Wapping S&G				1	CMB
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
b. ACTION CODED 3 SHALL BE RESUBMITTED WITHIN TIME LIMIT SET IN CONTRACT
c. REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS

Weston & Sampson
Christopher M. Berthiaume
Engineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE: 4/24/20

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: 028 **ITEM NO.:** 1

DESCRIPTION: 3/4" Stone (Wapping S&G)

RECOMMENDED ACTION:

- [X] 1 - Furnish As Submitted
- [ ] 2 - Furnish As Noted
- [ ] 3 - Revise and Resubmit
- [ ] 4 - Rejected
- [ ] 5 - Acknowledgement
- [ ] See Attached Remarks
- [ ] See Individual Item Actions Below

REMARKS:

1. The proposed material meets the gradation requirement of a No. 6 crushed stone under Conn DOT Article M.01.01.

This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

4-22-2020

Attn: Paul Saccente
Strategic Environmental

Re: Eversource
107 Selden St
Berlin, CT 06037

Wapping Sand & Gravel, LLC (WSG) is providing Strategic Environmental with stone from the John S Lane Stone Quarry in Westfield, MA. The stone from John S Lane is processed in accordance the Connecticut Department of Transportation (CTDOT) Form 817 standard specifications. The sourced material at John S Lane is 100% virgin stone quarried and processed to size. To the best of our knowledge the material is free and clear from contaminants and deleterious materials prior to shipment off-site.

If you have any questions or require further information or clarification, please do not hesitate to contact the undersigned at your earliest convenience.

Sincerely,
Wapping Sand & Gravel

Aaron Dillon
Account Manager

Cc: Corporate Files

ALLIED TESTING LABORATORIES, INC.
115 St. George Road ● Springfield, Massachusetts 01104
Phone: (413)-736-1846 Fax: (413) 736-1838

Client: John S Lane & Son, Inc
Project: Quality Control Testing
Subject: Aggregate Testing

Source: Plant #1–Westfield MA
Attn: Shawn Czepiel
Report No.: 001
Date: 28 February 2020

SPECIFIC GRAVITY & ABSORPTION OF COARSE & FINE AGGREGATE – ASTM C127 & C128

Material Type	Density (OD)	Density (SSD)	Density (Apparent)	%Absorption
1 ½" Stone	2.947	2.954	2.969	0.26%
1" Stone	2.931	2.941	2.959	0.33%
¾" Stone	2.907	2.925	2.962	0.64%
#67 Stone	2.849	2.875	2.923	0.88%
½" Stone	2.901	2.925	2.974	0.85%
3/8" Stone	2.882	2.906	2.954	0.85%
Fine Dust	2.800	2.860	2.979	2.15%
Chip	2.802	2.852	2.948	1.77%
Manufactured Sand	2.815	2.867	2.970	1.85%

RESISTANCE TO DEGRADATION OF AGGREGATE BY ABRAISION & IMPACT IN LOS ANGELES MACHINE – ASTM C131

Material Type	Percent Loss
1 ½" Stone	10.3% Grading A
Chip	20.9% Grading D

SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM – ASTM C88 5 CYCLES

Material Type	Weighted Percent Loss
3/4" Stone	1%
Chip	2%

SIEVE ANALYSIS – ASTM C136 BY WASHING * – ASTM C117

% Passing	1 ½"	1"	¾"	#67	1/2"	3/8"	Fine Dust*	Chip*	Manufactured Sand*
2"	100	100	100	100	100	100	100	100	100
1 ½"	100	100	100	100	100	100	100	100	100
1"	45.2	74.8	100	100	100	100	100	100	100
¾"	6.6	6.9	94.8	96.5	100	100	100	100	100
½"	2.0	0.6	29.5	68.0	86.2	100	100	100	100
3/8"	1.5	0.2	5.3	25.8	25.3	91.5	100	100	100
#4	0.8	0.2	0.9	3.5	3.4	20.5	97.2	92.7	95.5
#8	0.7	0.2	0.9	1.3	1.1	3.4	74.7	30.5	56.4
#16	0.7	0.2	0.6	0.8	0.6	1.6	50.7	5.5	29.1
#30	0.6	0.2	0.5	0.6	0.5	1.2	35.7	4.4	15.6
#50	0.4	0.1	0.3	0.6	0.4	1.1	26.0	4.0	9.2
#100	0.2	0.1	0.1	0.4	0.3	1.0	18.8	3.7	6.7
#200*	0.1	0.1	0.1	0.2	0.1	0.3	13.8	3.2	5.4

FLAT & ELONGATED – ASTM D4791

Ratio	Material Size	% Flat & Elongated
5:1	¾" – ½"	2%
5:1	½" – 3/8"	1%

SAND EQUIVALENCY – ASTM D2419

Fine Dust:	43
Manufactured Sand:	76

FINE AGGREGATE ANGULARITY – ASTM C1252

Fine Dust:	49.1	Method A
Manufactured Sand:	47.1	Method A
Chip:	45.8	Method C

PLASTICITY – AASHTO T90
Fine Dust: Plastic Index = Non-Plastic

CLAY & FRIABLE PARTICLES – AASHTO T112
Fine Dust: 0.63%

FRACTURED FACES – ASTM D5821

Material Size	1 Fractured Face	2 Fractured Faces
3/4"-1/2"	100%	100%
½" – 3/8"	100%	100%

*Samples were taken & delivered to lab by client. The data shown here only pertains to the materials submitted for testing. No guarantee is offered or implied. This data sheet represents a summary of the results of separate tests.

Shop Drawing Transmittal

Weston & Sampson℠

Instruction for Preparing Transmittal
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TRANSM. NO.	SPEC. SECT. NO.	DATE	CONTRACTORS JOB NO.	W&S JOB NO.
029	02 00 00	04/24/2020	19-0373	2160758

PROJECT NAME & CONTRACT NO.	LOCATION
Berlin Settling Basin Remediation Project	107 Selden Street Berlin, CT 06037

TO	FROM
Attention: Ryan Bartosz (BartoszR@wseinc.com) Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive Reading, MA 01867	Strategic Environmental Services, Inc. 362 Putnam Hill Road Southington, CT 06489

ITEM NO.	DESCRIPTION	SOURCE	DRAWING NO. CATALOG NO. BROUCHURE, ETC	NO. OF COPIES	CONTRACT DRAWING REF.	BY W&S ACTION CODE	BY W&S REVIEWED BY
1	Gravel Borrow	Wapping Sand and Gravel				2	CM
2							
3							
4							

THIS CERTIFIES THAT ALL ITEMS SUBMITTED HEREWITH HAVE BEEN CHECKED BY THE CONTRACTOR, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT AS NOTED, AND ARE APPROVED BY THE CONTRACTOR FOR THIS PROJECT.

SIGNATURE & TITLE: Ryan Gadoury, Project Manager

THIS SECTION TO BE COMPLETED BY W&S

ACTION CODE:
1. FURNISH AS SUBMITTED
2. FURNISH AS NOTED
3. REVISE AND RESUBMIT
4. REJECTED- SEE REMARKS
5. ACKNOWLEDGEMENT
6. SUBMITTAL NOT REQUIRED, RETURNED WITHOUT REVIEW

a. INSTALLATION SHALL PROCEED ONLY WHEN ACTION CODE IS 1 OR 2
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Weston & Sampson

Christopher M. BerthiaumeEngineer II

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067
Tel: 860.513.1473

SHOP DRAWING MEMORANDUM

TO: Ryan Gadoury (Strategic Environmental Services)

FROM: Chris Berthiaume (Weston & Sampson)

DATE:

PROJECT: Eversource Berlin Campus Settling Basin Remediation

TRANSM. NO.: **ITEM NO.:**

DESCRIPTION:

RECOMMENDED ACTION:

☐ 1 - Furnish As Submitted ☒ 2 - Furnish As Noted ☐ 3 - Revise and Resubmit

☐ 4 - Rejected ☐ 5 - Acknowledgement ☐ See Attached Remarks

☐ See Individual Item Actions Below

REMARKS:

Weston & Sampson approves of this material as a non-polluted soil and natural soil, allowing it to be used on site in all locations where gravel borrow is prescribed. Please note the following: - The chromium detection is at a concentration greater than that allowed for a non-polluted soil per the high range background concentration described in the specifications. However, it is Weston & Sampson's opinion based on the information provided that the certified virgin source material has not been subject to a release is exhibiting background concentrations of chromium. - The cadmium and thallium reporting limits are slightly above the high range background concentrations described in the specifications. SES should work with the lab to get the RL's lowered such that future testing can demonstrate that non-detect cadmium and thallium samples comply with the specifications.

This submittal has been reviewed for general conformance with the plans and specifications for this project. Corrections, comments, and/or clarifications noted do not relieve the contractor from coordinating and correlating all dimensions and quantities, selections of construction techniques, coordinating the work of its forces and the other trades, and performance of the work in a safe and satisfactory manner.

4-22-2020

Attn: Paul Saccente
Strategic Environmental

Re: Eversource
107 Selden St
Berlin, CT 06037

Wapping Sand & Gravel, LLC (WSG) processes and manufacturers various sand and gravel products for commercial, industrial and residential delivery. The sand and gravel materials at the Wapping Road quarry are processed in accordance the Connecticut Department of Transportation (CTDOT) Form 817 standard specifications. The sourced material at Wapping Road is 100% virgin sand and gravel quarried and processed to size. To the best of our knowledge the material is free and clear from contaminants and deleterious materials prior to shipment off-site. WSG maintains analytical documentation on site that may be provided upon request.

If you have any questions or require further information or clarification, please do not hesitate to contact the undersigned at your earliest convenience.

Sincerely,
Wapping Sand & Gravel

Aaron Dillon
Account Manager

Cc: Corporate Files

MOISTURE DENSITY TEST DATA

3/16/2020

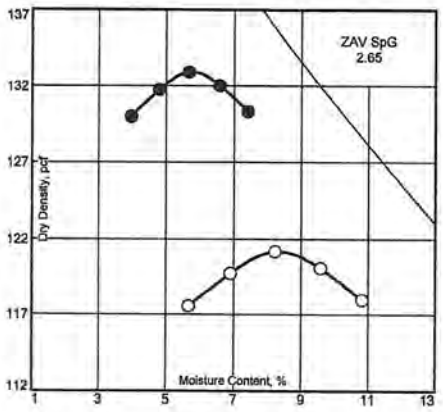
Client: : Graig Johnson Date: 03/14/2020
Project: : Wapping Sand & Gravel
Location: Onsite Quarry Date: 03/14/2020
Depth: N/A **Sample Number:** 138-20
Description: 3" Minus bankrun gravel with sand, trace fines
USCS Classification: N/A **AASHTO Classification:** N/A
Natural Moisture: N/A **Liquid Limit:** N/A **Plasticity Index:** N/A
Testing Remarks: ASTM D 1557-07 method C modified, Assumed Specific Gravity 2.65 %
Tested by: IC **Checked by:** HC

Test Data and Results For Curve 001

Test Specification:

Type of Test: ASTM D 1557-07 Method C Modified

Mold Dia: 6.00 **Hammer Wt.:** 10 lb. **Drop:** 18 in. **Layers:** five **Blows per Layer:** 56



Point No.	1	2	3	4	5
Wt. M+S	10734.3	10863.9	10970.5	10985.6	10955.7
Wt. M	6509.0	6509.0	6509.0	6509.0	6509.0
Wt. W+T	500.0	500.0	500.0	500.0	500.0
Wt. D+T	473.2	467.7	462.0	456.3	451.2
Tare	0.0	0.0	0.0	0.0	0.0
Moist.	5.7	6.9	8.2	9.6	10.8
Moist.*	4.0	4.8	5.7	6.6	7.4
Dry Den.*	130.0	131.8	132.9	132.0	130.3

Rock Corrected Results: Max. Dry Den.= 132.9 pcf Opt. Moist.= 5.7%
Uncorrected Results: Max. Dry Den.= 121.2 pcf Opt. Moist.= 8.3%

Rock Correction Data:

Correction Method: ASTM D 4718-87

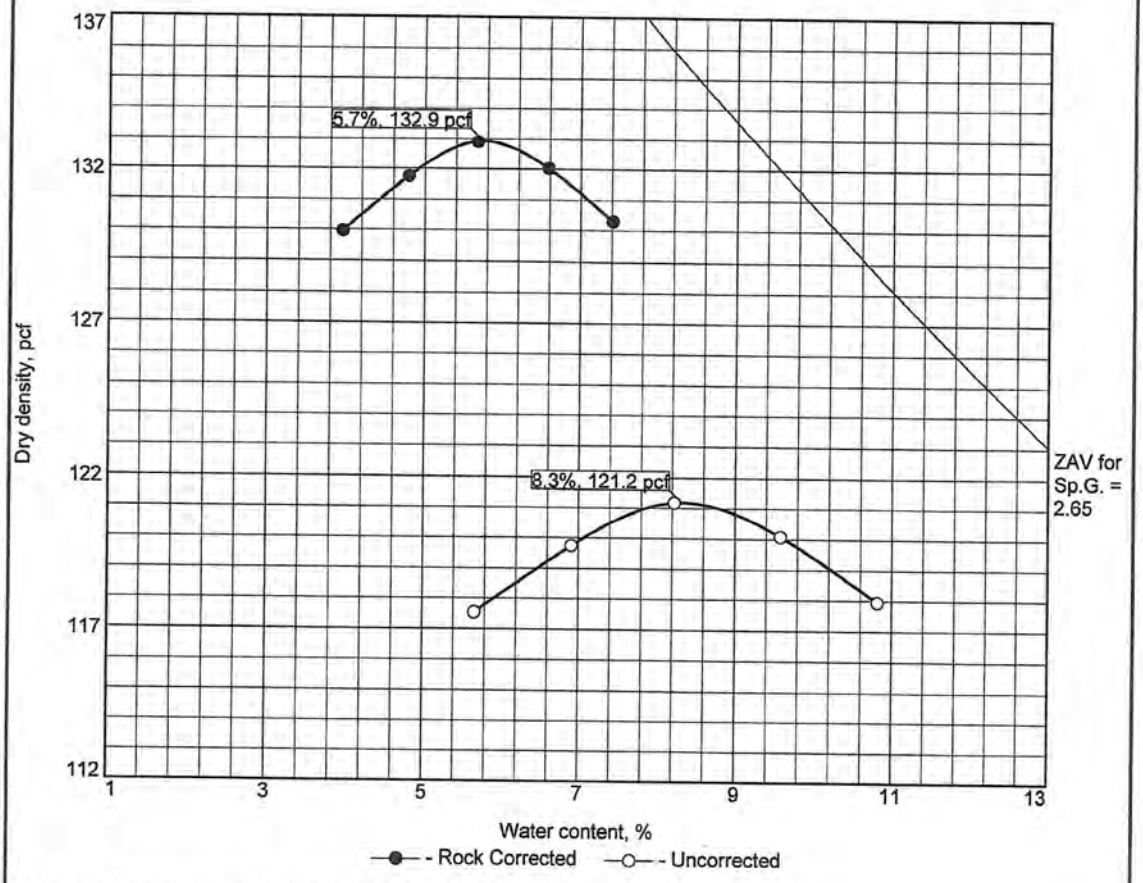
Percentage of Oversize Material (%> 3/4 in.): 33.0 **Bulk Specific Gravity of Oversize Material:** 2.65

Oversize Material Moisture Content: 0.5

*Note: the rock correction was applied to every test point's density and moisture value.

Tri State Materials Testing Lab

COMPACTION TEST REPORT



Test specification: ASTM D 1557-07 Method C Modified
ASTM D 4718-87 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
N/A	N/A	N/A	N/A		N/A	N/A	33.0	5.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 132.9 pcf	121.2 pcf	3" Minus bankrun gravel with sand, trace fines
Optimum moisture = 5.7 %	8.3 %	

Project No. **Client:** : Graig Johnson Date:
Project: : Wapping Sand & Gravel
○ **Source:** Onsite Quarry Date: 03/14/2020

Tri State Materials Testing Lab
Wallingford, Connecticut

Remarks:
ASTM D 1557-07 method C modified,
Assumed Specific Gravity 2.65 %

Figure

Tested By: IC **Checked By:** HC

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2020

Client: : Graig Johnson — Date: 03/14/2020
Project: : Wapping Sand & Gravel
Location: Onsite Quarry — Date: 03/14/2020
Depth: N/A — **Sample Number:** 138-20
Material Description: 3" Minus bankrun gravel with sand, trace fines
Liquid Limit: N/A — **Plastic Limit:** N/A
USCS Classification: N/A — **AASHTO Classification:** N/A
Testing Remarks: ASTM C 136, C 117 (Material meet the D.O.T spec)
Tested by: IC — **Checked by:** HC
Material specification: D.O.T. M.02.06 -A

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare** = 4101.70
Tare Wt. = 0.00
Minus #200 from wash = 4.9%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer	Percent Retained	Lower Spec. Limit, %	Upper Spec. Limit, %	Deviation From Spec., %
4312.60	0.00	0.00	3"	0.00	100.0	0.0			
			2"	557.90	87.1	12.9			
			1 1/2"	1308.40	69.7	30.3	55.0	100.0	
			3/4"	1702.50	60.5	39.5			
			1/4"	2028.40	53.0	47.0	25.0	60.0	
			#4	2123.70	50.8	49.2			
			#10	2434.20	43.6	56.4	15.0	45.0	
			#40	3260.10	24.4	75.6	5.0	25.0	
			#100	3893.60	9.7	90.3	0.0	10.0	
			#200	4098.20	5.0	95.0	0.0	5.0	

Fractional Components

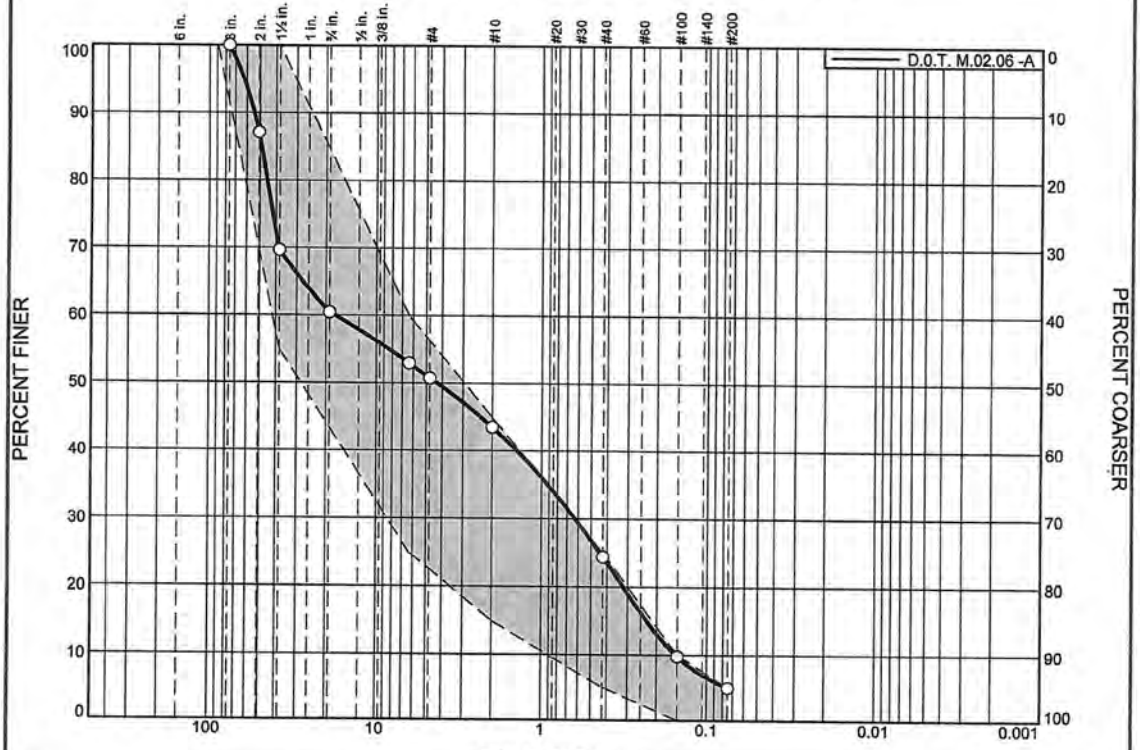
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	39.5	9.7	49.2	7.2	19.2	19.4	45.8			5.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.1542	0.2296	0.3198	0.6255	4.2900	17.5430	45.1869	48.9715	53.9349	61.8340

Fineness Modulus	C_u	C_c
5.22	113.74	0.14

Tri State Materials Testing Lab

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	39.5	9.7	7.2	19.2	19.4	5.0	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	48.9715	17.5430	4.2900	0.6255	0.2296	0.1542	0.14	113.74

Material Description	USCS	AASHTO
○ 3" Minus bankrun gravel with sand, trace fines	N/A	N/A

Project No. **Client:** : Graig Johnson Date: 03/14/

Project: : Wapping Sand & Gravel

○ **Source:** Onsite Quarry Date: 03/14/2020

Remarks:
○ ASTM C 136, C 117 (Material meet the D.O.T spec)

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: IC **Checked By:** HC

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 24, 2020

Paul Saccente
Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 20D0638

Enclosed are results of analyses for samples received by the laboratory on April 15, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Strategic Environmental Services
27 Kreiger Lane - Unit 10
Glastonbury, CT 06033
ATTN: Paul Saccente

REPORT DATE: 4/24/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20D0638

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Wapping Sand and Gravel	20D0638-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260C-D

Qualifications:

L-17

Compound classified by CT RCP as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:

Bromomethane
B256360-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Bromomethane
20D0638-01[Wapping Sand and Gravel], B256360-BLK1, B256360-BS1, S047705-CCV1

SW-846 8270D-E

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorobutadiene
20D0638-01[Wapping Sand and Gravel], S047763-CCV1

Hexachlorocyclopentadiene
20D0638-01[Wapping Sand and Gravel], S047763-CCV1

Pentachlorophenol
20D0638-01[Wapping Sand and Gravel], S047763-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B256375-BLK1, B256375-BS1, B256375-BSD1, S047699-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Nitroaniline
20D0638-01[Wapping Sand and Gravel], S047763-CCV1

