EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

January 25, 2019

Mr. Gary Trombly
Environmental Analyst 3
Storage Tank & PCB Enforcement Unit
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

HAND DELIVERED

Re: Consent Order No. COWSPCB 16-002
Transmittal of Berlin Settling Basin Remedial Action Plan
107 Selden Street
Berlin, Connecticut

Dear Mr. Trombly:

Pursuant to Section B.1.e of the above-captioned Consent Order, Eversource Energy Service Company (Eversource) is providing two hard copies of the Berlin Campus Settling Basin Remedial Action Plan, dated January 25, 2019, and prepared by Weston & Sampson. A hard copy of the same report will also be mailed to US EPA Region 1 PCB Coordinator.

Please let me know if you need anything else. You can contact me at 860-665-3446 or matthew.calvert@eversource.com.

Sincerely,

Matthew P. Calvert, LEP, LSP, PG, CHMM
Senior Environmental Specialist
Eversource Energy Service Company

Enc:
Berlin Settling Basin Remedial Action Plan, dated January 25, 2019, prepared by Weston & Sampson

cc: Catherine Finneran, Director, Environmental Affairs Department, Eversource
Gary Iadarola, Manager, Remediation, Eversource
Kimberly N. Tisa
Region 1 PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, Suite 100 (OSRR07-2)
Boston, Massachusetts, 02109-3912

Weston & Sampson

westonandsampson.com

273 Dividend Road
Rocky Hill, CT 06067
tel: 860.513.1473

REPORT

January 2019

Eversource Energy

Berlin Settling Basin Remedial Action Plan



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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 Plan (RAP) for the Eversource Berlin Campus Settling Basin located on the property at 107 Selden Street in Berlin, Connecticut (the Site) and this RAP supersedes and replaces the remedial plan previously submitted to the Connecticut Department of Energy and Environmental Protection (CT DEEP) for the Site in September 2015. Eversource proposes to remediate soil at the Site and this RAP presents the plans and procedures to be implemented for the remediation of soil containing polychlorinated biphenyls (PCBs) and other chemical of concerns (COC). This RAP is being submitted to the CT DEEP and the Environmental Protection Agency (EPA) Region 1 for review, comment and approval. A Site Locus Map and an Aerial Site Plan are provided in Figures 1 and 2, respectively.

Several environmental investigations have been performed at the Site since 2010. In July 2018, additional investigation was conducted to complete delineation of PCBs within the settling basin and surrounding area, to characterize other COCs within the area, and to sample groundwater for PCBs and other COCs. The analytical data generated during this Site investigation and other investigations have been used to develop the remedial actions described in this plan.

The COCs at the Site being addressed under this RAP are PCBs, extractable total petroleum hydrocarbons (ETPH), polyaromatic hydrocarbons (PAHs), and the metals barium and beryllium.

The remedial goals for PCBs and other COCs at the Site are:

- To remove soil tested to have PCBs greater than 10 mg/kg from the Site and transport for offsite disposal. Soil with total PCB concentrations ≥50 mg/kg will be transported to a chemical waste landfill for disposal. Soil with >10 mg/kg but <50 mg/kg will be transported to a facility permitted to accept these soils. Removal actions will be documented by sampling performed according to the requirements of 40 CFR Part 761 Subpart O.
- Removal or capping onsite of soil impacted with other COCs that exceed applicable remedial criteria established in the Remediation Standard Regulation (RSRs) in Section 22a-133k-1 through -3, inclusive, of the Regulations of Connecticut State Agencies (RCSA).
- Surficial (i.e., 0 to 2 feet below ground surface areas to be completed with asphalt and 0 to 4 feet below ground surface areas to be completed with turf) soil with PCB impacts tested to have PCBs greater than 1 mg/kg but ≤10 mg/kg will be excavated and capped on-site. Surplus material that cannot be capped on-site due to grading constraints will be transported for offsite disposal. These PCB removal actions will also be documented by sampling performed according to the requirements of 40 CFR Part 761 Subpart O.
- To render PCB-impacted soil with total PCBs ≤10 mg/kg inaccessible by constructing barriers consisting of an orange demarcation layer and four (4) feet of clean backfill seeded with grass. The capped area of PCB-impacted soil will be limited to the area shown on Figure 7.
- To render soil containing other COCs exceeding the CT RSR Industrial/Commercial Direct Exposure Criteria (I/C DEC) inaccessible, the soil will be capped with either four (4) feet of clean backfill seeded with grass or two (2) feet of clean backfill with a minimum of three (3) inches of bituminous concrete.
- An Industrial/Commercial Environmental Land Use Restriction (ELUR) will be placed on this portion of the Site and that residential criteria will not be applicable.
- Compliance with the Pollutant Mobility Criteria (PMC) has been demonstrated by analytical

testing that indicates the materials containing PCBs at 10 mg/kg or less do not exceed applicable criteria.

- For other COCs, compliance with the PMC will be documented by post-excavation sampling of the excavation areas prior to backfilling.
- The existing drainage basin will be abandoned by cutting and capping existing piping and filling the basin area. A replacement drainage system will be permitted and constructed.

This RAP details the measures to be implemented to achieve these remedial objectives.

1.0 INTRODUCTION

Weston & Sampson Engineers, Inc. (Weston & Sampson), on behalf of Eversource, has prepared this Remedial Action Plan (RAP) for the Eversource Berlin Campus Settling Basin (the Site). This RAP presents the plans and procedures to be implemented for the remediation of soil containing polychlorinated biphenyls (PCBs) and other chemicals of concern (COCs) at the Site.

1.1 Site Location & Description

The Site is an approximately 8,000 square-foot stormwater settling basin located on Eversource's Berlin Campus at 107 Selden Street in Berlin, Connecticut. The Site location is shown in Figure 1 – Locus Map and an aerial site plan is shown as Figure 2. To the west is an asphalt-paved area used for equipment storage and laydown. PCB-containing materials were previously stored within this paved area. Further to the west is a parking garage. To the north are additional parking lots and wetlands. Immediate to the east is an unnamed stream. Stormwater runoff that discharged into the settling basin eventually discharged to this stream. The unnamed stream flows to the south of the settling basin and the area around the stream are mostly undeveloped. Geographic coordinates for the Site are:

Latitude/Longitude:	41° 38' 58" North/72° 43' 30" West
	675,239.9 meters Northing
	4,574,883.6 meters Easting

The Site is currently vacant and contains structures and piping associated with the active drainage basin. The location of the settling basin and portions of the surrounding areas have been fenced due to a Significant Environmental Hazard (SEH) involving PCBs in shallow soil.

1.2 Site Background

Prior to the development of the settling basin, the Site was utilized as a pole-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 PCB containing equipment. However, given that the highest concentrations of PCBs are typically found beneath the surface and that the concentrations are inconsistent within the soil column, the primary source for PCB and other COC impacts is believed to be from the fill materials used during regrading of this area. Placing and compacting the fill could produce the "lack of pattern" in the distribution of PCB impacts observed.

The Site was subsequently used to form the settling basin and drainage pipes were installed from the asphalt-covered area located to the west of the basin. The parking area to the west was used to store PCB-containing equipment and other materials. Stormwater runoff from this area is potentially a source of surficial PCB and metals impacts found within the settling basin.

1.3 Site Geology and Hydrogeology

1.3.1 Geology

Soil at the Site consists of reddish-dark brown silt with fine reddish-dark brown sand to five feet below the ground surface(bgs) 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 five to ten feet bgs. Wood debris was encountered in certain borings and the wood appeared to have been treated.

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 area. The area was subsequently regraded for construction of the settling basin and drainage pipes were installed. Thus, much of the soil in the area of the settling basin is fill that has been subsequently disturbed.