Bis(2-chloroethyl)ether
20D0638-01[Wapping Sand and Gravel], S047763-CCV1

Bis(2-chloroisopropyl)ether
20D0638-01[Wapping Sand and Gravel], S047763-CCV1

Pyridine
20D0638-01[Wapping Sand and Gravel], S047763-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline
20D0638-01[Wapping Sand and Gravel], B256375-BLK1, B256375-BS1, B256375-BSD1, S047699-CCV1, S047763-CCV1

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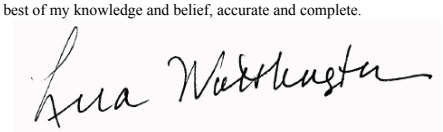
The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.9	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Acrylonitrile	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Benzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Bromobenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Bromodichloromethane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Bromoform	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Bromomethane	ND	0.12	mg/Kg dry	1	V-05	SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
2-Butanone (MEK)	ND	1.2	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
n-Butylbenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
sec-Butylbenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
tert-Butylbenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Carbon Disulfide	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Carbon Tetrachloride	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Chlorobenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Chlorodibromomethane	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Chloroethane	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Chloroform	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Chloromethane	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
2-Chlorotoluene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
4-Chlorotoluene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2-Dibromoethane (EDB)	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Dibromomethane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2-Dichlorobenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,3-Dichlorobenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,4-Dichlorobenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
trans-1,4-Dichloro-2-butene	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1-Dichloroethane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2-Dichloroethane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1-Dichloroethylene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
cis-1,2-Dichloroethylene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
trans-1,2-Dichloroethylene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2-Dichloropropane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,3-Dichloropropane	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
2,2-Dichloropropane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1-Dichloropropene	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
cis-1,3-Dichloropropene	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
trans-1,3-Dichloropropene	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Ethylbenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Hexachlorobutadiene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
2-Hexanone (MBK)	ND	0.58	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Isopropylbenzene (Cumene)	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Methylene Chloride	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.58	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Naphthalene	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
n-Propylbenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Styrene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1,1,2-Tetrachloroethane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Tetrachloroethylene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Tetrahydrofuran	ND	0.58	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Toluene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2,3-Trichlorobenzene	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2,4-Trichlorobenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1,1-Trichloroethane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1,2-Trichloroethane	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Trichloroethylene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Trichlorofluoromethane (Freon 11)	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2,3-Trichloropropane	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,2,4-Trimethylbenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
1,3,5-Trimethylbenzene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
Vinyl Chloride	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
m+p Xylene	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH
o-Xylene	ND	0.058	mg/Kg dry	1		SW-846 8260C-D	4/16/20	4/16/20 11:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.7	70-130		4/16/20 11:20
Toluene-d8	102	70-130		4/16/20 11:20
4-Bromofluorobenzene	102	70-130		4/16/20 11:20

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
4-Chloro-3-methylphenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
Pyridine	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	4/16/20	4/20/20 13:36	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	97.9	30-130			4/20/20 13:36
Phenol-d6	110	30-130			4/20/20 13:36
Nitrobenzene-d5	86.8	30-130			4/20/20 13:36
2-Fluorobiphenyl	111	30-130			4/20/20 13:36
2,4,6-Tribromophenol	84.5	30-130			4/20/20 13:36
p-Terphenyl-d14	105	30-130			4/20/20 13:36

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Aldrin [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
alpha-BHC [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
beta-BHC [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
delta-BHC [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
gamma-BHC (Lindane) [1]	ND	0.0020	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Chlordane [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
4,4'-DDD [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
4,4'-DDE [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
4,4'-DDT [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Dieldrin [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Endosulfan I [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Endosulfan II [1]	ND	0.0080	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Endosulfan sulfate [1]	ND	0.0080	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Endrin [1]	ND	0.0080	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Endrin aldehyde [1]	ND	0.0080	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Endrin ketone [1]	ND	0.0080	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Heptachlor [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Heptachlor epoxide [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Hexachlorobenzene [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Methoxychlor [1]	ND	0.050	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL
Toxaphene [2]	ND	0.10	mg/Kg dry	1		SW-846 8081B	4/16/20	4/22/20 13:23	WAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	88.9	30-150		4/22/20 13:23	
Decachlorobiphenyl [2]	97.3	30-150		4/22/20 13:23	
Tetrachloro-m-xylene [1]	88.2	30-150		4/22/20 13:23	
Tetrachloro-m-xylene [2]	85.7	30-150		4/22/20 13:23	

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	4/15/20	4/17/20 13:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	87.4	30-150				4/17/20 13:57	
Decachlorobiphenyl [2]	86.7	30-150				4/17/20 13:57	
Tetrachloro-m-xylene [1]	101	30-150				4/17/20 13:57	
Tetrachloro-m-xylene [2]	99.8	30-150				4/17/20 13:57	

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	4/21/20	4/23/20 21:39	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	78.7	50-150		4/23/20 21:39

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Arsenic	ND	3.5	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Barium	35	1.8	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Beryllium	0.34	0.18	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Chromium	11	0.70	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Copper	11	0.70				SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Lead	4.1	0.53				SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Mercury	ND	0.027				SW-846 7471B	4/16/20	4/20/20 11:12	CJV
Nickel	9.0	0.70	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Vanadium	17	0.70	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH
Zinc	22	0.70	mg/Kg dry	1		SW-846 6010D	4/16/20	4/16/20 17:02	MJH

See notes on the Shop Drawing

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Project Location: Berlin, CT | Sample Description: | Work Order: 20D0638

Date Received: 4/15/2020

Field Sample #: Wapping Sand and Gravel | Sampled: 4/14/2020 15:30

Sample ID: 20D0638-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	4/22/20	4/22/20 15:14	CBM

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Sample Extraction Data

Prep Method: SW-846 3546 **Analytical Method: CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20D0638-01 [Wapping Sand and Gravel]	B256627	30.0	1.00	04/21/20

Prep Method: % Solids **Analytical Method: SM 2540G**

Lab Number [Field ID]	Batch	Date
20D0638-01 [Wapping Sand and Gravel]	B256691	04/22/20

Prep Method: SW-846 3051 **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20D0638-01 [Wapping Sand and Gravel]	B256399	1.55	50.0	04/16/20

Prep Method: SW-846 7471 **Analytical Method: SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20D0638-01 [Wapping Sand and Gravel]	B256318	0.602	50.0	04/16/20

Prep Method: SW-846 3546 **Analytical Method: SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20D0638-01 [Wapping Sand and Gravel]	B256434	10.8	10.0	04/16/20

Prep Method: SW-846 3540C **Analytical Method: SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20D0638-01 [Wapping Sand and Gravel]	B256267	10.2	10.0	04/15/20

Prep Method: SW-846 5035 **Analytical Method: SW-846 8260C-D**

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
20D0638-01 [Wapping Sand and Gravel]	B256360	10.0	10.8	1	50	04/16/20

Prep Method: SW-846 3546 **Analytical Method: SW-846 8270D-E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20D0638-01 [Wapping Sand and Gravel]	B256375	30.1	1.00	04/16/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256360 - SW-846 5035										
Blank (B256360-BLK1)				Prepared & Analyzed: 04/16/20						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							V-05
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.25	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256360 - SW-846 5035										
Blank (B256360-BLK1)				Prepared & Analyzed: 04/16/20						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0238*		mg/Kg wet	0.0250		95.2	70-130			
Surrogate: Toluene-d8	*0.0250*		mg/Kg wet	0.0250		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0254*		mg/Kg wet	0.0250		102	70-130			
LCS (B256360-BS1)				Prepared & Analyzed: 04/16/20						
Acetone	0.131	0.057	mg/Kg wet	0.113		116	40-160			
Acrylonitrile	0.0129	0.0057	mg/Kg wet	0.0113		114	70-130			
Benzene	0.0110	0.0011	mg/Kg wet	0.0113		97.1	70-130			
Bromobenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.2	70-130			
Bromodichloromethane	0.0105	0.0011	mg/Kg wet	0.0113		92.4	70-130			
Bromoform	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Bromomethane	0.00770	0.0023	mg/Kg wet	0.0113		67.9	40-160			V-05, L-17
2-Butanone (MEK)	0.129	0.023	mg/Kg wet	0.113		114	40-160			
n-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130			
sec-Butylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		96.7	70-130			
tert-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.2	70-130			
Carbon Disulfide	0.112	0.0057	mg/Kg wet	0.113		98.5	70-130			
Carbon Tetrachloride	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
Chlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		98.0	70-130			
Chlorodibromomethane	0.0109	0.00057	mg/Kg wet	0.0113		96.2	40-160			
Chloroethane	0.0125	0.0023	mg/Kg wet	0.0113		110	70-130			
Chloroform	0.0107	0.0023	mg/Kg wet	0.0113		94.5	70-130			
Chloromethane	0.0110	0.0023	mg/Kg wet	0.0113		97.3	40-160			
2-Chlorotoluene	0.0106	0.0011	mg/Kg wet	0.0113		93.2	70-130			
4-Chlorotoluene	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0118	0.0057	mg/Kg wet	0.0113		104	70-130			
1,2-Dibromoethane (EDB)	0.0114	0.00057	mg/Kg wet	0.0113		100	70-130			
Dibromomethane	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2-Dichlorobenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.0	70-130			
1,3-Dichlorobenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.1	70-130			
1,4-Dichlorobenzene	0.0104	0.0011	mg/Kg wet	0.0113		91.7	70-130			
trans-1,4-Dichloro-2-butene	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130			
Dichlorodifluoromethane (Freon 12)	0.0114	0.0023	mg/Kg wet	0.0113		100	40-160			
1,1-Dichloroethane	0.0112	0.0011	mg/Kg wet	0.0113		98.4	70-130			
1,2-Dichloroethane	0.00974	0.0011	mg/Kg wet	0.0113		85.9	70-130			
1,1-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256360 - SW-846 5035										
LCS (B256360-BS1)				Prepared & Analyzed: 04/16/20						
cis-1,2-Dichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		99.0	70-130			
trans-1,2-Dichloroethylene	0.0105	0.0011	mg/Kg wet	0.0113		93.0	70-130			
1,2-Dichloropropane	0.0110	0.0011	mg/Kg wet	0.0113		96.8	70-130			
1,3-Dichloropropane	0.0109	0.00057	mg/Kg wet	0.0113		96.5	70-130			
2,2-Dichloropropane	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
1,1-Dichloropropene	0.0112	0.0023	mg/Kg wet	0.0113		98.8	70-130			
cis-1,3-Dichloropropene	0.0111	0.00057	mg/Kg wet	0.0113		98.0	70-130			
trans-1,3-Dichloropropene	0.0109	0.00057	mg/Kg wet	0.0113		95.9	70-130			
Ethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
Hexachlorobutadiene	0.0105	0.0011	mg/Kg wet	0.0113		92.4	40-160			
2-Hexanone (MBK)	0.128	0.011	mg/Kg wet	0.113		113	70-130			
Isopropylbenzene (Cumene)	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
p-Isopropyltoluene (p-Cymene)	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
Methylene Chloride	0.0115	0.0057	mg/Kg wet	0.0113		101	70-130			
4-Methyl-2-pentanone (MIBK)	0.125	0.011	mg/Kg wet	0.113		110	40-160			
Naphthalene	0.0111	0.0023	mg/Kg wet	0.0113		97.7	70-130			
n-Propylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.7	70-130			
Styrene	0.0111	0.0011	mg/Kg wet	0.0113		97.7	70-130			
1,1,1,2-Tetrachloroethane	0.0112	0.0011	mg/Kg wet	0.0113		98.4	70-130			
1,1,2,2-Tetrachloroethane	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
Tetrachloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.7	70-130			
Tetrahydrofuran	0.0127	0.011	mg/Kg wet	0.0113		112	70-130			
Toluene	0.0108	0.0011	mg/Kg wet	0.0113		95.4	70-130			
1,2,3-Trichlorobenzene	0.0107	0.0057	mg/Kg wet	0.0113		94.5	70-130			
1,2,4-Trichlorobenzene	0.0103	0.0011	mg/Kg wet	0.0113		90.6	70-130			
1,1,1-Trichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		97.5	70-130			
1,1,2-Trichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
Trichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		99.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0113	0.0023	mg/Kg wet	0.0113		99.6	40-160			
1,2,3-Trichloropropane	0.0122	0.0023	mg/Kg wet	0.0113		108	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,2,4-Trimethylbenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.8	70-130			
1,3,5-Trimethylbenzene	0.0111	0.0011	mg/Kg wet	0.0113		98.2	70-130			
Vinyl Chloride	0.0115	0.0023	mg/Kg wet	0.0113		102	70-130			
m+p Xylene	0.0222	0.0023	mg/Kg wet	0.0227		97.8	70-130			
o-Xylene	0.0110	0.0011	mg/Kg wet	0.0113		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0264*		mg/Kg wet	0.0283		93.1	70-130			
Surrogate: Toluene-d8	*0.0284*		mg/Kg wet	0.0283		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0289*		mg/Kg wet	0.0283		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256375 - SW-846 3546										
Blank (B256375-BLK1)				Prepared: 04/16/20 Analyzed: 04/17/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-06
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B256375 - SW-846 3546											
Blank (B256375-BLK1)				Prepared: 04/16/20 Analyzed: 04/17/20							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.6	30-130				
Surrogate: Phenol-d6	*6.10*		mg/Kg wet	6.67		91.5	30-130				
Surrogate: Nitrobenzene-d5	*2.73*		mg/Kg wet	3.33		81.8	30-130				
Surrogate: 2-Fluorobiphenyl	*3.18*		mg/Kg wet	3.33		95.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.17*		mg/Kg wet	6.67		77.6	30-130				
Surrogate: p-Terphenyl-d14	*3.13*		mg/Kg wet	3.33		94.0	30-130				
LCS (B256375-BS1)				Prepared: 04/16/20 Analyzed: 04/17/20							
Acenaphthene	1.46	0.17	mg/Kg wet	1.67		87.7	40-140				
Acenaphthylene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140				
Aniline	1.27	0.34	mg/Kg wet	1.67		76.2	40-140				†
Anthracene	1.59	0.17	mg/Kg wet	1.67		95.3	40-140				
Benzo(a)anthracene	1.53	0.17	mg/Kg wet	1.67		91.8	40-140				
Benzo(a)pyrene	1.59	0.17	mg/Kg wet	1.67		95.4	40-140				
Benzo(b)fluoranthene	1.56	0.17	mg/Kg wet	1.67		93.3	40-140				
Benzo(g,h,i)perylene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140				
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.67		94.8	40-140				
Bis(2-chloroethoxy)methane	1.51	0.34	mg/Kg wet	1.67		90.5	40-140				
Bis(2-chloroethyl)ether	1.41	0.34	mg/Kg wet	1.67		84.8	40-140				
Bis(2-chloroisopropyl)ether	1.53	0.34	mg/Kg wet	1.67		92.1	40-140				
Bis(2-Ethylhexyl)phthalate	1.51	0.34	mg/Kg wet	1.67		90.4	40-140				
4-Bromophenylphenylether	1.46	0.34	mg/Kg wet	1.67		87.6	40-140				
Butylbenzylphthalate	1.65	0.34	mg/Kg wet	1.67		98.8	40-140				
Carbazole	1.59	0.17	mg/Kg wet	1.67		95.6	40-140				
4-Chloroaniline	0.957	0.66	mg/Kg wet	1.67		57.4	40-140			V-34	†
4-Chloro-3-methylphenol	1.64	0.66	mg/Kg wet	1.67		98.3	30-130				
2-Chloronaphthalene	1.27	0.34	mg/Kg wet	1.67		76.4	40-140				
2-Chlorophenol	1.47	0.34	mg/Kg wet	1.67		88.0	30-130				
4-Chlorophenylphenylether	1.46	0.34	mg/Kg wet	1.67		87.5	40-140				
Chrysene	1.52	0.17	mg/Kg wet	1.67		91.0	40-140				
Dibenz(a,h)anthracene	1.60	0.17	mg/Kg wet	1.67		96.1	40-140				
Dibenzofuran	1.53	0.34	mg/Kg wet	1.67		92.0	40-140				
Di-n-butylphthalate	1.58	0.34	mg/Kg wet	1.67		94.8	40-140				
3,3-Dichlorobenzidine	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			V-06	†
2,4-Dichlorophenol	1.56	0.34	mg/Kg wet	1.67		93.5	30-130				
Diethylphthalate	1.47	0.34	mg/Kg wet	1.67		88.2	40-140				
2,4-Dimethylphenol	1.33	0.34	mg/Kg wet	1.67		79.7	30-130				
Dimethylphthalate	1.48	0.34	mg/Kg wet	1.67		88.7	40-140				
4,6-Dinitro-2-methylphenol	1.37	0.34	mg/Kg wet	1.67		81.9	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256375 - SW-846 3546										
LCS (B256375-BS1)				Prepared: 04/16/20 Analyzed: 04/17/20						
2,4-Dinitrophenol	1.17	0.66	mg/Kg wet	1.67		70.3	30-130			
2,4-Dinitrotoluene	1.61	0.34	mg/Kg wet	1.67		96.6	40-140			
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		99.0	40-140			
Di-n-octylphthalate	1.60	0.34	mg/Kg wet	1.67		96.0	40-140			
Fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.0	40-140			
Fluorene	1.58	0.17	mg/Kg wet	1.67		94.8	40-140			
Hexachlorobenzene	1.52	0.34	mg/Kg wet	1.67		91.0	40-140			
Hexachlorobutadiene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140			
Hexachlorocyclopentadiene	1.17	0.34	mg/Kg wet	1.67		69.9	30-140			
Hexachloroethane	1.32	0.34	mg/Kg wet	1.67		79.1	40-140			
Indeno(1,2,3-cd)pyrene	1.81	0.17	mg/Kg wet	1.67		108	40-140			
Isophorone	1.57	0.34	mg/Kg wet	1.67		94.1	40-140			
2-Methylnaphthalene	1.65	0.17	mg/Kg wet	1.67		99.0	40-140			
2-Methylphenol	1.47	0.34	mg/Kg wet	1.67		88.3	30-130			
3/4-Methylphenol	1.58	0.34	mg/Kg wet	1.67		95.1	30-130			
Naphthalene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140			
2-Nitroaniline	2.01	0.34	mg/Kg wet	1.67		121	40-140			
3-Nitroaniline	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			†
4-Nitroaniline	1.72	0.34	mg/Kg wet	1.67		103	40-140			
Nitrobenzene	1.44	0.34	mg/Kg wet	1.67		86.3	40-140			
2-Nitrophenol	1.58	0.34	mg/Kg wet	1.67		95.0	30-130			
4-Nitrophenol	1.74	0.66	mg/Kg wet	1.67		104	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.55	0.34	mg/Kg wet	1.67		92.8	40-140			
N-Nitrosodi-n-propylamine	1.45	0.34	mg/Kg wet	1.67		87.2	40-140			
Pentachloronitrobenzene	1.53	0.34	mg/Kg wet	1.67		91.7	40-140			
Pentachlorophenol	1.52	0.34	mg/Kg wet	1.67		91.0	30-130			
Phenanthrene	1.58	0.17	mg/Kg wet	1.67		94.6	40-140			
Phenol	1.47	0.34	mg/Kg wet	1.67		88.1	20-130			
Pyrene	1.54	0.17	mg/Kg wet	1.67		92.5	40-140			
Pyridine	1.09	0.34	mg/Kg wet	1.67		65.5	10-140			†
1,2,4,5-Tetrachlorobenzene	1.40	0.34	mg/Kg wet	1.67		84.2	40-140			
1,2,4-Trichlorobenzene	1.41	0.34	mg/Kg wet	1.67		84.4	40-140			
2,4,5-Trichlorophenol	1.55	0.34	mg/Kg wet	1.67		93.2	30-130			
2,4,6-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.4	30-130			
Surrogate: 2-Fluorophenol	*5.92*		mg/Kg wet	6.67		88.8	30-130			
Surrogate: Phenol-d6	*6.19*		mg/Kg wet	6.67		92.9	30-130			
Surrogate: Nitrobenzene-d5	*2.98*		mg/Kg wet	3.33		89.5	30-130			
Surrogate: 2-Fluorobiphenyl	*3.36*		mg/Kg wet	3.33		101	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.31*		mg/Kg wet	6.67		94.6	30-130			
Surrogate: p-Terphenyl-d14	*3.10*		mg/Kg wet	3.33		93.1	30-130			
LCS Dup (B256375-BSD1)				Prepared: 04/16/20 Analyzed: 04/17/20						
Acenaphthene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140	1.49	30	
Acenaphthylene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	1.28	30	
Aniline	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	2.82	50	† ‡
Anthracene	1.57	0.17	mg/Kg wet	1.67		94.2	40-140	1.10	30	
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140	3.78	30	
Benzo(a)pyrene	1.57	0.17	mg/Kg wet	1.67		94.4	40-140	1.03	30	
Benzo(b)fluoranthene	1.54	0.17	mg/Kg wet	1.67		92.4	40-140	1.03	30	
Benzo(g,h,i)perylene	1.49	0.17	mg/Kg wet	1.67		89.4	40-140	1.62	30	
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.67		94.7	40-140	0.0844	30	
Bis(2-chloroethoxy)methane	1.45	0.34	mg/Kg wet	1.67		87.0	40-140	3.94	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B256375 - SW-846 3546											
LCS Dup (B256375-BSD1)				Prepared: 04/16/20 Analyzed: 04/17/20							
Bis(2-chloroethyl)ether	1.38	0.34	mg/Kg wet	1.67		82.6	40-140	2.61	30		
Bis(2-chloroisopropyl)ether	1.53	0.34	mg/Kg wet	1.67		91.7	40-140	0.370	30		
Bis(2-Ethylhexyl)phthalate	1.46	0.34	mg/Kg wet	1.67		87.8	40-140	3.01	30		
4-Bromophenylphenylether	1.46	0.34	mg/Kg wet	1.67		87.7	40-140	0.183	30		
Butylbenzylphthalate	1.59	0.34	mg/Kg wet	1.67		95.4	40-140	3.44	30		
Carbazole	1.60	0.17	mg/Kg wet	1.67		95.9	40-140	0.292	30		
4-Chloroaniline	0.982	0.66	mg/Kg wet	1.67		58.9	40-140	2.51	30	V-34	†
4-Chloro-3-methylphenol	1.59	0.66	mg/Kg wet	1.67		95.6	30-130	2.72	30		
2-Chloronaphthalene	1.30	0.34	mg/Kg wet	1.67		78.0	40-140	2.07	30		
2-Chlorophenol	1.43	0.34	mg/Kg wet	1.67		85.8	30-130	2.53	30		
4-Chlorophenylphenylether	1.47	0.34	mg/Kg wet	1.67		88.3	40-140	0.955	30		
Chrysene	1.48	0.17	mg/Kg wet	1.67		88.9	40-140	2.31	30		
Dibenz(a,h)anthracene	1.59	0.17	mg/Kg wet	1.67		95.4	40-140	0.668	30		
Dibenzofuran	1.54	0.34	mg/Kg wet	1.67		92.2	40-140	0.217	30		
Di-n-butylphthalate	1.56	0.34	mg/Kg wet	1.67		93.4	40-140	1.47	30		
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	1.20	30	V-06	† ‡
2,4-Dichlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7	30-130	1.99	30		
Diethylphthalate	1.48	0.34	mg/Kg wet	1.67		88.6	40-140	0.475	30		
2,4-Dimethylphenol	1.32	0.34	mg/Kg wet	1.67		79.0	30-130	0.932	30		
Dimethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.5	40-140	0.830	50		
4,6-Dinitro-2-methylphenol	1.36	0.34	mg/Kg wet	1.67		81.9	30-130	0.0244	50		
2,4-Dinitrophenol	1.17	0.66	mg/Kg wet	1.67		69.9	30-130	0.485	50		
2,4-Dinitrotoluene	1.61	0.34	mg/Kg wet	1.67		96.4	40-140	0.269	30		
2,6-Dinitrotoluene	1.67	0.34	mg/Kg wet	1.67		99.9	40-140	0.945	30		
Di-n-octylphthalate	1.58	0.34	mg/Kg wet	1.67		94.9	40-140	1.15	30		
Fluoranthene	1.59	0.17	mg/Kg wet	1.67		95.4	40-140	0.627	30		
Fluorene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140	0.0421	30		
Hexachlorobenzene	1.49	0.34	mg/Kg wet	1.67		89.2	40-140	2.02	30		
Hexachlorobutadiene	1.28	0.34	mg/Kg wet	1.67		76.5	40-140	1.25	30		
Hexachlorocyclopentadiene	1.18	0.34	mg/Kg wet	1.67		70.6	30-140	0.968	50		
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.1	40-140	3.87	50		
Indeno(1,2,3-cd)pyrene	1.77	0.17	mg/Kg wet	1.67		106	40-140	2.22	50		
Isophorone	1.52	0.34	mg/Kg wet	1.67		91.2	40-140	3.19	30		
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140	2.83	30		
2-Methylphenol	1.47	0.34	mg/Kg wet	1.67		88.1	30-130	0.227	30		
3/4-Methylphenol	1.58	0.34	mg/Kg wet	1.67		95.0	30-130	0.126	30		
Naphthalene	1.43	0.17	mg/Kg wet	1.67		85.8	40-140	3.82	30		
2-Nitroaniline	2.05	0.34	mg/Kg wet	1.67		123	40-140	2.00	30		
3-Nitroaniline	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	3.44	30		†
4-Nitroaniline	1.74	0.34	mg/Kg wet	1.67		104	40-140	1.00	30		
Nitrobenzene	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	1.73	30		
2-Nitrophenol	1.54	0.34	mg/Kg wet	1.67		92.1	30-130	3.08	30		
4-Nitrophenol	1.74	0.66	mg/Kg wet	1.67		105	10-130	0.0956	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.57	0.34	mg/Kg wet	1.67		94.4	40-140	1.69	30		
N-Nitrosodi-n-propylamine	1.42	0.34	mg/Kg wet	1.67		85.4	40-140	2.11	30		
Pentachloronitrobenzene	1.53	0.34	mg/Kg wet	1.67		91.9	40-140	0.261	30		
Pentachlorophenol	1.49	0.34	mg/Kg wet	1.67		89.2	30-130	1.98	50		
Phenanthrene	1.56	0.17	mg/Kg wet	1.67		93.3	40-140	1.36	30		
Phenol	1.46	0.34	mg/Kg wet	1.67		87.4	20-130	0.821	30		
Pyrene	1.51	0.17	mg/Kg wet	1.67		90.5	40-140	2.14	30		
Pyridine	1.03	0.34	mg/Kg wet	1.67		61.6	10-140	6.20	50		†
1,2,4,5-Tetrachlorobenzene	1.43	0.34	mg/Kg wet	1.67		85.9	40-140	1.98	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256375 - SW-846 3546										
LCS Dup (B256375-BSD1)				Prepared: 04/16/20 Analyzed: 04/17/20						
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.5	40-140	4.73	30	
2,4,5-Trichlorophenol	1.56	0.34	mg/Kg wet	1.67		93.4	30-130	0.257	30	
2,4,6-Trichlorophenol	1.52	0.34	mg/Kg wet	1.67		91.0	30-130	0.684	50	
Surrogate: 2-Fluorophenol	*5.74*		mg/Kg wet	6.67		86.0	30-130			
Surrogate: Phenol-d6	*6.10*		mg/Kg wet	6.67		91.5	30-130			
Surrogate: Nitrobenzene-d5	*2.87*		mg/Kg wet	3.33		86.1	30-130			
Surrogate: 2-Fluorobiphenyl	*3.33*		mg/Kg wet	3.33		99.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.27*		mg/Kg wet	6.67		94.0	30-130			
Surrogate: p-Terphenyl-d14	*3.01*		mg/Kg wet	3.33		90.2	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256434 - SW-846 3546										
Blank (B256434-BLK1)				Prepared: 04/16/20 Analyzed: 04/21/20						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.211*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256434 - SW-846 3546										
LCS (B256434-BS1)				Prepared: 04/16/20 Analyzed: 04/22/20						
alpha-Chlordane	0.10	0.0050	mg/Kg wet	0.100		104	40-140			
alpha-Chlordane [2C]	0.10	0.0050	mg/Kg wet	0.100		104	40-140			
gamma-Chlordane	0.10	0.0050	mg/Kg wet	0.100		105	40-140			
gamma-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.100		107	40-140			
Alachlor	0.097	0.020	mg/Kg wet	0.100		96.5	40-140			
Alachlor [2C]	0.091	0.020	mg/Kg wet	0.100		90.7	40-140			
Aldrin	0.10	0.0050	mg/Kg wet	0.100		103	40-140			
Aldrin [2C]	0.10	0.0050	mg/Kg wet	0.100		101	40-140			
alpha-BHC	0.086	0.0050	mg/Kg wet	0.100		86.5	40-140			
alpha-BHC [2C]	0.088	0.0050	mg/Kg wet	0.100		87.8	40-140			
beta-BHC	0.10	0.0050	mg/Kg wet	0.100		101	40-140			
beta-BHC [2C]	0.10	0.0050	mg/Kg wet	0.100		101	40-140			
delta-BHC	0.087	0.0050	mg/Kg wet	0.100		87.4	40-140			
delta-BHC [2C]	0.088	0.0050	mg/Kg wet	0.100		87.8	40-140			
gamma-BHC (Lindane)	0.092	0.0020	mg/Kg wet	0.100		91.7	40-140			
gamma-BHC (Lindane) [2C]	0.091	0.0020	mg/Kg wet	0.100		90.9	40-140			
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		104	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		110	40-140			
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		107	40-140			
4,4'-DDT	0.099	0.0040	mg/Kg wet	0.100		98.6	40-140			
4,4'-DDT [2C]	0.096	0.0040	mg/Kg wet	0.100		96.4	40-140			
Dieldrin	0.099	0.0040	mg/Kg wet	0.100		98.7	40-140			
Dieldrin [2C]	0.10	0.0040	mg/Kg wet	0.100		99.5	40-140			
Endosulfan I	0.095	0.0050	mg/Kg wet	0.100		95.5	40-140			
Endosulfan I [2C]	0.099	0.0050	mg/Kg wet	0.100		99.4	40-140			
Endosulfan II	0.10	0.0080	mg/Kg wet	0.100		101	40-140			
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		104	40-140			
Endosulfan Sulfate	0.098	0.0080	mg/Kg wet	0.100		98.0	40-140			
Endosulfan Sulfate [2C]	0.10	0.0080	mg/Kg wet	0.100		101	40-140			
Endrin	0.099	0.0080	mg/Kg wet	0.100		98.7	40-140			
Endrin [2C]	0.10	0.0080	mg/Kg wet	0.100		102	40-140			
Endrin Aldehyde	0.092	0.0080	mg/Kg wet	0.100		92.3	40-140			
Endrin Aldehyde [2C]	0.098	0.0080	mg/Kg wet	0.100		97.8	40-140			
Endrin Ketone	0.10	0.0080	mg/Kg wet	0.100		100	40-140			
Endrin Ketone [2C]	0.11	0.0080	mg/Kg wet	0.100		106	40-140			
Heptachlor	0.090	0.0050	mg/Kg wet	0.100		90.4	40-140			
Heptachlor [2C]	0.092	0.0050	mg/Kg wet	0.100		91.6	40-140			
Heptachlor Epoxide	0.096	0.0050	mg/Kg wet	0.100		96.3	40-140			
Heptachlor Epoxide [2C]	0.099	0.0050	mg/Kg wet	0.100		98.9	40-140			
Hexachlorobenzene	0.10	0.0060	mg/Kg wet	0.100		104	40-140			
Hexachlorobenzene [2C]	0.10	0.0060	mg/Kg wet	0.100		102	40-140			
Methoxychlor	0.093	0.050	mg/Kg wet	0.100		92.8	40-140			
Methoxychlor [2C]	0.097	0.050	mg/Kg wet	0.100		96.7	40-140			
Surrogate: Decachlorobiphenyl	*0.213*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.219*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg wet	0.200		94.0	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256434 - SW-846 3546										
LCS (B256434-BS2)				Prepared: 04/16/20 Analyzed: 04/22/20						
Chlordane	0.11	0.020	mg/Kg wet	0.100		114	40-140			
Chlordane [2C]	0.11	0.020	mg/Kg wet	0.100		107	40-140			
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.219*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene	*0.211*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
LCS Dup (B256434-BSD1)				Prepared: 04/16/20 Analyzed: 04/22/20						
alpha-Chlordane	0.11	0.0050	mg/Kg wet	0.100		110	40-140	5.50	30	
alpha-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.100		110	40-140	5.21	30	
gamma-Chlordane	0.11	0.0050	mg/Kg wet	0.100		112	40-140	6.31	30	
gamma-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.100		112	40-140	5.30	30	
Alachlor	0.10	0.020	mg/Kg wet	0.100		99.6	40-140	3.17	30	
Alachlor [2C]	0.097	0.020	mg/Kg wet	0.100		97.3	40-140	7.04	30	
Aldrin	0.11	0.0050	mg/Kg wet	0.100		110	40-140	7.26	30	
Aldrin [2C]	0.11	0.0050	mg/Kg wet	0.100		109	40-140	6.93	30	
alpha-BHC	0.11	0.0050	mg/Kg wet	0.100		110	40-140	24.0	30	
alpha-BHC [2C]	0.11	0.0050	mg/Kg wet	0.100		111	40-140	23.2	30	
beta-BHC	0.11	0.0050	mg/Kg wet	0.100		113	40-140	11.0	30	
beta-BHC [2C]	0.11	0.0050	mg/Kg wet	0.100		113	40-140	10.4	30	
delta-BHC	0.10	0.0050	mg/Kg wet	0.100		102	40-140	15.1	30	
delta-BHC [2C]	0.10	0.0050	mg/Kg wet	0.100		102	40-140	14.8	30	
gamma-BHC (Lindane)	0.11	0.0020	mg/Kg wet	0.100		110	40-140	18.4	30	
gamma-BHC (Lindane) [2C]	0.11	0.0020	mg/Kg wet	0.100		109	40-140	17.9	30	
4,4'-DDD	0.11	0.0040	mg/Kg wet	0.100		110	40-140	4.97	30	
4,4'-DDD [2C]	0.11	0.0040	mg/Kg wet	0.100		107	40-140	4.99	30	
4,4'-DDE	0.12	0.0040	mg/Kg wet	0.100		116	40-140	5.15	30	
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		112	40-140	5.25	30	
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.100		105	40-140	6.71	30	
4,4'-DDT [2C]	0.10	0.0040	mg/Kg wet	0.100		103	40-140	6.14	30	
Dieldrin	0.10	0.0040	mg/Kg wet	0.100		104	40-140	5.25	30	
Dieldrin [2C]	0.10	0.0040	mg/Kg wet	0.100		104	40-140	4.66	30	
Endosulfan I	0.10	0.0050	mg/Kg wet	0.100		102	40-140	6.49	30	
Endosulfan I [2C]	0.11	0.0050	mg/Kg wet	0.100		106	40-140	6.39	30	
Endosulfan II	0.11	0.0080	mg/Kg wet	0.100		106	40-140	5.34	30	
Endosulfan II [2C]	0.11	0.0080	mg/Kg wet	0.100		110	40-140	5.11	30	
Endosulfan Sulfate	0.10	0.0080	mg/Kg wet	0.100		104	40-140	5.64	30	
Endosulfan Sulfate [2C]	0.11	0.0080	mg/Kg wet	0.100		107	40-140	5.55	30	
Endrin	0.11	0.0080	mg/Kg wet	0.100		105	40-140	6.40	30	
Endrin [2C]	0.11	0.0080	mg/Kg wet	0.100		108	40-140	6.30	30	
Endrin Aldehyde	0.097	0.0080	mg/Kg wet	0.100		96.5	40-140	4.42	30	
Endrin Aldehyde [2C]	0.10	0.0080	mg/Kg wet	0.100		102	40-140	4.34	30	
Endrin Ketone	0.11	0.0080	mg/Kg wet	0.100		106	40-140	5.20	30	
Endrin Ketone [2C]	0.11	0.0080	mg/Kg wet	0.100		111	40-140	5.10	30	
Heptachlor	0.10	0.0050	mg/Kg wet	0.100		104	40-140	14.4	30	
Heptachlor [2C]	0.11	0.0050	mg/Kg wet	0.100		106	40-140	14.3	30	
Heptachlor Epoxide	0.10	0.0050	mg/Kg wet	0.100		103	40-140	6.89	30	
Heptachlor Epoxide [2C]	0.11	0.0050	mg/Kg wet	0.100		106	40-140	6.46	30	
Hexachlorobenzene	0.11	0.0060	mg/Kg wet	0.100		114	40-140	9.20	30	
Hexachlorobenzene [2C]	0.11	0.0060	mg/Kg wet	0.100		111	40-140	8.49	30	
Methoxychlor	0.098	0.050	mg/Kg wet	0.100		97.9	40-140	5.37	30	
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		102	40-140	5.57	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256434 - SW-846 3546										
LCS Dup (B256434-BSD1)				Prepared: 04/16/20 Analyzed: 04/22/20						
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.225*		mg/Kg wet	0.200		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg wet	0.200		104	30-150			
LCS Dup (B256434-BSD2)				Prepared: 04/16/20 Analyzed: 04/22/20						
Chlordane	0.13	0.020	mg/Kg wet	0.100		125	40-140	9.32	30	
Chlordane [2C]	0.12	0.020	mg/Kg wet	0.100		119	40-140	10.1	30	
Surrogate: Decachlorobiphenyl	*0.226*		mg/Kg wet	0.200		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.234*		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	*0.233*		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.221*		mg/Kg wet	0.200		110	30-150			
Matrix Spike (B256434-MS1)	**Source: 20D0638-01**			Prepared: 04/16/20 Analyzed: 04/22/20						
Alachlor	0.12	0.021	mg/Kg dry	0.106	ND	110	30-150			
Alachlor [2C]	0.11	0.021	mg/Kg dry	0.106	ND	98.8	30-150			
Aldrin	0.10	0.0053	mg/Kg dry	0.106	ND	97.4	30-150			
Aldrin [2C]	0.10	0.0053	mg/Kg dry	0.106	ND	97.3	30-150			
alpha-BHC	0.090	0.0053	mg/Kg dry	0.106	ND	84.8	30-150			
alpha-BHC [2C]	0.098	0.0053	mg/Kg dry	0.106	ND	92.3	30-150			
beta-BHC	0.10	0.0053	mg/Kg dry	0.106	ND	98.5	30-150			
beta-BHC [2C]	0.11	0.0053	mg/Kg dry	0.106	ND	101	30-150			
delta-BHC	0.093	0.0053	mg/Kg dry	0.106	ND	87.8	30-150			
delta-BHC [2C]	0.094	0.0053	mg/Kg dry	0.106	ND	88.1	30-150			
gamma-BHC (Lindane)	0.099	0.0021	mg/Kg dry	0.106	ND	93.1	30-150			
gamma-BHC (Lindane) [2C]	0.10	0.0021	mg/Kg dry	0.106	ND	95.6	30-150			
4,4'-DDD	0.11	0.0043	mg/Kg dry	0.106	ND	100	30-150			
4,4'-DDD [2C]	0.11	0.0043	mg/Kg dry	0.106	ND	100	30-150			
4,4'-DDE	0.11	0.0043	mg/Kg dry	0.106	ND	100	30-150			
4,4'-DDE [2C]	0.11	0.0043	mg/Kg dry	0.106	ND	102	30-150			
4,4'-DDT	0.11	0.0043	mg/Kg dry	0.106	ND	104	30-150			
4,4'-DDT [2C]	0.11	0.0043	mg/Kg dry	0.106	ND	102	30-150			
Dieldrin	0.10	0.0043	mg/Kg dry	0.106	ND	94.1	30-150			
Dieldrin [2C]	0.10	0.0043	mg/Kg dry	0.106	ND	96.0	30-150			
Endosulfan I	0.095	0.0053	mg/Kg dry	0.106	ND	88.8	30-150			
Endosulfan I [2C]	0.10	0.0053	mg/Kg dry	0.106	ND	96.6	30-150			
Endosulfan II	0.10	0.0085	mg/Kg dry	0.106	ND	96.6	30-150			
Endosulfan II [2C]	0.11	0.0085	mg/Kg dry	0.106	ND	102	30-150			
Endosulfan Sulfate	0.10	0.0085	mg/Kg dry	0.106	ND	94.0	30-150			
Endosulfan Sulfate [2C]	0.10	0.0085	mg/Kg dry	0.106	ND	97.8	30-150			
Endrin	0.10	0.0085	mg/Kg dry	0.106	ND	98.0	30-150			
Endrin [2C]	0.11	0.0085	mg/Kg dry	0.106	ND	101	30-150			
Endrin Aldehyde	0.089	0.0085	mg/Kg dry	0.106	ND	83.7	30-150			
Endrin Aldehyde [2C]	0.10	0.0085	mg/Kg dry	0.106	ND	94.1	30-150			
Endrin Ketone	0.10	0.0085	mg/Kg dry	0.106	ND	97.3	30-150			
Endrin Ketone [2C]	0.11	0.0085	mg/Kg dry	0.106	ND	100	30-150			
Heptachlor	0.10	0.0053	mg/Kg dry	0.106	ND	95.2	30-150			
Heptachlor [2C]	0.10	0.0053	mg/Kg dry	0.106	ND	96.1	30-150			
Heptachlor Epoxide	0.097	0.0053	mg/Kg dry	0.106	ND	91.1	30-150			
Heptachlor Epoxide [2C]	0.098	0.0053	mg/Kg dry	0.106	ND	92.1	30-150			
Hexachlorobenzene	0.10	0.0064	mg/Kg dry	0.106	ND	95.1	30-150			
Hexachlorobenzene [2C]	0.11	0.0064	mg/Kg dry	0.106	ND	98.9	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256434 - SW-846 3546										
Matrix Spike (B256434-MS1)	**Source: 20D0638-01**			Prepared: 04/16/20 Analyzed: 04/22/20						
Methoxychlor	0.11	0.053	mg/Kg dry	0.106	ND	102	30-150			
Methoxychlor [2C]	0.12	0.053	mg/Kg dry	0.106	ND	110	30-150			
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg dry	0.213		97.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.221*		mg/Kg dry	0.213		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.210*		mg/Kg dry	0.213		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.205*		mg/Kg dry	0.213		96.3	30-150			
Matrix Spike Dup (B256434-MSD1)	**Source: 20D0638-01**			Prepared: 04/16/20 Analyzed: 04/22/20						
Alachlor	0.11	0.021	mg/Kg dry	0.103	ND	108	30-150	4.28	30	
Alachlor [2C]	0.11	0.021	mg/Kg dry	0.103	ND	102	30-150	0.148	30	
Aldrin	0.096	0.0052	mg/Kg dry	0.103	ND	92.4	30-150	8.19	30	
Aldrin [2C]	0.096	0.0052	mg/Kg dry	0.103	ND	92.7	30-150	7.76	30	
alpha-BHC	0.079	0.0052	mg/Kg dry	0.103	ND	76.3	30-150	13.5	30	
alpha-BHC [2C]	0.086	0.0052	mg/Kg dry	0.103	ND	83.3	30-150	13.1	30	
beta-BHC	0.096	0.0052	mg/Kg dry	0.103	ND	92.9	30-150	8.74	30	
beta-BHC [2C]	0.10	0.0052	mg/Kg dry	0.103	ND	96.6	30-150	7.73	30	
delta-BHC	0.085	0.0052	mg/Kg dry	0.103	ND	81.7	30-150	10.0	30	
delta-BHC [2C]	0.085	0.0052	mg/Kg dry	0.103	ND	82.0	30-150	10.1	30	
gamma-BHC (Lindane)	0.088	0.0021	mg/Kg dry	0.103	ND	85.2	30-150	11.7	30	
gamma-BHC (Lindane) [2C]	0.091	0.0021	mg/Kg dry	0.103	ND	88.1	30-150	11.0	30	
4,4'-DDD	0.10	0.0041	mg/Kg dry	0.103	ND	96.9	30-150	5.97	30	
4,4'-DDD [2C]	0.10	0.0041	mg/Kg dry	0.103	ND	97.2	30-150	5.82	30	
4,4'-DDE	0.10	0.0041	mg/Kg dry	0.103	ND	96.3	30-150	6.87	30	
4,4'-DDE [2C]	0.10	0.0041	mg/Kg dry	0.103	ND	98.8	30-150	6.16	30	
4,4'-DDT	0.10	0.0041	mg/Kg dry	0.103	ND	101	30-150	6.49	30	
4,4'-DDT [2C]	0.10	0.0041	mg/Kg dry	0.103	ND	98.4	30-150	6.50	30	
Dieldrin	0.094	0.0041	mg/Kg dry	0.103	ND	90.7	30-150	6.57	30	
Dieldrin [2C]	0.096	0.0041	mg/Kg dry	0.103	ND	92.5	30-150	6.64	30	
Endosulfan I	0.088	0.0052	mg/Kg dry	0.103	ND	85.1	30-150	7.19	30	
Endosulfan I [2C]	0.096	0.0052	mg/Kg dry	0.103	ND	92.9	30-150	6.83	30	
Endosulfan II	0.097	0.0083	mg/Kg dry	0.103	ND	93.5	30-150	6.21	30	
Endosulfan II [2C]	0.10	0.0083	mg/Kg dry	0.103	ND	98.8	30-150	6.22	30	
Endosulfan Sulfate	0.093	0.0083	mg/Kg dry	0.103	ND	89.8	30-150	7.47	30	
Endosulfan Sulfate [2C]	0.097	0.0083	mg/Kg dry	0.103	ND	94.0	30-150	6.91	30	
Endrin	0.097	0.0083	mg/Kg dry	0.103	ND	94.2	30-150	6.80	30	
Endrin [2C]	0.10	0.0083	mg/Kg dry	0.103	ND	97.4	30-150	6.52	30	
Endrin Aldehyde	0.086	0.0083	mg/Kg dry	0.103	ND	83.0	30-150	3.70	30	
Endrin Aldehyde [2C]	0.094	0.0083	mg/Kg dry	0.103	ND	90.9	30-150	6.42	30	
Endrin Ketone	0.097	0.0083	mg/Kg dry	0.103	ND	93.8	30-150	6.55	30	
Endrin Ketone [2C]	0.10	0.0083	mg/Kg dry	0.103	ND	96.5	30-150	6.69	30	
Heptachlor	0.094	0.0052	mg/Kg dry	0.103	ND	90.9	30-150	7.53	30	
Heptachlor [2C]	0.093	0.0052	mg/Kg dry	0.103	ND	90.1	30-150	9.43	30	
Heptachlor Epoxide	0.090	0.0052	mg/Kg dry	0.103	ND	86.7	30-150	7.81	30	
Heptachlor Epoxide [2C]	0.092	0.0052	mg/Kg dry	0.103	ND	88.5	30-150	6.90	30	
Hexachlorobenzene	0.092	0.0062	mg/Kg dry	0.103	ND	88.5	30-150	10.1	30	
Hexachlorobenzene [2C]	0.096	0.0062	mg/Kg dry	0.103	ND	92.6	30-150	9.41	30	
Methoxychlor	0.10	0.052	mg/Kg dry	0.103	ND	98.5	30-150	6.78	30	
Methoxychlor [2C]	0.11	0.052	mg/Kg dry	0.103	ND	107	30-150	5.57	30	
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg dry	0.207		95.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg dry	0.207		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg dry	0.207		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg dry	0.207		87.8	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256267 - SW-846 3540C										
Blank (B256267-BLK1)				Prepared: 04/15/20 Analyzed: 04/17/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
LCS (B256267-BS1)				Prepared: 04/15/20 Analyzed: 04/17/20						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.6	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		87.2	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		97.0	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.1	40-140			
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		96.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
LCS Dup (B256267-BSD1)				Prepared: 04/15/20 Analyzed: 04/17/20						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.3	40-140	0.278	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	1.15	30	
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		99.0	40-140	2.00	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.8	40-140	1.96	30	
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256627 - SW-846 3546										
Blank (B256627-BLK1)				Prepared: 04/21/20 Analyzed: 04/23/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*2.74*		mg/Kg wet	3.33		82.1	50-150			
LCS (B256627-BS1)				Prepared: 04/21/20 Analyzed: 04/23/20						
CT ETPH	26.0	10	mg/Kg wet	33.3		77.9	60-120			
Surrogate: 2-Fluorobiphenyl	*2.31*		mg/Kg wet	3.33		69.3	50-150			
LCS Dup (B256627-BSD1)				Prepared: 04/21/20 Analyzed: 04/23/20						
CT ETPH	25.6	10	mg/Kg wet	33.3		76.9	60-120	1.39	30	
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.6	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256318 - SW-846 7471										
Blank (B256318-BLK1)				Prepared: 04/16/20 Analyzed: 04/20/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B256318-BS1)				Prepared: 04/16/20 Analyzed: 04/20/20						
Mercury	7.71	0.38	mg/Kg wet	7.61		101	72.7-127.3			
LCS Dup (B256318-BSD1)				Prepared: 04/16/20 Analyzed: 04/20/20						
Mercury	8.24	0.38	mg/Kg wet	7.61		108	72.7-127.3	6.55	20	
Duplicate (B256318-DUP1)		**Source: 20D0638-01**		Prepared: 04/16/20 Analyzed: 04/20/20						
Mercury	ND	0.028	mg/Kg dry		ND			NC	20	
Matrix Spike (B256318-MS1)		**Source: 20D0638-01**		Prepared: 04/16/20 Analyzed: 04/20/20						
Mercury	0.372	0.026	mg/Kg dry	0.352	ND	106	80-120			
Batch B256399 - SW-846 3051										
Blank (B256399-BLK1)				Prepared & Analyzed: 04/16/20						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	3.3	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.33	mg/Kg wet							
Chromium	ND	0.67	mg/Kg wet							
Copper	ND	0.67	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.67	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B256399-BS1)				Prepared & Analyzed: 04/16/20						
Antimony	242	5.0	mg/Kg wet	147		165	4.2-196.6			
Arsenic	151	9.9	mg/Kg wet	143		106	83.2-117.5			
Barium	437	5.0	mg/Kg wet	415		105	82.7-117.6			
Beryllium	191	0.50	mg/Kg wet	179		107	83.2-117.3			
Cadmium	54.5	0.99	mg/Kg wet	56.2		97.1	82.9-117.3			
Chromium	105	2.0	mg/Kg wet	101		104	82.4-116.8			
Copper	68.9	2.0	mg/Kg wet	63.1		109	84.2-115.8			
Lead	131	1.5	mg/Kg wet	125		105	82.4-116.8			
Nickel	114	2.0	mg/Kg wet	108		106	82.9-117.6			
Selenium	81.1	9.9	mg/Kg wet	77.9		104	79.3-120.7			
Silver	37.7	0.99	mg/Kg wet	34.3		110	81-119.2			
Thallium	115	5.0	mg/Kg wet	113		101	80.8-118.6			
Vanadium	82.9	2.0	mg/Kg wet	83.7		99.1	79.8-120.7			
Zinc	258	2.0	mg/Kg wet	240		108	80.8-118.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256399 - SW-846 3051										
LCS Dup (B256399-BSD1)				Prepared & Analyzed: 04/16/20						
Antimony	234	5.0	mg/Kg wet	147		159	4.2-196.6	3.12	30	
Arsenic	150	10	mg/Kg wet	143		105	83.2-117.5	0.544	30	
Barium	435	5.0	mg/Kg wet	415		105	82.7-117.6	0.361	20	
Beryllium	195	0.50	mg/Kg wet	179		109	83.2-117.3	2.13	30	
Cadmium	56.3	1.0	mg/Kg wet	56.2		100	82.9-117.3	3.23	20	
Chromium	106	2.0	mg/Kg wet	101		105	82.4-116.8	0.801	30	
Copper	69.1	2.0	mg/Kg wet	63.1		110	84.2-115.8	0.391	30	
Lead	132	1.5	mg/Kg wet	125		105	82.4-116.8	0.221	30	
Nickel	115	2.0	mg/Kg wet	108		107	82.9-117.6	0.946	30	
Selenium	82.0	10	mg/Kg wet	77.9		105	79.3-120.7	1.07	30	
Silver	37.8	1.0	mg/Kg wet	34.3		110	81-119.2	0.343	30	
Thallium	121	5.0	mg/Kg wet	113		107	80.8-118.6	5.26	30	
Vanadium	83.5	2.0	mg/Kg wet	83.7		99.8	79.8-120.7	0.740	30	
Zinc	261	2.0	mg/Kg wet	240		109	80.8-118.8	0.856	30	
Reference (B256399-SRM1)				Prepared & Analyzed: 04/16/20						
Lead	0.568	0.53	mg/Kg wet	0.530		107	80-120			