1.3.2 Groundwater

The CT DEEP has classified the overburden groundwater aquifer that flows beneath the Site as GA (suitable for drinking without treatment). An unnamed stream located approximately 70 feet (ft) southwest of the outlet from the settling basin is the closest body of water to the Site.

1.4 Applicable Laws, Regulations, and Statutes

Applicable Regulations for the Site include the federal PCB regulations found in Chapter 40 of the Code of Federal Regulations, Part 761 (40 CFR Part 761), the Connecticut Remediation Standard Regulation (RSRs) found in the Regulations of Connecticut State Agencies (RCSA), Section 22a-133k-1 through 3, inclusive, and the Significant Environmental Hazard (SEH) statute found in Section 22a-6u of the Connecticut General Statutes (CGS).

1.4.1 Federal PCB Regulations

Applicable sections of 40 CFR Part 761 that apply to the procedures and goals as described in this RAP include:

- §761.61 – PCB Remediation Waste, section of the regulation applicable to the remediation of PCB Remediation Waste.
    - §761.61(a) – Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste – sections that specifies procedures and remedial goals for remedial actions.
    - §761.61(c) – Risk-Based Disposal, if all procedures specified in §761.61(a) are not followed as written, the EPA PCB Coordinator may approve alternative procedures under this section.
    - §761.61(a)(4) – Cleanup Levels, section establishing remedial goals for remediation. This RAP described remediation of PCBs to the High Occupancy standard of 10 mg/kg which requires installation of a cap as per §761.61(a)(7) and recording of deed restrictions in accordance with §761.61(a)(8).
- §761.65 – Storage for Disposal, section providing requirements for the storage of PCB Wastes.
- §761.79 – Decontamination Standards and Procedures, section providing procedures to be implemented in the decontamination of materials, equipment, and some environmental media.
- Subpart N – Cleanup Site Characterization Sampling for PCB Remediation Waste in Accordance with §761.61(a)(2).
- Subpart O – Sampling to Verify Completion of Self-Implementing Cleanup and On-Site Disposal of PCB Bulk Remediation Waste and Porous Surfaces in Accordance with §761.61(a)(6).

This RAP requires approval from the Environmental Protection Agency (EPA) under §761.61(a), §761.61(c), and §761.79(h). Approval under §761.61(c) is needed because of variations from Subpart N and §761.61(a)(7).

1.4.2 Connecticut RSRs

Since the Site is subject to a December 26, 2018 Consent Order with CT DEEP, remediation of impacts to soil are regulated under the Connecticut RSRs, Section 22a-133k-1 through -3, inclusive. It is anticipated that an industrial/commercial (I/C) Environmental Land Use Restriction (ELUR) will be placed on the property in accordance to the requirements of 22a-133q-1 of the RCSA. As such, remediation will be performed to comply with the I/C Direct Exposure Criteria (DEC) for COCs at the Site. Remediation will also be performed to comply with the GA Pollutant Mobility Criteria (PMC).

1.4.3 Connecticut SEH Statute

SEH conditions and required reporting are described in CGS Section 22a-6u. During Site investigations, PCB impacted soil at the Site exceeded SEH conditions in surface soil and was reported to the CT DEEP. Access to areas with SEH classified soil has been restricted by fencing which has been maintained. As part of the Remedial Action Report (RAR), applications will be made and submitted to remove the listing of the Site from the SEH database.

2.0 SUMMARY OF SITE INVESTIGATIONS

Several Site investigations have been performed to evaluate the nature and extent of releases and impacts to soil at the Site. This section provides a summary of the investigation activities conducted to characterize the presence of PCBs and other COCs.

2.1 Previous Investigations

Weston & Sampson has performed a series of investigations at the Site to characterize and delineate PCB and other COC impacts to soil and groundwater. These investigations are described below, and the findings have been used to develop this RAP.