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BREAKDOWN REPORT

Lab Sample ID:	S047860-PEM1	Analyzed:	04/21/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.75
Endrin [1]	3.18

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.04
Endrin [2]	3.06

BREAKDOWN REPORT

Lab Sample ID:	S047860-PEM2	Analyzed:	04/22/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.00
Endrin [1]	3.77

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.05
Endrin [2]	3.66

BREAKDOWN REPORT

Lab Sample ID:	S047860-PEM3	Analyzed:	04/22/2020

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.90
Endrin [1]	3.68

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BREAKDOWN REPORT

Lab Sample ID:	**S047860-PEM3**	**Analyzed:**	**04/22/2020**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	4.02
Endrin [2]	3.78

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B256267-BS1 Date(s) Analyzed: 04/17/2020 04/17/2020

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B256267-BSD1 Date(s) Analyzed: 04/17/2020 04/17/2020

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.18	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B256434-BS1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.559	7.531	7.591	0.10	
	2	7.496	7.467	7.527	0.10	0.0
4,4'-DDE	1	7.103	7.075	7.135	0.11	
	2	7.059	7.030	7.090	0.11	0.0
4,4'-DDT	1	7.778	7.750	7.810	0.099	
	2	7.741	7.711	7.771	0.096	3.1
Alachlor	1	6.515	6.487	6.547	0.097	
	2	6.217	6.188	6.248	0.091	6.4
Aldrin	1	6.423	6.395	6.455	0.10	
	2	6.290	6.262	6.322	0.10	0.0
alpha-BHC	1	5.669	5.640	5.700	0.086	
	2	5.556	5.527	5.587	0.088	1.1
alpha-Chlordane	1	7.052	7.024	7.084	0.10	
	2	6.933	6.904	6.964	0.10	0.0
beta-BHC	1	5.937	5.908	5.968	0.10	
	2	5.833	5.803	5.863	0.10	0.0
delta-BHC	1	6.061	6.033	6.093	0.087	
	2	6.025	5.996	6.056	0.088	1.1
Dieldrin	1	7.338	7.310	7.370	0.099	
	2	7.176	7.147	7.207	0.10	1.0
Endosulfan I	1	7.158	7.130	7.190	0.095	
	2	6.973	6.944	7.004	0.099	3.1
Endosulfan II	1	7.690	7.662	7.722	0.10	
	2	7.566	7.537	7.597	0.10	0.0
Endosulfan Sulfate	1	8.312	8.284	8.344	0.098	
	2	8.038	8.008	8.068	0.10	2.0
Endrin	1	7.518	7.489	7.549	0.099	
	2	7.404	7.375	7.435	0.10	1.0
Endrin Aldehyde	1	8.011	7.982	8.042	0.092	
	2	7.829	7.799	7.859	0.098	6.3
Endrin Ketone	1	8.492	8.462	8.522	0.10	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B256434-BS1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.393	8.364	8.424	0.11	9.5
gamma-BHC (Lindane)	1	5.881	5.852	5.912	0.092	
	2	5.780	5.751	5.811	0.091	1.1
gamma-Chlordane	1	6.953	6.926	6.986	0.10	
	2	6.826	6.797	6.857	0.11	0.0
Heptachlor	1	6.210	6.181	6.241	0.090	
	2	6.072	6.043	6.103	0.092	2.2
Heptachlor Epoxide	1	6.862	6.834	6.894	0.096	
	2	6.689	6.660	6.720	0.099	3.1
Hexachlorobenzene	1	5.556	5.527	5.587	0.10	
	2	5.470	5.440	5.500	0.10	0.0
Methoxychlor	1	8.136	8.106	8.166	0.093	
	2	8.247	8.217	8.277	0.097	4.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B256434-BS2 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.11	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B256434-BSD1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.561	7.531	7.591	0.11	
	2	7.496	7.467	7.527	0.11	0.0
4,4'-DDE	1	7.104	7.075	7.135	0.12	
	2	7.059	7.030	7.090	0.11	8.7
4,4'-DDT	1	7.779	7.750	7.810	0.11	
	2	7.741	7.711	7.771	0.10	9.5
Alachlor	1	6.516	6.487	6.547	0.10	
	2	6.216	6.188	6.248	0.097	3.1
Aldrin	1	6.425	6.395	6.455	0.11	
	2	6.291	6.262	6.322	0.11	0.0
alpha-BHC	1	5.669	5.640	5.700	0.11	
	2	5.557	5.527	5.587	0.11	0.0
alpha-Chlordane	1	7.053	7.024	7.084	0.11	
	2	6.932	6.904	6.964	0.11	0.0
beta-BHC	1	5.938	5.908	5.968	0.11	
	2	5.832	5.803	5.863	0.11	0.0
delta-BHC	1	6.062	6.033	6.093	0.10	
	2	6.025	5.996	6.056	0.10	0.0
Dieldrin	1	7.339	7.310	7.370	0.10	
	2	7.176	7.147	7.207	0.10	0.0
Endosulfan I	1	7.159	7.130	7.190	0.10	
	2	6.973	6.944	7.004	0.11	9.5
Endosulfan II	1	7.691	7.662	7.722	0.11	
	2	7.566	7.537	7.597	0.11	0.0
Endosulfan Sulfate	1	8.313	8.284	8.344	0.10	
	2	8.037	8.008	8.068	0.11	9.5
Endrin	1	7.519	7.489	7.549	0.11	
	2	7.404	7.375	7.435	0.11	0.0
Endrin Aldehyde	1	8.012	7.982	8.042	0.097	
	2	7.828	7.799	7.859	0.10	3.1
Endrin Ketone	1	8.492	8.462	8.522	0.11	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B256434-BSD1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.392	8.364	8.424	0.11	0.0
gamma-BHC (Lindane)	1	5.882	5.852	5.912	0.11	
	2	5.781	5.751	5.811	0.11	0.0
gamma-Chlordane	1	6.955	6.926	6.986	0.11	
	2	6.826	6.797	6.857	0.11	0.0
Heptachlor	1	6.210	6.181	6.241	0.10	
	2	6.072	6.043	6.103	0.11	9.5
Heptachlor Epoxide	1	6.863	6.834	6.894	0.10	
	2	6.689	6.660	6.720	0.11	9.5
Hexachlorobenzene	1	5.557	5.527	5.587	0.11	
	2	5.471	5.440	5.500	0.11	0.0
Methoxychlor	1	8.136	8.106	8.166	0.098	
	2	8.246	8.217	8.277	0.10	2.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B256434-BSD2 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B256434-MS1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.559	7.529	7.589	0.11	
	2	7.494	7.465	7.525	0.11	0.0
4,4'-DDE	1	7.103	7.073	7.133	0.11	
	2	7.058	7.027	7.087	0.11	0.0
4,4'-DDT	1	7.777	7.747	7.807	0.11	
	2	7.739	7.709	7.769	0.11	0.0
Alachlor	1	6.515	6.485	6.545	0.12	
	2	6.215	6.185	6.245	0.11	8.7
Aldrin	1	6.424	6.394	6.454	0.10	
	2	6.289	6.259	6.319	0.10	0.0
alpha-BHC	1	5.668	5.639	5.699	0.090	
	2	5.555	5.526	5.586	0.098	8.5
beta-BHC	1	5.937	5.907	5.967	0.10	
	2	5.831	5.802	5.862	0.11	0.0
delta-BHC	1	6.061	6.031	6.091	0.093	
	2	6.024	5.994	6.054	0.094	1.1
Dieldrin	1	7.338	7.307	7.367	0.10	
	2	7.175	7.145	7.205	0.10	0.0
Endosulfan I	1	7.158	7.127	7.187	0.095	
	2	6.972	6.942	7.002	0.10	5.1
Endosulfan II	1	7.690	7.660	7.720	0.10	
	2	7.564	7.534	7.594	0.11	9.5
Endosulfan Sulfate	1	8.311	8.281	8.341	0.10	
	2	8.036	8.006	8.066	0.10	0.0
Endrin	1	7.517	7.487	7.547	0.10	
	2	7.402	7.372	7.432	0.11	9.5
Endrin Aldehyde	1	8.011	7.981	8.041	0.089	
	2	7.826	7.797	7.857	0.10	11.6
Endrin Ketone	1	8.491	8.461	8.521	0.10	
	2	8.391	8.360	8.420	0.11	9.5
gamma-BHC (Lindane)	1	5.881	5.851	5.911	0.099	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B256434-MS1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.779	5.749	5.809	0.10	1.0
Heptachlor	1	6.209	6.179	6.239	0.10	
	2	6.070	6.041	6.101	0.10	0.0
Heptachlor Epoxide	1	6.862	6.832	6.892	0.097	
	2	6.688	6.658	6.718	0.098	1.0
Hexachlorobenzene	1	5.556	5.526	5.586	0.10	
	2	5.469	5.439	5.499	0.11	9.5
Methoxychlor	1	8.135	8.105	8.165	0.11	
	2	8.245	8.214	8.274	0.12	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B256434-MSD1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.559	7.529	7.589	0.10	
	2	7.495	7.465	7.525	0.10	0.0
4,4'-DDE	1	7.103	7.073	7.133	0.10	
	2	7.058	7.027	7.087	0.10	0.0
4,4'-DDT	1	7.777	7.747	7.807	0.10	
	2	7.739	7.709	7.769	0.10	0.0
Alachlor	1	6.515	6.485	6.545	0.11	
	2	6.215	6.185	6.245	0.11	0.0
Aldrin	1	6.423	6.394	6.454	0.096	
	2	6.289	6.259	6.319	0.096	0.0
alpha-BHC	1	5.668	5.639	5.699	0.079	
	2	5.555	5.526	5.586	0.086	8.5
beta-BHC	1	5.937	5.907	5.967	0.096	
	2	5.831	5.802	5.862	0.10	4.1
delta-BHC	1	6.061	6.031	6.091	0.085	
	2	6.024	5.994	6.054	0.085	0.0
Dieldrin	1	7.338	7.307	7.367	0.094	
	2	7.174	7.145	7.205	0.096	2.1
Endosulfan I	1	7.158	7.127	7.187	0.088	
	2	6.972	6.942	7.002	0.096	8.7
Endosulfan II	1	7.690	7.660	7.720	0.097	
	2	7.564	7.534	7.594	0.10	3.1
Endosulfan Sulfate	1	8.312	8.281	8.341	0.093	
	2	8.035	8.006	8.066	0.097	4.2
Endrin	1	7.517	7.487	7.547	0.097	
	2	7.402	7.372	7.432	0.10	3.1
Endrin Aldehyde	1	8.011	7.981	8.041	0.086	
	2	7.826	7.797	7.857	0.094	8.9
Endrin Ketone	1	8.491	8.461	8.521	0.097	
	2	8.391	8.360	8.420	0.10	3.1
gamma-BHC (Lindane)	1	5.881	5.851	5.911	0.088	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B256434-MSD1 Date(s) Analyzed: 04/22/2020 04/22/2020

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.779	5.749	5.809	0.091	3.4
Heptachlor	1	6.209	6.179	6.239	0.094	
	2	6.071	6.041	6.101	0.093	1.1
Heptachlor Epoxide	1	6.862	6.832	6.892	0.090	
	2	6.688	6.658	6.718	0.092	2.2
Hexachlorobenzene	1	5.556	5.526	5.586	0.092	
	2	5.469	5.439	5.499	0.096	4.3
Methoxychlor	1	8.135	8.105	8.165	0.10	
	2	8.245	8.214	8.274	0.11	9.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

L-17	Compound classified by CT RCP as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270D-E in Soil	
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270D-E in Water	
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

KAF 20D0638

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page ____1_ of __1___

Company Name:	Strategic Environmental Services, Inc.
Address:	362 Putnam Hill Rd; Sutton, MA 01590
Phone:	508-757-7782
Project Name:	Eversource Berlin
Project Location:	Berlin CT
Project Number:	
Project Manager:	Paul Saccente
Con-Test Quote Name/Number:	
Invoice Recipient:	accountsreceivable@strategic-es.com
Sampled By:	

Requested Turnaround Time:
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush Approval Required:
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery:
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: te@strategic-es.com
Fax To #:

Preselect Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1] Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	CT DEP ETPH	VOC 8260	SVOC 8270	CT RSR 6010 + 7471 Metals	Pesticides 8081	PCBs 8082 Soxhlet	[2] Preservation Code
1	Wapping Sand and Gravel	4/14	4/14	COMP	S		A	X				x	x	x	x	x	x	

Courier Use Only
Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time:
	4/15/20
Received by: (signature)	Date/Time:
	4/15/20 1330
Relinquished by: (signature)	Date/Time:
	4/15/20 1445
Received by: (signature)	Date/Time:
	4/15/20 1445
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: 1) Run TCLP if exceeds 20X Rule 2) See Section 202 Chemical Properties of Soil Materials on attachment for more detail

Detection Limit Requirements:
MA
CT GA Mobility; Residential DEC
Other:

Special Requirements:
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Strategic Environmental Services Inc

Received By GL Date 4/15/2020 Time 1945

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 3.8

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name F

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? F

Are there Lab to Filters? F

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T Who was notified? _____

Is there Headspace where applicable? T MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2
Meoh-	3	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

There are no labels on samples

C:\MSDCHEM\2\DATA\B042320\B0423080.D

CT ETPH Discrimination Check

Data File Name B0423080.D
Data File Path C:\MSDCHEM\2\DATA\B042320\
Operator RDD
Date Acquired 4/23/1920 19:32
Acq. Method File EPH04.M
Sample Name ETPH 1500
Instrument Name GCFID2

Name	Ret Time	Target Response	Average Response	*%D+/-20
n-Nonane	1.18	8765921	9655436	9
n-Decane	1.95	8986312	9655436	7
n-Dodecane	2.97	9069427	9655436	6
n-Tetradecane	3.70	9182954	9655436	5
n-Hexadecane	4.31	9268012	9655436	4
n-Octadecane	4.85	9546590	9655436	1
n-Eicosane	5.38	9620108	9655436	0
n-Docosane	6.04	9736475	9655436	-1
n-Tetracosane	6.83	9884619	9655436	-2
n-Hexacosane	7.64	9946087	9655436	-3
n-Octacosane	8.39	10110684	9655436	-5
n-Triacontane	9.07	10192904	9655436	-6
n-Dotriacontane	9.71	10144924	9655436	-5
n-Tetratriacontane	10.31	10259447	9655436	-6
n-Hexatriacontane	10.87	10117074	9655436	-5

Samples

20D0638-01
20D0736-02
20D0736-03
20D0736-04@5X
20D0736-01@100X
20D0872-11@10X

*One compound allowed %D</=50

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Strategic Environmental Services

Project Location: Berlin, CT

Project Number: 20D0638

Laboratory Sample ID(s):

20D0638-01

Sample Date(s):

04/14/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 6010D, SW-846 7471B, SW-846 8081B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

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.

Lisa A. Worthington

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: Lisa Worthington **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **04/24/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

LIQUID AND PLASTIC LIMIT TEST DATA

4/8/2020

Client: : Wapping Sand & Gravel
Project: : Wapping Sand & Gravel
Location: Onsite Quarry
Depth: N/QA
Material Description: Reddish brown sand
%<#40: N/A **%<#200:** N/A
Tested by: IC
Testing Remarks: ASTM D 4318

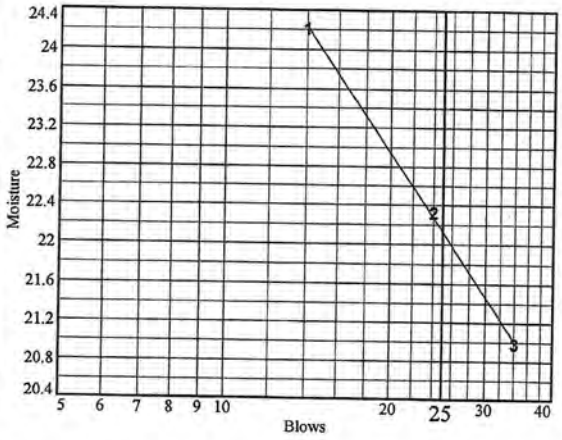
Date: 04/08/2020

Date: 04/08/2020
Sample Number: 188-20

USCS: N/A **AASHTO:** N/A
Checked by: HC

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	43.1	41.7	42.5			
Dry+Tare	37.7	36.9	37.8			
Tare	15.4	15.4	15.4			
# Blows	14	24	34			
Moisture	24.2	22.3	21.0			



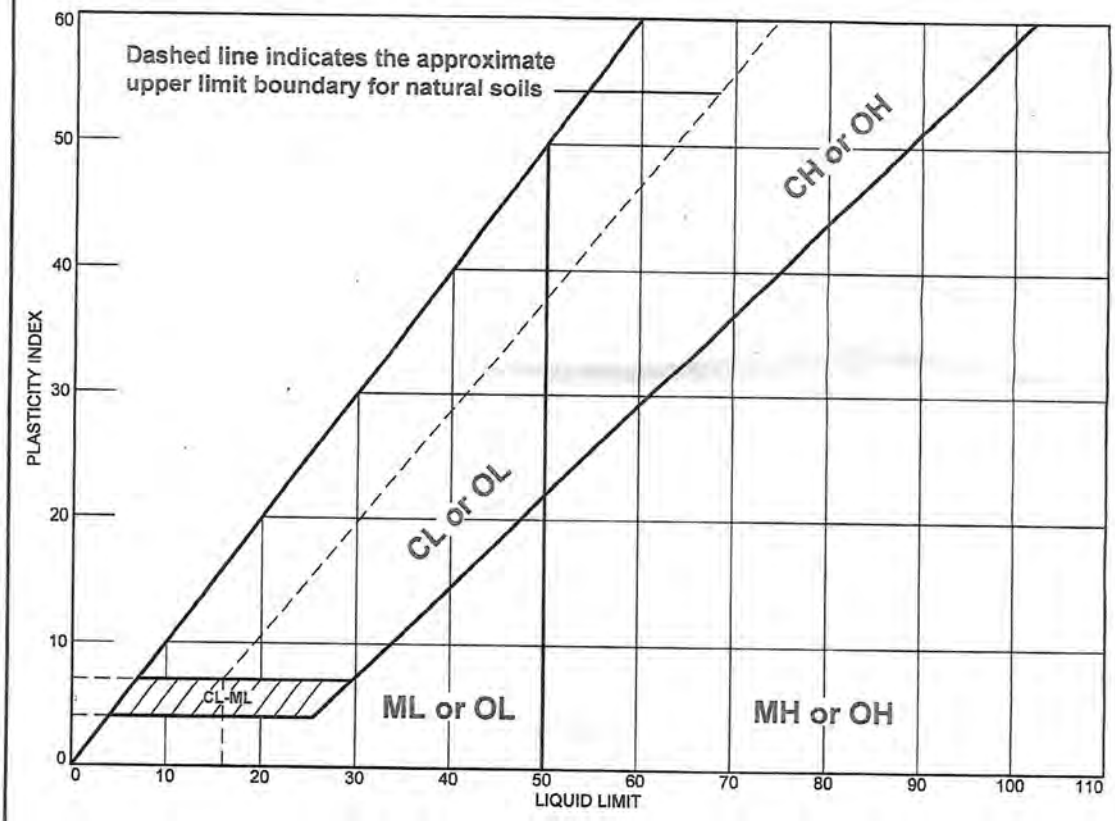
Liquid Limit= 22
Plastic Limit= NP
Plasticity Index= NP

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare					
Dry+Tare					
Tare					
Moisture					

Tri State Materials Testing Lab

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Reddish brown sand	22	NP	NP	N/A	N/A	N/A

Project No. **Client:** : Wapping Sand & Gravel **Date:**

Project: : Wapping Sand & Gravel

● **Source:** Onsite Quarry Date: 04/08/2020

Remarks:
● ASTM D 4318

Tri State Materials Testing Lab

Wallingford, Connecticut

Figure

Tested By: IC **Checked By:** HC

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91492

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Arsenic	2.16	0.65	mg/Kg	1	10/07/20	CPP	SW6010D
Barium	49.2	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Beryllium	0.39	0.26	mg/Kg	1	10/07/20	CPP	SW6010D
Cadmium	0.42	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Chromium	15.0	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Copper	21.5	0.6	mg/kg	1	10/07/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/07/20	RS	SW7471B
Nickel	12.7	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Lead	5.02	0.32	mg/Kg	1	10/07/20	EK	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	10/07/20	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	10/07/20	CPP	SW6010D
Thallium	< 2.9	2.9	mg/Kg	1	10/07/20	CPP	SW6010D
Vanadium	25.2	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Zinc	26.6	0.6	mg/Kg	1	10/07/20	EK	SW6010D
Percent Solid	99		%		10/06/20	CAJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/07/20	L/M	SW3545A
Mercury Digestion	Completed				10/07/20	ARW/VT	SW7471B
Extraction of CT ETPH	Completed				10/06/20	G/AT	SW3546
Soil Extraction for SVOA	Completed				10/06/20	K/M	SW3546
Extraction for PCB	Completed				10/06/20	HH/JJ/KL	SW3540C
Total Metals Digest	Completed				10/06/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	50	mg/Kg	1	10/07/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/07/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	10/07/20	JRB	50 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-03
Phoenix I.D.: CG91492

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1221	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1232	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1242	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1248	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1254	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1260	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1262	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1268	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	82		%	10	10/07/20	SC	30 - 150 %
% DCBP (Confirmation)	85		%	10	10/07/20	SC	30 - 150 %
% TCMX	78		%	10	10/07/20	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	10/07/20	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDE	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDT	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
a-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Alachlor	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
b-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
d-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan I	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan II	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan sulfate	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin aldehyde	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin ketone	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor epoxide	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/08/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	91		%	2	10/08/20	CG	30 - 150 %
% DCBP (Confirmation)	81		%	2	10/08/20	CG	30 - 150 %
% TCMX	68		%	2	10/08/20	CG	30 - 150 %
% TCMX (Confirmation)	67		%	2	10/08/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.8	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-03

Phoenix I.D.: CG91492

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
2-Hexanone	ND	15	ug/Kg	1	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	15	ug/Kg	1	10/07/20	JLI	SW8260C
Acetone	ND	150	ug/Kg	1	10/07/20	JLI	SW8260C
Acrylonitrile	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Benzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromobenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromochloromethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromoform	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromomethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chlorobenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroform	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chloromethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	1.8	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromomethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Ethylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
m&p-Xylene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	18	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	5.9	ug/Kg	1	10/07/20	JLI	SW8260C
Methylene chloride	ND	5.9	ug/Kg	1	10/07/20	JLI	SW8260C
Naphthalene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-03

Phoenix I.D.: CG91492

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
o-Xylene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Styrene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	5.9	ug/Kg	1	10/07/20	JLI	SW8260C
Toluene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Total Xylenes	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	5.9	ug/Kg	1	10/07/20	JLI	SW8260C
Trichloroethene	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.9	ug/Kg	1	10/07/20	JLI	SW8260C
Vinyl chloride	ND	2.9	ug/Kg	1	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	10/07/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	10/07/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrophenol	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitroaniline	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
3-Nitroaniline	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-03

Phoenix I.D.: CG91492

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitroaniline	ND	540	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Acetophenone	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Aniline	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
Anthracene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Benzidine	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Benzoic acid	ND	670	ug/Kg	1	10/07/20	AW	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Carbazole	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
Chrysene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Dibenzofuran	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-butylphthalate	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Fluoranthene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Fluorene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Isophorone	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Naphthalene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Nitrobenzene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodimethylamine	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
Pentachloronitrobenzene	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
Pentachlorophenol	ND	340	ug/Kg	1	10/07/20	AW	SW8270D
Phenanthrene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Phenol	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Pyrene	ND	240	ug/Kg	1	10/07/20	AW	SW8270D
Pyridine	ND	340	ug/Kg	1	10/07/20	AW	SW8270D

QA/QC Surrogates

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-03

Phoenix I.D.: CG91492

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	76		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorophenol	65		%	1	10/07/20	AW	30 - 130 %
% Nitrobenzene-d5	70		%	1	10/07/20	AW	30 - 130 %
% Phenol-d5	73		%	1	10/07/20	AW	30 - 130 %
% Terphenyl-d14	83		%	1	10/07/20	AW	30 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
October 08, 2020
Official Report Release To Follow

PHOENIX

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91493

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	10/07/20	CPP	SW6010D
Arsenic	2.50	0.66	mg/Kg	1	10/07/20	CPP	SW6010D
Barium	51.0	0.33	mg/Kg	1	10/07/20	CPP	SW6010D
Beryllium	0.39	0.27	mg/Kg	1	10/07/20	CPP	SW6010D
Cadmium	0.39	0.33	mg/Kg	1	10/07/20	CPP	SW6010D
Chromium	13.5	0.33	mg/Kg	1	10/07/20	CPP	SW6010D
Copper	14.3	0.7	mg/kg	1	10/07/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/07/20	RS	SW7471B
Nickel	11.2	0.33	mg/Kg	1	10/07/20	CPP	SW6010D
Lead	5.00	0.33	mg/Kg	1	10/07/20	EK	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	10/07/20	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	10/07/20	CPP	SW6010D
Thallium	< 3.0	3.0	mg/Kg	1	10/07/20	CPP	SW6010D
Vanadium	23.6	0.33	mg/Kg	1	10/07/20	CPP	SW6010D
Zinc	25.4	0.7	mg/Kg	1	10/07/20	EK	SW6010D
Percent Solid	99		%		10/06/20	CAJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/07/20	L/M	SW3545A
Mercury Digestion	Completed				10/07/20	ARW/VT	SW7471B
Extraction of CT ETPH	Completed				10/06/20	G/AT	SW3546
Soil Extraction for SVOA	Completed				10/06/20	K/M	SW3546
Extraction for PCB	Completed				10/06/20	HH/JJ/KL	SW3540C
Total Metals Digest	Completed				10/06/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	50	mg/Kg	1	10/07/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/07/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	10/07/20	JRB	50 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-04
Phoenix I.D.: CG91493

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1260	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	90		%	10	10/07/20	SC	30 - 150 %
% DCBP (Confirmation)	92		%	10	10/07/20	SC	30 - 150 %
% TCMX	79		%	10	10/07/20	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	10/07/20	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDE	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDT	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
a-BHC	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Alachlor	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
b-BHC	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
d-BHC	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan I	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan II	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan sulfate	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endrin	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endrin aldehyde	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endrin ketone	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor epoxide	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/08/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	64		%	2	10/08/20	CG	30 - 150 %
% DCBP (Confirmation)	74		%	2	10/08/20	CG	30 - 150 %
% TCMX	50		%	2	10/08/20	CG	30 - 150 %
% TCMX (Confirmation)	61		%	2	10/08/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-04

Phoenix I.D.: CG91493

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	10/07/20	JLI	SW8260C
Acrylonitrile	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Benzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromochloromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromoform	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroform	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Naphthalene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-04

Phoenix I.D.: CG91493

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Styrene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Toluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Total Xylenes	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	10/07/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	10/07/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
1,3-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,4-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dimethylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,6-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chloronaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylnaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-04

Phoenix I.D.: CG91493

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitroaniline	ND	520	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acetophenone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Aniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benz(a)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(a)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(ghi)perylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(k)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzoic acid	ND	660	ug/Kg	1	10/07/20	AW	SW8270D
Benzyl butyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Carbazole	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Chrysene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenzofuran	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Diethyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dimethylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-butylphthalate	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-octylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluorene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobutadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachloroethane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Isophorone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Naphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Nitrobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodimethylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachloronitrobenzene	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachlorophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Phenanthrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Phenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyridine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D

QA/QC Surrogates

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-04

Phoenix I.D.: CG91493

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	75		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorophenol	72		%	1	10/07/20	AW	30 - 130 %
% Nitrobenzene-d5	76		%	1	10/07/20	AW	30 - 130 %
% Phenol-d5	79		%	1	10/07/20	AW	30 - 130 %
% Terphenyl-d14	80		%	1	10/07/20	AW	30 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

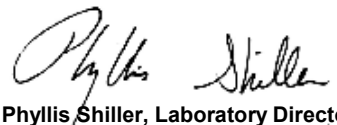
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
October 08, 2020
Official Report Release To Follow

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91494

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Arsenic	2.02	0.64	mg/Kg	1	10/07/20	CPP	SW6010D
Barium	48.5	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Beryllium	0.39	0.26	mg/Kg	1	10/07/20	CPP	SW6010D
Cadmium	0.39	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Chromium	13.1	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Copper	11.4	0.6	mg/kg	1	10/07/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/07/20	RS	SW7471B
Nickel	11.1	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Lead	4.83	0.32	mg/Kg	1	10/07/20	EK	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	10/07/20	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	10/07/20	CPP	SW6010D
Thallium	< 2.9	2.9	mg/Kg	1	10/07/20	CPP	SW6010D
Vanadium	23.5	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Zinc	25.9	0.6	mg/Kg	1	10/07/20	EK	SW6010D
Percent Solid	99		%		10/06/20	CAJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/07/20	L/M	SW3545A
Mercury Digestion	Completed				10/07/20	ARW/VT	SW7471B
Extraction of CT ETPH	Completed				10/06/20	G/AT	SW3546
Soil Extraction for SVOA	Completed				10/06/20	K/M	SW3546
Extraction for PCB	Completed				10/06/20	HH/JJ/KL	SW3540C
Total Metals Digest	Completed				10/06/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	50	mg/Kg	1	10/07/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/07/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	10/07/20	JRB	50 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-05

Phoenix I.D.: CG91494

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1221	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1232	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1242	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1248	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1254	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1260	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1262	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1268	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	77		%	10	10/07/20	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	10/07/20	SC	30 - 150 %
% TCMX	48		%	10	10/07/20	SC	30 - 150 %
% TCMX (Confirmation)	48		%	10	10/07/20	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDE	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDT	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
a-BHC	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Alachlor	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
b-BHC	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
d-BHC	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan I	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan II	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan sulfate	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Endrin	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Endrin aldehyde	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Endrin ketone	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor epoxide	ND	6.7	ug/Kg	2	10/08/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/08/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	77		%	2	10/08/20	CG	30 - 150 %
% DCBP (Confirmation)	75		%	2	10/08/20	CG	30 - 150 %
% TCMX	72		%	2	10/08/20	CG	30 - 150 %
% TCMX (Confirmation)	76		%	2	10/08/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-05

Phoenix I.D.: CG91494

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	10/07/20	JLI	SW8260C
Acrylonitrile	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Benzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromobenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromochloromethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromoform	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Bromomethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chlorobenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroform	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Chloromethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromomethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Ethylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
m&p-Xylene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Methylene chloride	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Naphthalene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-05

Phoenix I.D.: CG91494

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
o-Xylene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Styrene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Toluene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Total Xylenes	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Trichloroethene	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Vinyl chloride	ND	4.9	ug/Kg	1	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	10/07/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	10/07/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
1,3-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,4-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dimethylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,6-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chloronaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylnaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-05

Phoenix I.D.: CG91494

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitroaniline	ND	530	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acetophenone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Aniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benz(a)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(a)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(ghi)perylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(k)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzoic acid	ND	660	ug/Kg	1	10/07/20	AW	SW8270D
Benzyl butyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Carbazole	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Chrysene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenzofuran	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Diethyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dimethylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-butylphthalate	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-octylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluorene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobutadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachloroethane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Isophorone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Naphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Nitrobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodimethylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachloronitrobenzene	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachlorophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Phenanthrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Phenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyridine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D

QA/QC Surrogates

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-05

Phoenix I.D.: CG91494

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	77		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorophenol	61		%	1	10/07/20	AW	30 - 130 %
% Nitrobenzene-d5	64		%	1	10/07/20	AW	30 - 130 %
% Phenol-d5	69		%	1	10/07/20	AW	30 - 130 %
% Terphenyl-d14	79		%	1	10/07/20	AW	30 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
October 08, 2020
Official Report Release To Follow

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91495

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	10/07/20	CPP	SW6010D
Arsenic	3.38	0.68	mg/Kg	1	10/07/20	CPP	SW6010D
Barium	80.4	0.34	mg/Kg	1	10/07/20	CPP	SW6010D
Beryllium	0.54	0.27	mg/Kg	1	10/07/20	CPP	SW6010D
Cadmium	0.53	0.34	mg/Kg	1	10/07/20	CPP	SW6010D
Chromium	22.8	0.34	mg/Kg	1	10/07/20	CPP	SW6010D
Copper	17.0	0.7	mg/kg	1	10/07/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/07/20	RS	SW7471B
Nickel	13.1	0.34	mg/Kg	1	10/07/20	CPP	SW6010D
Lead	6.48	0.34	mg/Kg	1	10/07/20	EK	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	10/07/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	10/07/20	CPP	SW6010D
Thallium	< 3.1	3.1	mg/Kg	1	10/07/20	CPP	SW6010D
Vanadium	31.9	0.34	mg/Kg	1	10/07/20	CPP	SW6010D
Zinc	33.0	0.7	mg/Kg	1	10/07/20	EK	SW6010D
Percent Solid	99		%		10/06/20	CAJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/07/20	L/M	SW3545A
Mercury Digestion	Completed				10/07/20	ARW/VT	SW7471B
Extraction of CT ETPH	Completed				10/06/20	G/AT	SW3546
Soil Extraction for SVOA	Completed				10/07/20	R/M	SW3546
Extraction for PCB	Completed				10/06/20	HH/JJ/KL	SW3540C
Total Metals Digest	Completed				10/06/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	50	mg/Kg	1	10/07/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/07/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	94		%	1	10/07/20	JRB	50 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-06
Phoenix I.D.: CG91495

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1260	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	91		%	10	10/07/20	SC	30 - 150 %
% DCBP (Confirmation)	94		%	10	10/07/20	SC	30 - 150 %
% TCMX	85		%	10	10/07/20	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	10/07/20	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDE	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDT	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
a-BHC	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Alachlor	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
b-BHC	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
d-BHC	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan I	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan II	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan sulfate	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endrin	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endrin aldehyde	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Endrin ketone	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor epoxide	ND	6.5	ug/Kg	2	10/08/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/08/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	80		%	2	10/08/20	CG	30 - 150 %
% DCBP (Confirmation)	90		%	2	10/08/20	CG	30 - 150 %
% TCMX	67		%	2	10/08/20	CG	30 - 150 %
% TCMX (Confirmation)	70		%	2	10/08/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-06

Phoenix I.D.: CG91495

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
2-Hexanone	ND	23	ug/Kg	1	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	10/07/20	JLI	SW8260C
Acetone	ND	230	ug/Kg	1	10/07/20	JLI	SW8260C
Acrylonitrile	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Benzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Bromobenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Bromochloromethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Bromoform	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Bromomethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Chlorobenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroform	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Chloromethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromomethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Ethylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
m&p-Xylene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	ug/Kg	1	10/07/20	JLI	SW8260C
Methylene chloride	ND	9.4	ug/Kg	1	10/07/20	JLI	SW8260C
Naphthalene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-06