2.2 Remedial Investigation Sampling Plan, Northeast Utilities Berlin Campus Storm Water Settling Basin, February 2012

In February 2012, Weston & Sampson prepared a remedial investigation sampling plan (the "Plan") to delineate and pre-characterize soil impacted with PCBs in accordance with Subpart N of the federal PCB regulations and §761.61(a). The intent of the investigation was to assess the degree and extent of the PCB-impacted soil located at the Site. Within the Plan, a previous investigation conducted at the Site by Northeast Utilities Service Company (NUSCO; now Eversource Energy Service Company) was discussed. In July 2010, prior to maintenance on the settling basin, NUSCO collected soil samples from five of the seven hand auger boring locations (TP-1, TP-3 through TP-5 and TP-7). Analytical results indicated that PCBs were detected in soil samples from TP-4 and TP-5 at concentrations of 5.8 mg/kg and 1.7 mg/kg, respectively. NUSCO concluded that additional investigation and sampling for the presence of PCBs was warranted prior to the planned maintenance of the settling basin.

Limited additional investigation performed by Weston & Sampson prior to preparing the 2012 Plan was also discussed. In December 2011, Weston & Sampson completed 15 direct push borings (WSE-1 through WSE-15) and collected discrete soil samples. PCBs were detected above 1 mg/kg at WSE-1 though WSE-4, WSE-6, WSE-9 though WSE-11, and WSE-13 through WSE-15.

In January 2012, Weston & Sampson collected three discrete sediment samples (WSE-16 though WSE-18) downstream of the settling basin outfall in the unnamed stream and sediment samples were also collected from a catch basin in the paved parking area located southeast of the parking garage. PCBs were detected in sediment sample WSE-17 at 0.23 mg/kg but was not detected in the other samples.

The detected concentrations of PCBs above the 1.0 mg/kg in soil appeared to be distributed within the central and southern portions of the settling basin. The Plan was created by Weston & Sampson after review of the existing data to address the data gaps based on the lateral/vertical distribution of the data collected to date. The Plan can be found attached in **Appendix A**.

2.3 Self-Implementing and Risk-Based Hybrid Cleanup Plan September 2015

In April 2014, Weston & Sampson conducted supplemental remedial activities to further characterize the nature and extent of PCB impacts at the Site by advancing 24 soil borings (B-99 through B-122). Total PCBs exceeding the RES DEC and I/C DEC were detected in numerous boring locations. Total PCBs were detected below the RES DEC in soil borings, B99-2, B101-3, B102-2, B105-3, B108-1, B108-2, B111-3, B114-4, B112-1, B113-3, B113-4, B115-2, B117-3, B118-2 and its' duplicate (DUP-103), B119-4, B119-5, B120-3, B121-2. B121-3, B122-1. Total PCBs exceeding 1 mg/kg but less than 10 mg/kg were detected in B101-2 and its' duplicate (DUP-100), B103-1, B104-1, B106-1, B109-2 and its' duplicate (DUP-106), B110-1 and its' duplicate (DUP-102), B111-1, B111,2, B113-2, B114-1, B117-2. B118-1, B11903, B120-1, B120-1, B120-2, and B122-2. Total PCBs exceeding 10 mg/kg were detected in B99-1, B100-2, B102-3, B103-2, B105-1, B107-1, B109-1, B10901, B113-1, B115-1, B116-1, B117-1,

B119-1, and B119-2. The data can be found in Appendix C.

Between May and July 2015, Weston & Sampson performed additional investigation by advancing 64 soil borings (B-123 through B-186) and installing six groundwater monitoring wells (MW-1 through MW-6). Results of this investigation are summarized in Table 5 (soil analytical results) and Table 6 (groundwater analytical results) in Appendix C. The vertical extent of PCB impacts was assessed to be seven feet below grade or less and the horizontal extent of PCB impacts less than 10 mg/kg were delineated. With limited exceptions (further described below), the horizontal limits of the PCB impacts were defined to be less than 1 mg/kg.