Phoenix I.D.: CG91495

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
o-Xylene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Styrene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.4	ug/Kg	1	10/07/20	JLI	SW8260C
Toluene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Total Xylenes	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.4	ug/Kg	1	10/07/20	JLI	SW8260C
Trichloroethene	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.4	ug/Kg	1	10/07/20	JLI	SW8260C
Vinyl chloride	ND	4.7	ug/Kg	1	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	10/07/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	10/07/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
1,2-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
1,3-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
1,4-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2,4-Dichlorophenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2,4-Dimethylphenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2,4-Dinitrophenol	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
2,4-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2,6-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2-Chloronaphthalene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2-Chlorophenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2-Methylnaphthalene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
2-Nitroaniline	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
2-Nitrophenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
3-Nitroaniline	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-06

Phoenix I.D.: CG91495

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
4-Nitroaniline	ND	530	ug/Kg	1	10/07/20	WB	SW8270D
4-Nitrophenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Acenaphthene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Acenaphthylene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Acetophenone	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Aniline	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
Anthracene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Benz(a)anthracene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Benzidine	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Benzo(a)pyrene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Benzo(ghi)perylene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Benzo(k)fluoranthene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Benzoic acid	ND	660	ug/Kg	1	10/07/20	WB	SW8270D
Benzyl butyl phthalate	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Carbazole	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
Chrysene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Dibenzofuran	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Diethyl phthalate	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Dimethylphthalate	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Di-n-butylphthalate	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
Di-n-octylphthalate	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Fluoranthene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Fluorene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Hexachlorobenzene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Hexachlorobutadiene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Hexachloroethane	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Isophorone	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Naphthalene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Nitrobenzene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
N-Nitrosodimethylamine	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
Pentachloronitrobenzene	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
Pentachlorophenol	ND	330	ug/Kg	1	10/07/20	WB	SW8270D
Phenanthrene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Phenol	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Pyrene	ND	230	ug/Kg	1	10/07/20	WB	SW8270D
Pyridine	ND	330	ug/Kg	1	10/07/20	WB	SW8270D

QA/QC Surrogates

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-06

Phoenix I.D.: CG91495

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	91		%	1	10/07/20	WB	30 - 130 %
% 2-Fluorobiphenyl	81		%	1	10/07/20	WB	30 - 130 %
% 2-Fluorophenol	65		%	1	10/07/20	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	10/07/20	WB	30 - 130 %
% Phenol-d5	68		%	1	10/07/20	WB	30 - 130 %
% Terphenyl-d14	80		%	1	10/07/20	WB	30 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
October 08, 2020
Official Report Release To Follow

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91496

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Arsenic	2.41	0.63	mg/Kg	1	10/07/20	CPP	SW6010D
Barium	62.3	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Beryllium	0.53	0.25	mg/Kg	1	10/07/20	CPP	SW6010D
Cadmium	0.52	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Chromium	18.0	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Copper	36.1	0.6	mg/kg	1	10/07/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/07/20	RS	SW7471B
Nickel	17.1	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Lead	7.18	0.32	mg/Kg	1	10/07/20	EK	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	10/07/20	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	10/07/20	CPP	SW6010D
Thallium	< 2.8	2.8	mg/Kg	1	10/07/20	CPP	SW6010D
Vanadium	26.4	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Zinc	41.1	0.6	mg/Kg	1	10/07/20	EK	SW6010D
Percent Solid	100		%		10/06/20	CAJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/07/20	L/M	SW3545A
Mercury Digestion	Completed				10/07/20	ARW/VT	SW7471B
Extraction of CT ETPH	Completed				10/06/20	G/AT	SW3546
Soil Extraction for SVOA	Completed				10/06/20	K/M	SW3546
Extraction for PCB	Completed				10/06/20	HH/JJ/KL	SW3540C
Total Metals Digest	Completed				10/06/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	49	mg/Kg	1	10/07/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/07/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	94		%	1	10/07/20	JRB	50 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-07

Phoenix I.D.: CG91496

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1221	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1232	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1242	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1248	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1254	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1260	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1262	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1268	ND	330	ug/Kg	10	10/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	10/07/20	SC	30 - 150 %
% DCBP (Confirmation)	91		%	10	10/07/20	SC	30 - 150 %
% TCMX	71		%	10	10/07/20	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	10/07/20	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDE	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDT	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
a-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Alachlor	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
b-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
d-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan I	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan II	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan sulfate	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin aldehyde	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin ketone	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor epoxide	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/08/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	61		%	2	10/08/20	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	10/08/20	CG	30 - 150 %
% TCMX	46		%	2	10/08/20	CG	30 - 150 %
% TCMX (Confirmation)	50		%	2	10/08/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-07

Phoenix I.D.: CG91496

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	10/07/20	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Methylene chloride	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-07

Phoenix I.D.: CG91496

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	10/07/20	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	10/07/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	10/07/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
1,3-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,4-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dimethylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,6-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chloronaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylnaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-07

Phoenix I.D.: CG91496

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitroaniline	ND	530	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acetophenone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Aniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benz(a)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(a)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(ghi)perylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(k)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzoic acid	ND	660	ug/Kg	1	10/07/20	AW	SW8270D
Benzyl butyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Carbazole	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Chrysene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenzofuran	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Diethyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dimethylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-butylphthalate	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-octylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluorene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobutadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachloroethane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Isophorone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Naphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Nitrobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodimethylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachloronitrobenzene	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachlorophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Phenanthrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Phenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyridine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D

QA/QC Surrogates

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-07

Phoenix I.D.: CG91496

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	74		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorophenol	66		%	1	10/07/20	AW	30 - 130 %
% Nitrobenzene-d5	69		%	1	10/07/20	AW	30 - 130 %
% Phenol-d5	73		%	1	10/07/20	AW	30 - 130 %
% Terphenyl-d14	79		%	1	10/07/20	AW	30 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

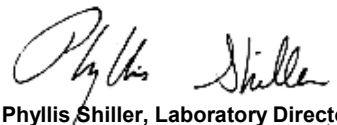
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
October 08, 2020
Official Report Release To Follow

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91497

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Arsenic	2.30	0.65	mg/Kg	1	10/07/20	CPP	SW6010D
Barium	57.3	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Beryllium	0.42	0.26	mg/Kg	1	10/07/20	CPP	SW6010D
Cadmium	0.48	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Chromium	16.7	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Copper	17.0	0.6	mg/kg	1	10/07/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/07/20	RS	SW7471B
Nickel	13.9	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Lead	5.41	0.32	mg/Kg	1	10/07/20	EK	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	10/07/20	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	10/07/20	CPP	SW6010D
Thallium	< 2.9	2.9	mg/Kg	1	10/07/20	CPP	SW6010D
Vanadium	26.0	0.32	mg/Kg	1	10/07/20	CPP	SW6010D
Zinc	32.8	0.6	mg/Kg	1	10/07/20	EK	SW6010D
Percent Solid	99		%		10/06/20	CAJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/07/20	L/M	SW3545A
Mercury Digestion	Completed				10/07/20	ARW/VT	SW7471B
Extraction of CT ETPH	Completed				10/06/20	G/AT	SW3546
Soil Extraction for SVOA	Completed				10/06/20	K/M	SW3546
Extraction for PCB	Completed				10/06/20	HH/JJ/KL	SW3540C
Total Metals Digest	Completed				10/06/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	49	mg/Kg	1	10/07/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/07/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	101		%	1	10/07/20	JRB	50 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-08
Phoenix I.D.: CG91497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1260	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	10/07/20	SC	SW8082A
QA/QC Surrogates							
% DCBP	100		%	10	10/07/20	SC	30 - 150 %
% DCBP (Confirmation)	104		%	10	10/07/20	SC	30 - 150 %
% TCMX	69		%	10	10/07/20	SC	30 - 150 %
% TCMX (Confirmation)	69		%	10	10/07/20	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDE	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDT	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
a-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Alachlor	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
b-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
d-BHC	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan I	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan II	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan sulfate	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin aldehyde	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Endrin ketone	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor epoxide	ND	6.6	ug/Kg	2	10/08/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	10/08/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/08/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	77		%	2	10/08/20	CG	30 - 150 %
% DCBP (Confirmation)	77		%	2	10/08/20	CG	30 - 150 %
% TCMX	60		%	2	10/08/20	CG	30 - 150 %
% TCMX (Confirmation)	64		%	2	10/08/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-08

Phoenix I.D.: CG91497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	10/07/20	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	10/07/20	JLI	SW8260C
Acrylonitrile	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Benzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromochloromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromoform	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroform	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Naphthalene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-08

Phoenix I.D.: CG91497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Styrene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Toluene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Total Xylenes	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	10/07/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	10/07/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
1,3-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
1,4-Dichlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dichlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dimethylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2,4-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2,6-Dinitrotoluene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chloronaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Chlorophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylnaphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
2-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
3-Nitroaniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-08

Phoenix I.D.: CG91497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitroaniline	ND	530	ug/Kg	1	10/07/20	AW	SW8270D
4-Nitrophenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acenaphthylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Acetophenone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Aniline	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benz(a)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzidine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(a)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(ghi)perylene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzo(k)fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Benzoic acid	ND	660	ug/Kg	1	10/07/20	AW	SW8270D
Benzyl butyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Carbazole	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Chrysene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dibenzofuran	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Diethyl phthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Dimethylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-butylphthalate	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Di-n-octylphthalate	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluoranthene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Fluorene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorobutadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Hexachloroethane	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Isophorone	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Naphthalene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Nitrobenzene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodimethylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachloronitrobenzene	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Pentachlorophenol	ND	330	ug/Kg	1	10/07/20	AW	SW8270D
Phenanthrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Phenol	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyrene	ND	230	ug/Kg	1	10/07/20	AW	SW8270D
Pyridine	ND	330	ug/Kg	1	10/07/20	AW	SW8270D

QA/QC Surrogates

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING GRAVEL-08

Phoenix I.D.: CG91497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	66		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	10/07/20	AW	30 - 130 %
% 2-Fluorophenol	61		%	1	10/07/20	AW	30 - 130 %
% Nitrobenzene-d5	64		%	1	10/07/20	AW	30 - 130 %
% Phenol-d5	66		%	1	10/07/20	AW	30 - 130 %
% Terphenyl-d14	79		%	1	10/07/20	AW	30 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
October 08, 2020
Official Report Release To Follow

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91498

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING TOPSOIL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		10/06/20	CAJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/07/20	L/M	SW3545A
Pesticides							
4,4' -DDD	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDE	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
4,4' -DDT	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	10/08/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	10/08/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	10/08/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	10/08/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/08/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	59		%	2	10/08/20	CG	30 - 150 %
% DCBP (Confirmation)	58		%	2	10/08/20	CG	30 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING TOPSOIL

Phoenix I.D.: CG91498

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% TCMX	48		%	2	10/08/20	CG	30 - 150 %
% TCMX (Confirmation)	49		%	2	10/08/20	CG	30 - 150 %

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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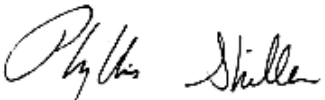

Phyllis Shiller, Laboratory Director
October 08, 2020
Official Report Release To Follow

PHOENIX

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91499

Project ID: EVERSOURCE BERLIN
Client ID: TB HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: TB HL

Phoenix I.D.: CG91499

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Acetone	ND	5000	ug/Kg	50	10/07/20	JLI	SW8260C
Acrylonitrile	ND	500	ug/Kg	50	10/07/20	JLI	SW8260C
Benzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	10/07/20	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	10/07/20	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	10/07/20	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	94		%	50	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	10/07/20	JLI	70 - 130 %

Project ID: EVERSOURCE BERLIN
Client ID: TB HL

Phoenix I.D.: CG91499

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% Toluene-d8 (50x)	99		%	50	10/07/20	JLI	70 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

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

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

If 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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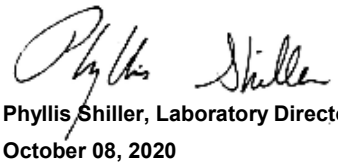


Phyllis Shiller, Laboratory Director
October 08, 2020
Official Report Release To Follow

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

Analysis Report

October 08, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/06/20	
Location Code:	STRATEGIC	Received by:	B	10/06/20	15:40
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCG91492
Phoenix ID: CG91500

Project ID: EVERSOURCE BERLIN
Client ID: TB LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
4-Chlorotoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/07/20	JLI	SW8260C

Project ID: EVERSOURCE BERLIN
Client ID: TB LL

Phoenix I.D.: CG91500

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Acetone	ND	250	ug/Kg	1	10/07/20	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/07/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/07/20	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	10/07/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/07/20	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	10/07/20	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	10/07/20	JLI	70 - 130 %

Project ID: EVERSOURCE BERLIN
Client ID: TB LL

Phoenix I.D.: CG91500

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% Toluene-d8	97		%	1	10/07/20	JLI	70 - 130 %
Field Extraction	Completed				10/06/20		SW5035A

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

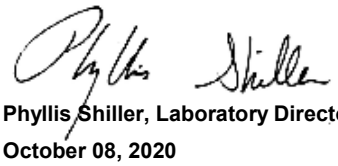
Comments:

TRIP BLANK INCLUDED.

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

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

If 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
October 08, 2020
Official Report Release To Follow

Thursday, October 08, 2020

Criteria: None
State: CT

Sample Criteria Exceedances Report

GCG91492 - STRATEGIC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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.

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 10.2°C Pg 1 of 1

Data Delivery/Contact Options:
□ Fax:
□ Phone: 508-757-7782 ext 202
■ Email: psaccente@strategic-es.com

Customer: Strategic Environmental Services Inc.
Address: 362 Putnam Hill Rd
Sutton, MA 01590

Project: Eversource Berlin
Report to: Paul Saccente
Invoice to: accountspayable@strategic-es.com
QUOTE #

Project P.O: 19-0373

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	CT DEEP ETPH	Voc 8260	CT RSR 15 Metals (6010 &7471)	Pesticides (8081)	PCBs Soxhlet 8082	Total Semi-Volatiles 8270	MS/MSD *	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container [ ] oz	GL Soil container (8) 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
91492	Wapping Gravel-03	S	10/6/2020		x	x	x	x		x		x												
91493	Wapping Gravel-04	S	10/6/2020		x	x	x	x		x		x												
91494	Wapping Gravel-05	S	10/6/2020		x	x	x	x		x		x												
91495	Wapping Gravel-06	S	10/6/2020		x	x	x	x		x		x												
91496	Wapping Gravel-07	S	10/6/2020		x	x	x	x		x		x												
91497	Wapping Gravel-08	S	10/6/2020		x	x	x	x		x		x												
												3		2										
91498	Wapping Topsoil							x						1										
91499	TB HL																							
91500	TB LL																							

Relinquished by:	Accepted by:	Date:	Time:
		10/6	1540

Comments, Special Requirements or Regulations:

*Please run TCLP for any constituents that fail the 20x rule

See Section 202 Chemical properties attachment for more details

*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

Sarah Bell

From: Alisa Seeley <aseeley@strategic-es.com>
Sent: Wednesday, October 07, 2020 7:36 AM
To: Sarah Bell
Subject: RE: Phoenix Labs - GCG91492, EVERSOURCE BERLIN - COC Acknowledgement

Yes thanks! I was told I could get a one day TAT from Rebecca.

Alisa Seeley

Waste Disposal Coordinator – Technical Services Associate
Strategic Environmental Services, Inc.
27 Kreiger Lane – Unit 10
Glastonbury, CT 06033
Office phone: 860-266-2616 ext. 200
Cell: 860-462-3867

Corporate Office:
362 Putnam Hill Road
Sutton, MA 01590
Office: Toll Free: 844-209-9857
Alternate: 508-757-7782
Fax: 508-363-2346

Privileged and confidential. If received in error, please notify me by e-mail and delete the message.
please consider the environment before printing this message

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 98
Page 2160 of 2201

From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Wednesday, October 7, 2020 7:24 AM
To: Alisa Seeley <aseeley@strategic-es.com>
Subject: RE: Phoenix Labs - GCG91492, EVERSOURCE BERLIN - COC Acknowledgement

I tried calling you yesterday
I assume you got what you needed. Checking on the TAT

*Note: I am currently working remotely. You may call me directly at my cell number below or email
Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
(C)860-558-0726
Website: https://link.edgepilot.com/s/a11b7c50/aI2eOxya20aFeSxsNDboNw?u=http://www.phoenixlabs.com/

From: Alisa Seeley [mailto:aseeley@strategic-es.com]
Sent: Wednesday, October 07, 2020 7:13 AM
To: Sarah Bell
Subject: FW: Phoenix Labs - GCG91492, EVERSOURCE BERLIN - COC Acknowledgement
Importance: High

Hello-

Can you please be sure this is done for a one day turn? I forgot to put on the chain.

Thanks

Alisa Seeley

Waste Disposal Coordinator – Technical Services Associate

Strategic Environmental Services, Inc.
27 Kreiger Lane – Unit 10
Glastonbury, CT 06033
Office phone: 860-266-2616 ext. 200
Cell: 860-462-3867

Corporate Office:
362 Putnam Hill Road
Sutton, MA 01590
Office: Toll Free: 844-209-9857
Alternate: 508-757-7782
Fax: 508-363-2346





Privileged and confidential. If received in error, please notify me by e-mail and delete the message.
please consider the environment before printing this message

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Tuesday, October 6, 2020 7:32 PM
To: Alisa Seeley <aseeley@strategic-es.com>
Subject: Phoenix Labs - GCG91492, EVERSOURCE BERLIN - COC Acknowledgement

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#:19-0373

GCG91492 Criteria:
None.

Please email client services only if you require criteria different than what is listed.

Delivery group GCG91492 (EVERSOURCE BERLIN) has been logged in for the following samples:

Phoenix Id	Client Id
CG91492	WAPPING GRAVEL-03
CG91493	WAPPING GRAVEL-04
CG91494	WAPPING GRAVEL-05
CG91495	WAPPING GRAVEL-06
CG91496	WAPPING GRAVEL-07
CG91497	WAPPING GRAVEL-08
CG91498	WAPPING TOPSOIL
CG91499	TB HL
CG91500	TB LL

The samples were received at 10.2C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6�C)

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

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
https://link.edgepilot.com/s/2124558a/c8vsjAjwZ0y5iuaqHhBACQ?u=http://www.phoenixlabs.com/

Please do not reply to this email.
cc'd:psaccente@strategic-es.com;aseeley@strategic-es.com

PHOENIX

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

Analysis Report

October 21, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/20/20	15:00
Location Code:	STRATEGIC	Received by:	B	10/20/20	15:15
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCH00120
Phoenix ID: CH00120

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING TOPSOIL 01B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		10/20/20	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/20/20	L/A	SW3545A
Pesticides							
4,4' -DDD	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
4,4' -DDE	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
4,4' -DDT	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	10/21/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	10/21/20	CG	SW8081B
d-BHC	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	10/21/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/21/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	10/21/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	10/21/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/21/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	49		%	2	10/21/20	CG	30 - 150 %
% DCBP (Confirmation)	51		%	2	10/21/20	CG	30 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING TOPSOIL 01B

Phoenix I.D.: CH00120

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% TCMX	49		%	2	10/21/20	CG	30 - 150 %
% TCMX (Confirmation)	46		%	2	10/21/20	CG	30 - 150 %

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
October 21, 2020
Official Report Release To Follow

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

Analysis Report

October 21, 2020

FOR: Attn: Paul Saccente
Strategic Environmental Services, Inc.
362 Putnam Hill Rd.
Sutton, MA 01590

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/20/20	15:00
Location Code:	STRATEGIC	Received by:	B	10/20/20	15:15
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	19-0373				

Laboratory Data

SDG ID: GCH00120
Phoenix ID: CH00121

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING PREMIUM

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	80		%		10/20/20	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/20/20	L/A	SW3545A
Pesticides							
4,4' -DDD	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
4,4' -DDE	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
4,4' -DDT	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
a-BHC	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Alachlor	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Aldrin	ND	4.1	ug/Kg	2	10/21/20	CG	SW8081B
b-BHC	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Chlordane	ND	41	ug/Kg	2	10/21/20	CG	SW8081B
d-BHC	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	10/21/20	CG	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Endrin	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/21/20	CG	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	10/21/20	CG	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/21/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/21/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	58		%	2	10/21/20	CG	30 - 150 %
% DCBP (Confirmation)	57		%	2	10/21/20	CG	30 - 150 %

Project ID: EVERSOURCE BERLIN
Client ID: WAPPING PREMIUM

Phoenix I.D.: CH00121

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% TCMX	49		%	2	10/21/20	CG	30 - 150 %
% TCMX (Confirmation)	50		%	2	10/21/20	CG	30 - 150 %

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
October 21, 2020
Official Report Release To Follow

Wednesday, October 21, 2020

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCH00120 - STRATEGIC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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.

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 17.1 °C Pg 1 of 1

Data Delivery/Contact Options:
☐ Fax:
☐ Phone: 508-757-7782 ext 202
■ Email: psaccente@strategic-es.com

Customer: Strategic Environmental Services Inc.
Address: 362 Putnam Hill Rd
Sutton, MA 01590

Project: Eversource Berlin
Report to: Paul Saccente
Invoice to: accountspayable@strategic-es.com
QUOTE #

Project P.O: 19-0373

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	Pesticides (8081)	MS/MSD *	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ]methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
00120	Wapping Topsoil 01B	S	10/20	3:00p	x													
00121	Wapping Premium	S	✓	3:00p	x						4							

Relinquished by:	Accepted by:	Date:	Time:
		10/20	3:15pm

Comments, Special Requirements or Regulations:
* 1-8oz Sal jar (MP)

*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

APPENDIX H
SIGNIFICANT ENVIRONMENTAL HAZARD REPORT

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

October 18, 2012

ACKNOWLEDGEMENT

Mr. William J. Hoynack
Manager - Licensing & Permitting
Northeast Utilities Service Company
107 Selden Street
Berlin, CT 06037

RE: Notification of Significant Environmental Hazard
Northeast Utilities - Berlin Campus Settling Basin
107 Selden Street, Berlin

Dear Mr. Hoynack:

This is to acknowledge receipt, on October 1, 2012 of written notification, under the requirements of Connecticut General Statutes (CGS) Section 22a-6u. This notification reported the presence of an environmental hazard in a storm water settling basin located within the property owned by Northeast Utilities Service Company that is known as Northeast Utilities - Berlin Campus, located at 107 Selden Street in Berlin. The notification was filed on your behalf and identified the following significant environmental hazard(s):

> Soil within the uppermost two feet below the ground surface is polluted with PCBs at concentrations of up to 63 milligram per kilogram (mg/kg), exceeding thirty times the applicable direct exposure criteria.

Thank you for notifying the Department of Energy and Environmental Protection (DEEP) of this condition, which you believe is due to unknown sources. It is DEEP's understanding that additional activities have been conducted at this site; specifically, a fence has been installed in the basin area to isolate the impacted soil and signs were posted.

DEEP requests, under CGS Section 22a-6u (k)(2), that you implement the hazard abatement actions that you proposed in Part IV of your notification of this significant environmental hazard; specifically, you proposed to submit a PCB Remediation Work Plan (SIP) to the DEEP PCB Program for review and approval and to remove the impacted soil after obtaining the approval of the SIP.

Within 60 days of receipt of this acknowledgement, please submit a letter report documenting your hazard abatment actions, including any test results, soil remediation actions, and recommendations for further actions or monitoring, to the attention of the staff member identified below.

Please note that this letter pertains solely to the identified significant environmental hazard condition. It establishes neither a basis for determination that your site is "clean" nor a basis for submittal of a "Form II" in the event this property is an establishment subject to CGS Section 22a 134 et seq. The evaluation of a site for conformance to Connecticut's Remediation Standard Regulations is a separate and distinct activity from identification of an environmental hazard condition, although the same data may be used for both as appropriate.

Please be advised that PCBs are subject to the requirements of the federal regulations pursuant to 40 CFR 761 under the Toxic Substances Control Act (TSCA). Specifically, PCB disposal is addressed in the TSCA requirements found at 40 CFR 761 Subpart D, where remediation waste is subject to 761.61 and spills or other uncontrolled releases are unauthorized disposals. In addition, PCBs are subject to Connecticut General Statutes 22a-463 through 469a. PCB contamination is considered to be in a state of improper disposal until the above state and federal requirements have been satisfied. For further information regarding specific obligations that may apply to your site, please contact DEEP's PCB Toxics Program at 860-424-3368.

The PCB Section of DEEP is already aware of this condition, and the information you submitted is being forwarded for their information.

For your information, pursuant to the requirements of CGS Section 22a-6u (m), the DEEP must forward a copy of your written notification to the chief elected official of the municipality in which the site is located, the state senator and the state representative for the site's location, and state and federal Occupational Safety and Health officials. DEEP also sends a copy to the Local Health Director. The DEEP must also add this site to the "List of Significant Environmental Hazards Reported to the DEEP" that is maintained on the DEEP internet site. Also, be advised that CGS Section 22a-6u (l), requires that the Significant Environmental Hazard Notification Report be conspicuously posted at the site not later than five days after the commencement of an activity by any person that increases the likelihood of human exposure to known contaminants.

If you have any questions regarding your obligations specified in this letter, please contact Jing Chen of the DEEP at 860-424-3391.

Sincerely,



Patrick F. Bowe
Director
Remediation Division
Bureau of Water Protection and Land Reuse

PFB: JC:

CERTIFIED MAIL RRR

cc:

Mr. Christopher Soroka, Senior Environmental Specialist, NUSCO, 107 Selden Street, Berlin, CT 06037
Gil Richards, DEEP
Kenneth Feathers, DEEP
Lori Saliby, PCB Program, DEEP

As noted above, under the provisions of CGS Section 22a-6u (m) copies are also provided to the following:
Mr. Paul Hutcheon, Director of Health, Central Connecticut Health District, 505 Silas Deane Hwy, Wethersfield, CT 06109
Mr. Roger Kemp, Town Manager, Town of Berlin, 240 Kensington Road, Berlin, CT 06037
The Honorable Adam P. Salina, Mayor, Town of Berlin, 240 Kensington Road, Berlin, CT 06037
The Honorable Joe Aresimowicz, State Representative, Legislative Office Building, Room 4110, Hartford, CT 06106-1591
The Honorable Terry B. Gerratana, State Senator, Legislative Office Building, Room 3300, Hartford, CT 06106-1591
Connecticut Department of Labor, Division of Occupational Safety & Health, 38 Wolcott Hill Rd, Wethersfield, CT 06109
Mr. Bill Freeman, Area Director, OSHA, 450 Main Street, Room 613, Hartford, CT 06103

Reference Number: D31611 Letter Date:	OUTGOING DOCUMENT SIGN-OFF	OUT

RESPONSE TO COMMITMENT:

This document is being distributed for your review and comments.

If you have any questions, please contact *Christopher A. Soroka* at ext. *: 701-5493*

SUBJECT: Significant Environmental Hazard Notification - Berlin Campus Settling Basin

Facility: Berlin Complex
Agency: CT Department Of Energy and Environmental Protection

A response is due at the Agency by: October 05, 2012

copy	Person	Department	Location	Ext.	Init	Date	Comments
	Christopher A. Soroka	Env Remediation	Berlin, BMN2	701-5493	CAS	9/12/12	Fax: (860) 665-3777
	Charles J. Nicol	Legal	BMN2	701-3431	CJN	9/12/12	Fax: Delete WMECO
	William J. Hoynack	ENV REMEDIATION	Berlin BMN2	701- 3455		9/12/12	Fax: (860) 665-3777

Facility File: BBR

Northeast Utilities

107 Selden Street, Berlin, CT 06037

Northeast Utilities
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-5000
www.nu.com

September 19, 2012

D31611

Significant Environmental Hazard Program
Remediation Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

To Whom It May Concern:

As required by Connecticut General Statutes Section 22a-6u-(d), Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P), herein reports a significant environmental hazard (SEH) at the settling basin (site) located at Northeast Utilities Berlin Campus located at 107 Selden Street in Berlin, Connecticut. The hazard identified is the result of soil impacts that were discovered during the completion of a soil investigation at the site. The specific constituent of concern triggering this reporting requirement is Polychlorinated Biphenyls (PCBs) which were found in excess of their SEH concentrations in soil within the upper two feet of the ground surface. To prevent access to the three sample locations that trigger this notification, fencing was installed along the top of the bank of the entire settling basin and warning signage has been posted at prominent locations along the fencing.

If you have any questions regarding this notification, please contact Mr. Christopher A. Soroka, Senior Environmental Specialist, Northeast Utilities Service Company, at 860-665-5493.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY as Agent for
THE CONNECTICUT LIGHT AND POWER COMPANY

William J. Hoynack
Manager – Licensing and Permitting

Enclosure

Connecticut Department of Energy & Environmental Protection
Bureau of Water Protection & Land Reuse
Remediation Division

Significant Environmental Hazard Notification

Notification under CGS 22a-6u

Please print or type to complete this form in accordance with the instructions (DEEP-REM-SEH-INS-500).

Send completed report to:
SIGNIFICANT ENVIRONMENTAL HAZARD PROGRAM
REMEDIATION DIVISION
BUREAU OF WATER PROTECTION AND LAND REUSE
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Check box if addendum pages used: ☐

DEEP USE ONLY		
RemGIS	RemID	SEH#

*Hazard Condition(s) Identified:

[CGS Section 22a-6u subsection]

☐ Explosion threat [6u-(h)]	*Conditions Threatening Public or Private/Residential Drinking Water Supply Wells:*
☐ Volatile Organic Chemicals in groundwater threaten interior air quality [6u-(e)]	☐ Contamination is detected in supply well and is above groundwater protection criteria [6u-(b)]
☐ Surface water quality threatened by groundwater contamination [6u-(f)]	☐ Contamination is detected in supply well but is below groundwater protection criteria [6u-(c)]
☒ Surface soil contamination poses potential direct exposure risk [6u-(d)]	☐ Groundwater above groundwater protection criteria threatens supply well within 500 ft [6u-(g)]

Part I - Site Information

*1. Site identification for parcel with pollution, on or emanating from the parcel, causing a significant environmental hazard:

Name of Site	Northeast Utilities - Berlin Campus Settling Basin				
Address or Location	107 Selden Street				
City/Town	Berlin	State	CT	Zip Code	06037

2. Attach a copy of a topographic map with the site located thereon. Map Attached ☒

*3. Business/person submitting form: *Is this entity/person the site's owner?* YES ☒ NO ☐

Name	Northeast Utilities Service Company (NUSCO) as agent The Connecticut Light & Power Company (CL&P)				
Mailing Address	107 Selden Street				
City/Town	Berlin	State	CT	Zip Code	06037
Business Phone	860-665-3455	Ext.	----	Fax	860-665-3777
Authorized Rep.	William J. Hoynack	Title	Manager - Licensing & Permitting		
Contact Person	Christopher Soroka	Title	Senior Environmental Specialist		

Part I - Site Information (continued)

3. & 4. Supplemental Information. *If the person submitting this form is not the site owner, describe that person's relationship to the site and its owner and enter the site owner information in #4 (see instructions).*

4. Owner or Additional Party for site (see instructions):

Name	The Rocky River Realty Company				
Mailing Address	P.O. Box 270				
City/Town	Hartford	State	CT	Zip Code	06141-0270
Business Phone	860-665-5493	Ext.	----	Fax	860-665-3777
Contact Person	Christopher Soroka	Title	Senior Environmental Specialist		

5. Operator/Tenant at site, if different from owner:

Name/Firm	Not Applicable.				
Mailing Address					
City/Town		State		Zip Code	
Business Phone		Ext.		Fax	
Contact Person		Title			

6. Technical Environmental Professional (TEP) who identified hazard: CHECK IF NONE ☐

Firm	NUSCO				
Mailing Address	107 Selden Street				
City/Town	Berlin	State	CT	Zip Code	06037
Business Phone	860-665-5493	Ext.	----	Fax	860-665-3777
Contact Person	Christopher Soroka	Title	Senior Environmental Specialist		

7. Environmental consultant for abatement, if not above TEP:

Firm	Weston & Sampson Engineers, Inc.				
Mailing Address	273 Dividend Road				
City/Town	Rocky Hill	State	CT	Zip Code	06067
Business Phone	860-513-1473	Ext.	----	Fax	860-513-1483
Contact Person	Jeffrey Duigou, LEP	Title	Senior Project Manager		

Part II - Hazard Summary

* 1. How was the pollutant released?

☒ unknown	☐ landfill/wastepile	☐ septic system	☐ UST leak
☐ spill/dumping	☐ burial	☐ dry well	☐ drums
☐ agricultural activity	☐ pit	☐ lagoon	☐ discharge

* 2. What is the general nature of the contamination?

☐ petroleum/oils	*Organic Chemicals*		☐ metals	☐ sodium/salt
☐ gasoline	☐ volatile	☐ semivolatile	☐ cyanide	☐ leachate
☐ fuel oil/diesel	☐ nonchlorinated	☐ polyaromatic	☐ acid/base	☐ asbestos
☐ nitrate/fertilizer	☐ chlorinated	☐ pesticide/herbicide	☒ PCB	☐ radiation

* 3. For *environmental sampling (soil or monitoring wells)*, list the analytical data that are the basis for determining that a hazard condition exists. *(See section 7 for supply well data.)*

CHECK IF NO ENVIRONMENTAL SAMPLES COLLECTED ☐

Media (Soil/GW)	Sample Location ID	Pollutant	Concentration	Notes
Soil	B-16	PCB	63 mg/kg	
Soil	B-28	PCB	34 mg/kg	
Soil	B-51	PCB	52 mg/kg	

Note: List only the highest concentration for each medium/pollutant causing the hazard condition(s).
Attach additional sheets as needed.

* 4. Attach a site sketch map indicating the specific location of the contamination or condition and applicable sampling locations. Site Map Attached ☒

5. Was an inventory of drinking water supply wells within 500 feet conducted? YES ☐ NO ☒

6. If so, is this inventory report, including a parcel map of properties within 500 feet that may be served by wells, included? N/A ☒ YES ☐ NO ☐

* 7. Identify affected *or* threatened drinking water supply wells: N/A ☒ UNKNOWN ☐

* For hazard conditions based on supply well samples, list analytical data establishing that the condition exists.

* Address/Town	Contact Name/Phone	No. of people	Supply Well analyses (if any) * Pollutant/Concentration

Note: Refer to Significant Environmental Hazard Report Instructions. Attach additional sheets as needed.

8. Are hydrogeologic data/maps supporting the hazard identification included? YES ☐ NO ☒

Part II Hazard Summary (continued)

*
9. Identify any *other* affected properties: CHECK IF NONE AFFECTED ☒

Address/Town	Contact Name/Phone	How is Property Affected?

Attach additional sheets as needed.

10. Describe the land use of the site and surrounding area, and identify any sensitive land uses within 1/4 mile of the site:

The site is a storm water settling basin located on the southern portion of the Northeast Utilities Berlin Campus. The surrounding area is comprised of a mixture of commercial, residential and undeveloped wooded properties. There are no Aquifer Protection Areas within 1/4 mile of the site. The settling basin discharges to an unnamed stream south of the basin. Three sediment samples were collected from the unnamed stream direclty down stream of settling basin outfall. Low level PCBs were detected in one of the sediment samples at a concentration of 0.23 mg/kg. Designated wetlands abut the settling basin area to the northeast.

11. If due to a recent spill, was spill notification made? NOT A SPILL ☒ YES ☐ NO ☐

Date		DEEP contact	
Remarks			

12. If due to a UST system release, was DEEP notified? NOT A UST RELEASE ☒ YES ☐ NO ☐

Date		DEEP contact	
Remarks			

13. For drinking water supply above criteria and explosion threat hazard conditions only:

Was oral notification to DEEP made? YES ☐ NO ☐			
Date		DEEP contact	
Remarks:			
Was verification to TEP client made? N/A ☐ YES ☐ NO ☐			
Date		Contact	
Remarks:			

14. Additional comments regarding the hazard condition(s):

The data was collected as part of a Remedial Investigation Sampling Plan that was developed to evaluate low level PCB impacts detected in preliminary characterization samples in support of a proposed project to increase the storage capacity of the settling basin. Approximately 364 soil samples were collected from surficial depths to approximately 10 feet below grade. All of the data will be compiled into a Self-Implementing On-Site Cleanup of PCB Remediation Waste Plan that will be submitted to the CTDEEP - PCB Program and EPA's Region 1 PCB Coordinator for review/approval.

Attach additional sheets as needed.

Part III - Past DEP Involvement (OPTIONAL)

1. Voluntary Remediation/ECAF/Property Transfer filings: CHECK IF NONE ☒

Form	Date	Certifying/Verifying/Filing Party	DEEP Determination

2. DEEP staff involved with assessment or remediation of the site: CHECK IF NONE ☐

Time Period	DEEP Section	Name
08/13/2010	PCB Program	Lori Saliby and Gary Trombly

3. Reports to DEEP Emergency Response and Spill Prevention Division: CHECK IF NONE ☒

Date	UST Release or other spill?	Material Released	Quantity
		Spills have been reported for the Berlin Campus property however none of which were associated with PCBs and the settling basin.	

4. Describe other relevant DEEP permitting or enforcement involvement: CHECK IF NONE ☒

EPA ID#: CT	DEEP-WPC #:	DEEP Inventory #:
RCRA Notifier Status:	RCRA Permit Status:	
Remarks:		

5. What environmental reports exist for the site and are available to DEEP? CHECK IF NONE ☐

Report Type	Date (mo/yr)	Preparer (Firm)	Attached? (Y/N)	Previously submitted?	DEEP Unit to which sent
Phase I					

Report Type	Date (mo/yr)	Preparer (Firm)	Attached? (Y/N)	Previously submitted?	DEEP Unit to which sent
Phase 2					
Phase 3					
Remedial Sampling Work Plan	February 2012	Weston & Sampson Engineers, Inc.	N	Yes	PCB Program

Attach additional sheets as needed.

Part IV - Actions to Abate Hazard CHECK IF PLAN OR REPORT ATTACHED ☐

* Describe actions *already taken* to abate the hazard condition: CHECK IF NONE ☐

The settling pond is located on controlled private property. To prevent access to the three sample locations that trigger this notification, fencing was installed along the top of the bank of the entire settling basin and warning signage has been posted at prominent locations along the fencing.

Attach additional sheets as needed.

* Describe actions *to be taken* to abate the hazard condition: CHECK IF NONE ☐

The following are proposed:

<Preparation of a Self Implementing On-Site Cleanup of PCB Remediation Waste Plan (SIP);
<Submission of SIP to CTDEEP - PCB Program and EPA Region 1 for review/approval;
<Once approval of the SIP is received, technical plans and specifications will be prepared for a competitive bid for the approved remedy;
<Implement approved SIP and technical plans/specifications; and
<Restoration of the settling basin.

Attach additional sheets as needed.

* **Part V – Signature of Notifying Party**

"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 (print or type)	William J. Hoynack	Title (if applicable)	Manager - Licensing and Permitting
Signature		Date 9/20/12	

* Signifies information required by CGS Section 22a-6u.

Reference Number: D31808 Letter Date:	OUTGOING DOCUMENT SIGN-OFF	OUT

RESPONSE TO COMMITMENT:

This document is being distributed for your review and comments.

If you have any questions, please contact *Christopher A. Soroka* at ext. *: 701-5493*

SUBJECT: NU Response to CTDEEP Acknowledgement Letter for Significant Hazard Report Notification - Berlin Campus Settling Pond

Facility: Berlin Complex
Agency: CT Department Of Energy and Environmental Protection

A response is due at the Agency by: ~~10~~ 12 / 20 / 2012 CAS

copy	Person	Department	Location	Ext.	Init	Date	Comments
	Christopher A. Soroka	Env Remediation	Berlin, BMN2	701-5493	CAS	12/4/12	Fax: (860) 665-3777
	Charles J. Nicol	Legal	BMN2	701-3431	CJN	12/4/12	Fax:
	DAN WATTOW	ENV. AFFAIRS		REVIEW/COMMENTS VIA EMAIL			

Northeast Utilities

107 Selden Street, Berlin, CT 06037

Northeast Utilities
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-5000
www.nu.com

December 4, 2012

D31808

Ms. Jing Chen
Bureau of Water Protection and Land Reuse – Remediation Division
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Reference: Letter (C14570), P. Bowe to W. Hoynack, dated October 18, 2012.

Dear Ms. Chen:

Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P), provides the following responses to the referenced letter regarding the October 18, 2012 Connecticut Department of Energy and Environmental Protection's Acknowledgment letter for the Significant Environmental Hazard (SEH) Report notification for the Northeast Utilities – Berlin Campus Settling Pond (Site) located at 107 Selden Street in Berlin, Connecticut.

The hazard identified is the result of soil impacts that were discovered during the completion of a soil investigation at the site. The data was collected as part of a Remedial Investigation Sampling Plan that was developed to evaluate low level PCB impacts detected in preliminary characterization samples in support of a proposed project to increase the storage capacity of the settling basin. Approximately 364 soil samples were collected from surficial depths to approximately 10 feet below grade. The specific constituent of concern that triggered the SEH notification requirement was Polychlorinated Biphenyls (PCBs) which were found in excess of their SEH concentrations in soil within the upper two feet of the ground surface. To prevent access to the three sample locations that triggered the notification, fencing was installed along the top of the bank of the entire settling basin and warning signage has been posted at prominent locations along the fencing.

The following summarizes the tentative schedule for future proposed activities:

- **December 2012**: Evaluate site data and prepare a preliminary Risk Based Cleanup Plan (RBCP) in accordance with 40 CFR 761.61(c);
- **Mid-January 2013**: Meet with Kim Tisa from Region 1 of the United States Environmental Protection Agency (Region 1 – USEPA) to discuss the RBCP developed to gain acceptance before the formal submittal of the RBCP;
- **February 2013:** Submission of formal RBCP to Region 1 – USEPA and CTDEEP for review/approval;

- **TBD:** Development of remediation technical plans and specifications for the approved remedy for bidding purposes. This milestone will be dependent on when approvals from Region 1 – USEPA and CTDEEP are received;
- **TBD:** Following the approval of the RBCP by Region 1 – USEPA and CTDEEP, competitive bids will be prepared for consulting services and remediation contractor services; and
- **TBD:** Implementation of the approved RBCP.

If you have any questions, please contact the undersigned at (860) 665-5493.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY as Agent for
THE CONNECTICUT LIGHT AND POWER COMPANY



Christopher A. Soroka, Senior Environmental Specialist for
Daniel Watton, Manager – Environmental Cost, Risk and Site Management

Enclosure

cc: C. Nicol (NU)
S. Madhusudhan (NU)
T. McDermott (NU)
L. Saliby (CTDEEP)
G. Trombly (CTDEEP)

Northeast Utilities

107 Selden Street, Berlin, CT 06037

Northeast Utilities
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-5000
www.nu.com

July 2, 2014

Ms. Jing Chen
Bureau of Water Protection and Land Reuse – Remediation Division
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Reference: **Update – Significant Environmental Hazard Notification**
Northeast Utilities Berlin Campus Settling Pond

Dear Ms. Chen:

Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P), provides the following update to the above-referenced site regarding the October 18, 2012 Connecticut Department of Energy and Environmental Protection's Acknowledgment letter for the Significant Environmental Hazard (SEH) Report notification for the Northeast Utilities – Berlin Campus Settling Pond (Site) located at 107 Selden Street in Berlin, Connecticut.

Based upon recent data collected in April 2014, additional sample locations exhibit concentrations of Polychlorinated Biphenyls (PCBs) in excess of their SEH concentrations in soil within the upper two feet of the ground surface. As an interim measure to prevent unauthorized access to these areas, temporary snow fencing with warning signage was installed and interconnected with the existing chain link fencing.

NUSCO is in the process of coordinating the replacement of the temporary snow fencing with permanent chain link fencing and additional site investigation activities to further delineate the lateral/vertical extents of soil impacts. New warning signage has been prepared and will be posted at prominent locations along the fencing. Local permitting and coordination with the Town of Berlin Wetlands Department may be required based upon the above referenced site activities being located within a 50-foot wetland buffer area.

The schedule provided in the December 4, 2012 dated NUSCO response letter to the CTDEEP is no longer accurate. A revised schedule will be provided after investigative work is complete.