In September 2015, Weston & Sampson prepared a draft Self-Implementing and Risk Based Hybrid Cleanup Plan (Hybrid Plan) for pre-characterization, removal, disposal, and remediation of soil impacted with PCBs at the Site. The Hybrid Plan proposed to remove and dispose of impacted soil at the Site containing PCBs greater than 25 mg/kg, as well as excavating and capping PCB-impacted soils with concentrations greater than 10 mg/kg and less than 25 mg/kg. The Hybrid Plan also proposed an ELUR with access restricted by a locked, chain-link fence with warning signage for PCB impacted soil with concentrations less than 10 mg/kg. The Hybrid Plan was submitted to EPA and DEEP on October 1 2015 for review and comment. Comments were received from the EPA on August 4, 2016 and from the CT DEEP on September 15, 2016. Based on subsequent discussions with the agencies, this RAP is now being submitted and supersedes and replaces the Hybrid Plan submitted in October of 2015.

2.4 Berlin Settling Basin Additional Investigation July 2018

In July 2018, Weston & Sampson conducted additional Investigation to further characterize PCB and other COC impacts. During the investigation, soil samples were collected and analyzed for PCBs, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), extractable total petroleum hydrocarbons (ETPH), and metals. The extent of the PCB impacts within the area was delineated to less than one milligram per kilogram (<1 mg/kg). VOCs were not detected in any of the samples collected and were eliminated as a COC for the Site. ETPH, polyaromatic hydrocarbons (PAHs), and the metals barium and beryllium were detected at concentrations that exceed applicable remedial criteria and are considered COCs in soil. Groundwater samples were collected and analyzed for PCBs, VOCs, SVOCs, ETPH, and metals from monitoring wells previously installed within the investigation area. VOCs, SVOCs, and PCBs were not detected and were eliminated as COCs in groundwater. ETPH, barium, silver and zinc exceeded applicable remedial criteria and are COCs in groundwater. The investigation report can be found in Appendix C. The findings from this investigation are summarized in Figures 3 through 5 and the data are presented in Tables 1 and 2.

2.5 Conceptual Site Model

An updated conceptual site model (CSM) has been developed for the Site based upon the data collected to date.

The pre-development Site conditions prior to construction of the Eversource Berlin Campus are not known. However, based on a historic aerial photograph dated August 21, 1969 and interviews with knowledgeable Eversource staff, the Site area was filled and then used as a pole-training facility. After the use as a training area was terminated, the area was regraded, and the settling basin was constructed to receive stormwater runoff from the paved area and parking garage constructed to the west. Vertical extent of impacts ranges from two feet to seven feet bgs throughout the Site. Horizontal extents are shown on Figure 6.

2.5.1 Potential Sources and Chemical of Concern

The following potential sources of COCs at the Site have been identified:

- Fill: Fill materials placed at the Site is a potential source of PCB and other COC impacts to soil. Soil characterization indicate heterogenous distribution of PCBs. Placing of fill materials with varying levels of impacts and then reworking and regrading the fill could account for this heterogeneity. Metals and ETPH are also present in the fill.
- Pole Training Area: There is a potential that PCB-Oil filled equipment was used during training operations in this area and surficial soil impacts due to releases during training are possible. However, because the area was regraded to construct the settling basin, some of these release areas may have been re-distributed/covered. Treated wood poles and associated surficial/deeper soil impacts may be present.
- Settling Basin: The settling basin received stormwater discharge from the asphalt-covered area to the west of the Site. PCB-containing materials were historically stored on the asphalt. Releases from this equipment could have washed off the asphalt and discharged to the settling basin as a potential source of PCB, ETPH, PAH, and metals to surficial soil.
- Groundwater: ETPH, barium, silver and zinc are COCs in Site groundwater.