If you have any questions, please contact the undersigned at (860) 665-5493.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY as Agent for
THE CONNECTICUT LIGHT AND POWER COMPANY

Christopher A. Soroka, Senior Environmental Specialist for
Daniel Watton, Manager – Environmental Cost, Risk and Site Management

Enclosure

cc: C. Nicol (NU)
S. Madhusudhan (NU)
T. McDermott (NU)
L. Saliby (CTDEEP)
G. Trombly (CTDEEP)

Northeast Utilities

Northeast Utilities Service Company

107 Selden Street
Berlin, CT 06037
Office: 860.665.5493
christopher.soroka@nu.com

Christopher A. Soroka
Senior Environmental Specialist
Cost, Risk and Site Management

September 11, 2014

Ms. Jing Chen
Bureau of Water Protection and Land Reuse – Remediation Division
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Reference: **Update – Significant Environmental Hazard Notification**
Northeast Utilities – Berlin Campus Settling Pond
Berlin, Connecticut

Dear Ms. Chen:

Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P), provides the following update to the above-referenced site regarding the July 2, 2014 update letter provided to the Connecticut Department of Energy and Environmental Protection's (CTDEEP) regarding the Significant Environmental Hazard (SEH) Notification submitted for the Northeast Utilities – Berlin Campus Settling Pond (Site) located at 107 Selden Street in Berlin, Connecticut.

As specified in the above referenced letter, the temporary snow fencing has been replaced with permanent chain link fencing to prevent unauthorized access to the areas recently identified to exhibit Polychlorinated Biphenyl (PCB) concentrations in excess of the applicable SEH criteria in soil within the upper two feet of the ground surface. New warning signage has also been posted at prominent locations along the fencing.

NUSCO is in the process of coordinating additional site investigation activities to further define the lateral/vertical extents of upland soil impacts. Portions of the upland area where additional investigation activities are proposed are located within a designated wetland and the 50-foot wetland buffer area; therefore a Determination of Non-Regulated Activity was submitted to and approved by the Town of Berlin Wetlands Department. A revised project schedule will be provided after the upland soil impacts have been delineated.

If you have any questions, please contact the undersigned at (860) 665-5493.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY as Agent for
THE CONNECTICUT LIGHT AND POWER COMPANY

Christopher A. Soroka, Senior Environmental Specialist for
Daniel Watton, Manager – Environmental Cost, Risk and Site Management

cc: C. Nicol (NU)
S. Madhusudhan (NU)
T. McDermott (NU)
L. Saliby (CTDEEP)
G. Trombly (CTDEEP)
Enviance

APPENDIX I
USE RESTRICTION DOCUMENTATION

107 Selden Street, BNM2
Berlin, CT 06037

December 10, 2021

Certification

I, Marc Richards, Director, Sustainability and Environmental Affairs for Eversource Energy Service Company, under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Sincerely,

Marc Richards, PE, LSP
Director, Sustainability and Environmental Affairs
Eversource Energy Service Company

Doc ID: 002027640008 Type: LAN
BK 798 PG 707-714

USE RESTRICTION

This Use Restriction is made this 8th day of December, 2021, by Rocky River Realty Corporation, a Connecticut corporation located in Berlin, Connecticut.

WITNESSETH:

WHEREAS, Rocky River Realty Corporation is the owner in fee simple of certain real property located in Berlin, Connecticut identified as 107 Selden Street, Hartford County, Connecticut and located at the real property located at 107 Selden Street, Berlin, Connecticut, more particularly described on Exhibit A which is attached hereto and made a part hereof (the "Property"); and

WHEREAS. Rocky River Realty Corporation and The Connecticut Light and Power dba Eversource Energy ("Eversource") have completed remediation of polychlorinated biphenyl (PCB) contamination on the property in accordance with the requirements of Title 40, Part 761, Subpart D of the United States Code of Federal Regulations; and

WHEREAS, materials with PCBs greater than 1 ppm but less than or equal to 10 ppm remain in a portion of the Property thereof identified on Exhibit B which are made a part hereof (the "Subject Area"); and

WHEREAS, materials with PCBs resulting from PCB remediation waste disposal remain on the Property and are located in the Subject Area, as shown on Exhibit B, and

WHEREAS, the provisions of 40 CFR 761.61(a)(8) require the placement of a notice on the land records that the impacted area has PCBs; and

WHEREAS, to prevent exposure to or migration of such pollutants and to abate hazards to human health and the environment and as required under 761.61(a)(8)(i), Rocky River Realty Corporation desires to impose certain restrictions upon the use and activities of and at Subject Area; and

WHEREAS, Rocky River Realty Corporation intends that such restrictions shall run with the land and be binding upon and enforceable against Rocky River Realty Corporation and Rocky River Realty Corporation's successors and assigns;

NOW, THEREFORE, Rocky River Realty Corporation agrees as follows:

1. Restrictions Applicable to Subject Area. In furtherance of the purposes of this use restriction, Rocky River Realty Corporation, shall assure that use and activity of and at the Subject Area is restricted as follows:
    a. Use. Subject Area shall be restricted to use as "low occupancy areas" as that term is defined in 40 CFR Section 761.3. At the time of the recording of this restriction, 40 CFR Section 761.3 restricts occupancy in low occupancy areas for any

individual not wearing dermal and respiratory protection for a calendar year to less than 335 hours (an average of 6.7 hours per week).

b. Cleanup Levels. Materials with PCBs greater than 1 ppm but less than or equal to 10 ppm remain in Subject Area and have been encapsulated with a minimum four-foot clean, soil surface cap.

c. No Disturbance of Surface Cap and Fence. The four-foot thick, soil surface cap in Subject Area shall not be disturbed in any manner as a result of excavation, demolition, or any other activities. Surface cap materials shall be maintained in good condition. The fence installed to demarcate Subject Area shall be maintained in good condition.

d. Management of PCB Materials. Any materials containing PCBs greater than 1 ppm within Subject Area that are later disturbed or excavated for any reason, including for construction of improvements on the Property, will be handled in accordance with 40 CFR Part 761 and Connecticut Department of Energy and Environmental Protection ("CT DEEP") regulations.

2. Emergencies. In the event of an emergency which presents a significant risk to human health or the environment, the application of Paragraph 1, above, may be suspended, provided such risk cannot be abated without suspending such Paragraphs and Rocky River Realty Corporation, its successors and assigns, and subsequent owner:
   a. Limits both the extent and duration of the suspension to the minimum reasonably necessary to adequately respond to the emergency; and
   b. Implements all measures necessary to limit actual and potential present and future risk to human health and the environment resulting from such suspension.
3. Release of Restriction, Alterations of Subject Area. Rocky River Realty Corporation, its successors and assigns, any subsequent owner or any other party shall not make, or allow or suffer to be made, any alteration of any kind in, to, or about any portion of any of Subject Area inconsistent with the use restriction unless Rocky River Realty Corporation, its successors and assigns, or any subsequent owner has first recorded such alteration upon the land records of Berlin, Connecticut.
4. Binding Effect. All of the terms, covenants, and conditions of this declaration of use restriction shall run with the land and shall be binding on Rocky River Realty Corporation, its successors and assigns, and each owner and any other party entitled to possession or use of the Property during such period of ownership or possession.

[Signature Page Follows]

ROCKY RIVER REALTY CORPORATION

12/8/2021
Date

By: _____
Name: Salvatore Giuliano
Title: Manager, Real Estate
Eversource Energy Service Company, its agent

Witnesses:

_____
Signature Christopher Gelinas

12/8/2021
Date

Orathip Fagan
Printed Name

_____
Signature

12/8/2021
Date

State of Connecticut

County of Hartford

Personally appeared Salvatore Giuliano of Rocky River Realty Corporation, signer and sealer of the foregoing instrument, and acknowledged the same to be his/her free act and deed, and the free act and deed of said corporation, before me.

_____
Notary Public

Ellen M. Saputo
Notary Public, State of Connecticut
My Commission Expires 6/30/2025

EXHIBIT A

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WARRANTY DEED

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING:

KNOW YE, That I, ARTHUR E. WEBSTER, of the Town of Berlin, County of Hartford and State of Connecticut for the consideration of a valuable sum in dollars received to my full satisfaction of THE ROCKY RIVER REALTY COMPANY, a corporation duly organized under the laws of the State of Connecticut and having its office and principal place of business in the City of Hartford in said County and State, do give, grant, bargain, sell and confirm unto said THE ROCKY RIVER REALTY COMPANY, that certain tract of land (hereafter described as two parcels which are divided by Selden Street) with the improvements thereon standing, situated on the easterly side of the Connecticut State Highway, being Conn. Route #15 and U.S. Route #5, in the Towns of Berlin and Newington, in said County of Hartford, State of Connecticut, which tract contains a total of 108.9 acres, more or less. Said parcels are bounded and described as follows:

FIRST PIECE: Situated on the easterly side of Selden Street and the southerly side of Webster Street, in the Town of Berlin, containing 96.4 acres, more or less and being bounded and described as follows:

Commencing at a point in the westerly line of the Parcel herein conveyed, which point is marked by a Connecticut Highway Department monument located in the Town Line between the Town of Newington and Berlin, and is the northerly terminus of the easterly line of the Town highway known as Selden Street; thence continuing along land of the State of Connecticut, taken for highwey purposes, the following courses and distances, to wit: N 40° 11' E 57.57 feet to a C.H.D. monument; thence N 12° 26' E 146.99 feet to a C.H.D. monument; thence N 34° 58' E 330.01 feet to a C.H.D. monument; thence S 82° 15' E 376.43 feet to a C.H.D monument located southerly of Webster Street; thence N 5° 30' E 8.2 feet, more or less, to a point in the southerly line of Webster Street; thence easterly about 1159 feet, more or less, along the southerly line of Webster Street to another point in the southerly line of Webster Street, which point is the northwesterly corner of land now or formerly of Henry F. Meigs; thence along said land now or formerly of Henry F. Meigs, the following courses and distances: S 19°10' W 6.05 feet, more or less, to a monument thence S 19° 10' W 325.19 feet to a monument; thence S 19° 10' W 8.15 feet; thence S 77° 05' E 4.40 feet to a monument; thence S 77° 05' E 421.46 feet to a monument; thence S 77° 05' E 3.78 feet; thence S 11° 13' W 101.10 feet to a monument; thence S 6° 52' W 8.11 feet; thence S 80° 45' E 9.78 feet to a monument; thence S 80° 45' E 165.64 feet to a monument; thence S 80° 45' E 9.11 feet to a point, which marks a corner common to the parcel herein described, said land now or formerly of Henry F. Meigs and land now or formerly of Anna B. Mihon; thence along the westerly boundary of said land of Anna B. Mihon S 8° 40' W 85.41 feet to a monument; thence S 7° 54' W 477.97 feet to an iron pin in the roots of a 12" maple and a 30" ash at a wire fence intersection, which iron pin marks a corner common to said land now or formerly of Anna B. Mihon, the Parcel herein described, and land now or formerly of Oliver Webster; thence the following courses and distances along said land now or formerly of Oliver Webster: N 80° 34' W 201.93 feet to a monument; thence S 14° 47' W 384.78 feet to a monument; thence S 16° 56' W 107.16 feet to a monument at a wire fence intersection; thence N 80° 55' W 382.61 feet to a monument;

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thence N 79° 48' W 151.35 feet to a monument; thence S 26° 33' W 221.33 feet to a monument; thence S 25° 12' W 139.51 feet to a monument marking a corner common to the Parcel herein described, said land now or formerly of Oliver Webster and land now or formerly of Edmund Walter; thence S 25° 10' W 445.74 feet along the westerly boundary of land now or formerly of Edmund Walter to a monument, which marks a corner common to the Parcel herein described, said land now or formerly of Edmund Walter and land now or formerly of John Jagan; thence along the northerly boundary of land of John Jagan the following courses and distances: N 55° 56' W 718.16 feet to a monument; thence N 56° 27' W 324.57 feet to a monument; thence N 56° 08' W 102.99 feet to a monument; thence N 54° 34' W 75.11 feet to a monument; thence N 56° 48' W 150.78 feet to a monument; thence N 58° 34' W 33.90 feet to a monument; thence N 58° 34' W 15.11 feet, more or less, to the easterly line of Selden Street; thence along the easterly line of Selden Street 1376 feet, more or less to the point and place of beginning.

Bounded: NORTHERLY by land of the State of Connecticut, by Webster Street, and by land now or formerly of Henry F. Meigs, each in part;

EASTERLY by land now or formerly of Henry F. Meigs, land now or formerly of Anna B. Mihon, land now or formerly of Oliver Webster, and land now or formerly of Edmund Walter, each in part;

SOUTHERLY by land now or formerly of Oliver Webster and land now or formerly of John Jagan each in part; and

WESTERLY by Selden Street and land of the State of Connecticut.

SECOND PIECE:

Being a triangular in shape, and situated on the easterly side of Conn. State Highway Route #15 in the Towns of Berlin and Newington, containing 9.6 acres in the Town of Berlin and 2.9 acres in the Town of Newington, and bounded and described as follows:

Commencing at a point in the easterly line of the parcel herein conveyed, which point is the northerly terminus of the westerly line of the Town highway, known as Selden Street; thence continuing southerly about 1274 feet along the westerly line of Selden Street to a point marking the southeasterly corner of the Parcel herein described and the northeasterly corner of land now or formerly of George Arthur the following courses and distances: thence along land of said George Arthur, now or formerly, N 85° 08' W 197.96 feet, more or less, to a monument; thence N 85° 08' W 260.28 feet to a monument; thence N 85° 19' W 101.99 feet to a monument; thence N 86° 09' W 168.26 feet to an iron pipe, which iron pipe marks a corner common to the Parcel herein described, said land now or formerly of George Arthur, and other land of the Grantor; thence N 14° 55' W 226.08 feet along said other land of the Grantor to an iron pipe in the easterly boundary line of said Conn. State Highway Route #15, which iron pipe marks a corner common to said other land of the Grantor and the Parcel herein described; thence N 34° 58' E 654.42 feet along said easterly highway line of a C.H.D. monument; thence N 86° 34' W 5.85 feet to a C.H.D. monument, the last two monuments being located in the town line between the Town of Berlin and Newington; thence N 34° 58' E 711.78 feet along said easterly highway line to a C.H.D. monument; thence S 13° 49' E 127.19 feet along land of the State of Connecticut to a C.H.D. monument; thence S 79° 33' E 10.24 feet, more or less, along land of the State of

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Connecticut to the point or place of beginning, bounded:

NORTHERLY by land of the State of Connecticut;

EASTERLY by Selden Street, so-called;

SOUTHERLY by land now or formerly of George Arthur;

SOUTHWESTERLY by other land of the Grantor herein;

WESTERLY by the easterly line of the Conn. State Highway, being Conn. Route #15 and U.S. Route #5; again

SOUTHERLY by said State Highway; and again

WESTERLY by said State Highway.

The above bearings are referred to the magnetic meridian of 1949.

Being a part of the land conveyed to the Grantor by Daniel Webster by Warranty Deed dated April 9, 1924 and recorded in Vol. 60, page 522 of the Berlin Land Records and Vol. 64, page 114 of the Newington Land Records.

The above described land is more particularly shown on a Map entitled " The Connecticut Light and Power Company, Waterbury, Connecticut District Job Berlin Staff Office Building, Title Plan Showing Land to be Acquired from Arthur E. Webster, Town of Berlin and Newington, Scale 1" = 100' Date 8-11-49 No. 11492-A", a copy of which Map has been or will be filed for record with the Town Clerk in the Towns of Berlin and Newington.

TO HAVE AND TO HOLD the above granted and bargained premises, with the appurtenances thereof, unto it, the said Grantee, its successors and assigns forever, to its and their own proper use and behoof.

AND ALSO, I, the said Grantor, do for myself, my heirs, executors, and administrators, covenant with the said Grantee, its successors and assigns, that at and until the ensealing of these presents I am well seized of the premises as a good indefeasible estate in Fee Simple; and have good right to bargain and sell the same in manner and form as is above written, and that the same is free from all encumbrances whatsoever, except right of the State of Connecticut to discharge water on land adjacent to the present State Highway, as provided in deed recorded in Vol. 83, page 473 of the Berlin Land Records and Vol. 45 page 210 of the Newington Land Records; the provisions of any Zoning Ordinances of the Towns of Berlin and Newington; and taxes on the 1949 Grand Lists of the Towns of Berlin and Newington, which the Grantee hereby assumes and agrees to pay.

AND FURTHERMORE, I, the said Grantor, do by these presents bind myself and my heirs, forever to Warrant and Defend the above granted and bargained premises to it, the said Grantee, its successors and assigns, against all claims and demands whatsoever, except as above stated.

IN WITNESS WHEREOF, I have hereunto set my hand and seal, and to a duplicate of the same tenor, and date, this 18th day of October, 1949.

Signed, sealed and delivered in presence of:

Edward C. Conder
Sherman R. Knapp

Arthur E. Webster
(This deed is executed in duplicate for recording purposes)

STATE OF CONNECTICUT)ss. Berlin, October 18th, 1949.
County of Hartford)

Personally appeared Arthur E. Webster, signer and sealer of the foregoing Instrument, and acknowledged the same to be his free act and deed, before me.

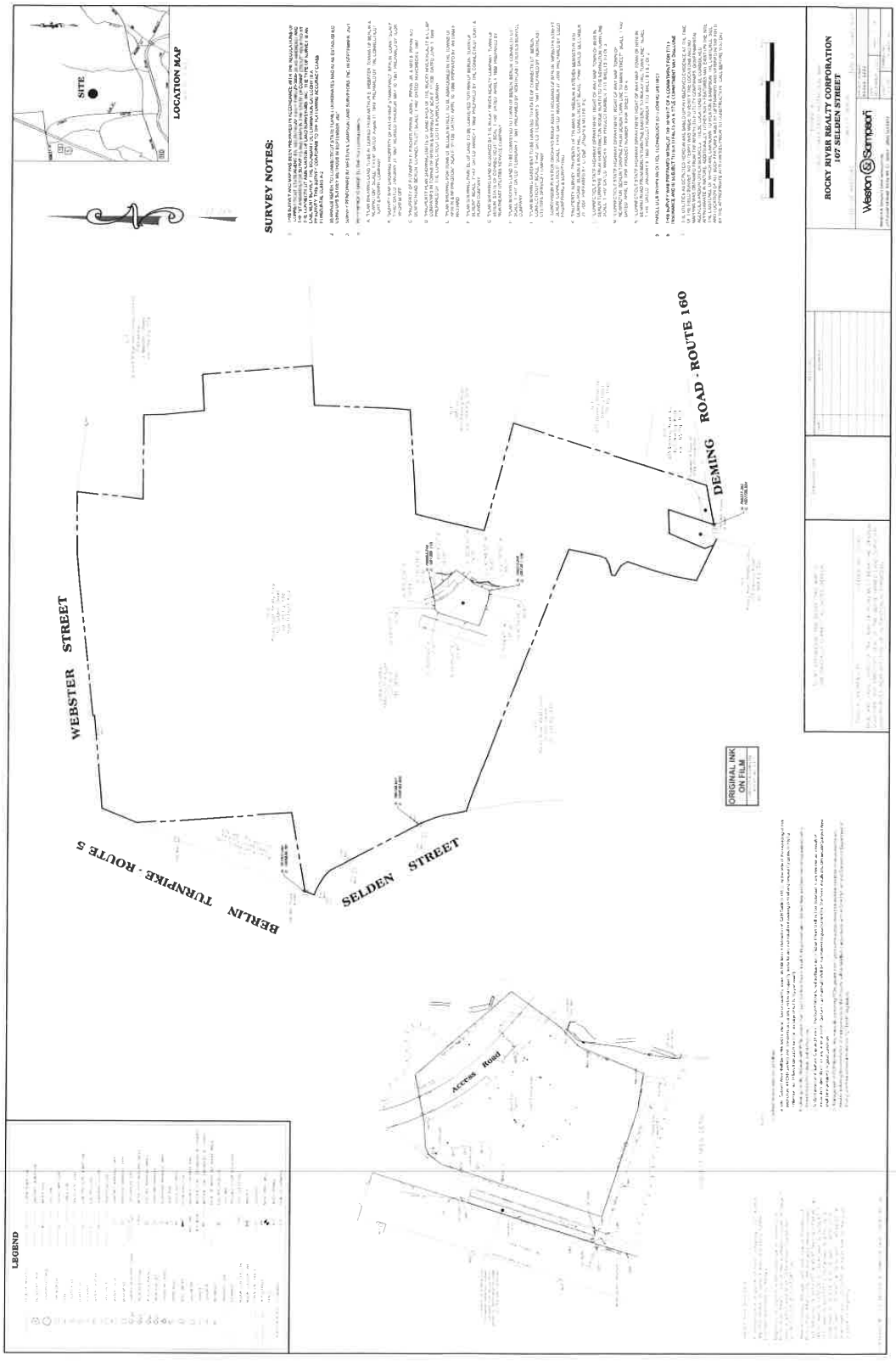
R. F. Probst-Notary Public.

U. S. Internal Revenue Stamps to amount of $ 100.00 affixed to foregoing and duly cancelled.

Margaret Woodruff Asst. Town Clerk.

Received for Record October 18th, 1949 at 3:30 P.M. and recorded by

Margaret Woodruff Asst. Town Clerk.


LOCATION MAP
SITE
SURVEY NOTES:
ROCKY RIVER REALTY CORPORATION
107 SELDEN STREET
Weston & Sampson
WEBSTER STREET
DEMING ROAD - ROUTE 160
SELDEN STREET
BERLIN TURNPIKE - ROUTE 5
ORIGINAL INK ON FILM
Access Road
LEGEND

APPENDIX J
CERTIFICATION OF DOCUMENTS FINAL CONSENT ORDER

107 Selden Street, BNM2
Berlin, CT 06037

December 10, 2021

Certification of Documents Final Consent Order – COWSPCB 16-002

I, have personally examined and am familiar with the information submitted in the enclosed document and all attachments thereto and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate, and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53-a-157b of the Connecticut General Statutes and any other applicable law.

Duly Authorized Representative
Marc Richards, PE, LSP
Director, Sustainability and Environmental Affairs
Eversource Energy Service Company