3.0 REMEDIAL ACTION PLAN

This section outlines the plans and procedures to be implemented for the remediation of PCB and COC impacted soils at the Site. Details regarding the remedial objectives, scope, and sequence of remediation are provided below.

Public notification will be performed prior to performance of the remediation. The public notification will consist of (1) posting a sign of the size specified by CT DEEP and with the required wording on the property a minimum of thirty days prior to starting remediation, (2) publishing notice of remediation in a newspaper of wide circulation in the Town of Berlin, Connecticut, and (3) notifying the Central Connecticut Health District that represents the Town of Berlin.

3.1 Remedial Goals

The remedial goals for PCBs and the other COCs at the Site are:

- To remove and dispose of soil with PCBs greater than 10 mg/kg at an off-site facility. Soil with total PCB concentrations ≥50 mg/kg will be transported to a chemical waste landfill for disposal. Soil with >10 mg/kg but <50 mg/kg will be transported to an out-of-state facility permitted to accept these soils. Removal actions will be documented by sampling performed according to the requirements of 40 CFR Part 761 Subpart O.
- Soil with PCBs greater than 1 mg/kg but less than 10 mg/kg will be consolidated and capped on-site. These PCB removal actions will also be verified by sampling performed according to the requirements of 40 CFR Part 761 Subpart O. The barrier to be constructed over the PCB-impacted soil will consist of an orange geotextile placed over the excavation surface and then covering with four feet of clean soil seeded with grass covering. The goal will be to limit the area of soil impacted with PCBs at these concentrations to the designated Cap Area shown on Figure 7. Excess PCB-impacted soil that cannot be consolidated beneath the cap due to grading constraints will be transported off-site for disposal.
- Soil impacted by other COCs but not PCBs may also be capped beneath the roadway by placing two feet of clean materials and then paving with a minimum of three inches of bituminous concrete.
- To remove source materials of groundwater impacts and to perform post-remediation monitoring to assess compliance with applicable remedial criteria.
- To abandon the existing drainage basin by cutting and capping pipes that convey stormwater and to fill the basin area to match surrounding surface elevations following the completion of remedial excavations. Stormwater will be routed through a replacement drainage system that will include sediment removal and flow equalization.

These remedial goals include recording an Industrial/Commercial ELUR on the Site that restricts residential uses. The ELUR will be filed on the property records following the completion of remedial activities.

3.2 Conceptual Remedial Approach

The conceptual approach for remediation will be to remediate PCB- and other COC-impacted soil. To achieve this objective, planned remedial activities will include:

- Preparation of remedial plans and receipt of EPA and CT DEEP Approvals;
- Preparation of applications for permits and receipt of approval from the responsible agency (see subsection 3.3.1);
- Provide public notice of remedial actions;

- Preparation of the Site by establishing temporary facilities, fencing, signage, and erosion and sedimentation controls (see section 3.4);
- Excavation and off-site disposal of PCB-impacted soil with total PCB concentrations greater than 10 mg/kg at any location (see sections 3.6 and 3.8);
- Excavation and on-site relocation of PCB-impacted soil with total PCB concentrations less than 10 mg/kg but greater than one mg/kg (see section 3.6);
- Excavation and off-site disposal or on-site relocation of soil impacted with other COCs that exceed the I/C DEC (see sections 3.6 and 3.8);
- Collection of post-excavation soil samples for PCB analysis and for other COCs as necessary to confirm the limits of soil remediation (see section 3.7);
- Preparation of sub-grade and on-site relocation of soils in areas to be capped (see section 3.9);
- Construction of soil and asphalt barriers to render soils inaccessible (see section 3.9);
- Final restoration of soil excavation areas to the proposed elevations (see section 3.9);
- Installation of groundwater monitoring wells for post-remediation monitoring; and
- Installation of permanent fencing and signage around the Site perimeter (as required by the ELUR).

3.3 Remedial Planning

3.3.1 Permits

The following permits and approvals from federal, state and local government agencies are anticipated for Site remediation:

- EPA and CT DEEP approval of this RAP EPA approval serves as notification of Eversource's intent to conduct a self-implementing cleanup plan with some provisions to be approved under §761.61(c). The signed certification, as required by §761.61(a)(3)(E), is included as Section 5 of this report. CT DEEP approval is required by the December 2018 Consent Order;
- CT DEEP General Permit for Discharge of Groundwater Remediation Wastewater Directly to a Sanitary Sewer;
- Town of Berlin Inland Wetlands and Watercourse Agency, including Stormwater Pollution Prevention Plan (<5 acres); for remedial work within the buffer zone of the wetlands and watercourse at the Site; and
- Town of Berlin Planning and Zoning Site Plan Review for installation of the new drainage system.

Although not anticipated to trigger the stockpile storage requirements, excavated soil management procedures will be monitored during construction and, if necessary, the project will be registered and follow the requirements of the CT DEEP General Permit for Contaminated Soil and Sediment Management. Permits will be obtained by Weston & Sampson prior to initiating work.

3.3.2 Contractor Submittals

The selected Remedial Contractor will be required to prepare and provide submittals prior to initiating remedial work at the Site. These submittals will include but are not limited to a Dust Control Plan, Excavation Support Plan, Excavated Material Management Plan, Dewatering Effluent Treatment Plan, Traffic Control Plan, and an Equipment Decontamination Plan. These plans will be reviewed by Eversource and Weston & Sampson for completeness prior to conducting remedial activities. Weston & Sampson will prepare and implement an Air Monitoring Plan as described below.

3.4 Site Preparation and Temporary Construction Controls

Prior to initiating remedial activities, public notification will be performed, and Site controls installed as required under the permits obtained to perform the work.

3.4.1 Erosion and Sedimentation Controls

Prior to initiating soil excavation, erosion and sedimentation controls will be installed around designated work areas and Site perimeter as designated in the Stormwater Pollution Prevention Plan and the permit obtained from the Town of Berlin IWWA. The erosion and sedimentation controls will be designed and installed in accordance with the Connecticut Guidelines for Erosion and Sediment Control. The controls will also be inspected and maintained by the Contractor throughout construction and removed following final stabilization of disturbed surfaces.

3.4.2 Dust Monitoring

Dust monitoring for total particulate emissions and fugitive dust within work areas and at the Site perimeter will be implemented during soil excavation and handling activities to reduce potential exposures to on- and off-Site receptors during remediation. Air monitoring will be conducted continuously using real-time measurement equipment.

The selected Remedial Contractor will be required to develop a Dust Control Plan that will include provisions to mitigate dust exposures to Site workers and Eversource employees/visitors.

The air monitoring plan to be prepared and implemented by Weston & Sampson will include action levels at which the Remedial Contractor will be required to implement or to increase dust control measures. Total Suspended Particulates (TSP) will be monitored in real time using 15-minute time-weighted averages. An action level of 80% the National Ambient Air Quality Standard (NAAQS) of 150 ug/m^3 will be established for the project. The results for the dust monitoring will be reviewed regularly by Eversource and the Remedial Contractor to evaluate the effectiveness of the dust control measures employed. At a minimum, dust controls will include the use of windscreens on temporary fencing and use of polyethylene sheeting over temporary stockpiles. If necessary, active dust controls, such as wet spraying will also be deployed.

3.4.3 Clearing and Grubbing

As seen on Figure 2, limited clearing and grubbing of brush and small trees at the Site will be required to clear remediation areas and to allow Site access. Within remediation areas, the Remedial Contractor will cut the brushy vegetation approximately six inches from the ground surface and will be responsible for the removal of the clearing wastes from the Site. The roots will be handled and disposed of in the same manner as the soil it is in contact with (e.g., roots in contact with PCB Remediation Waste soil will be sized as required and disposed of with the surrounding soil as PCB Remediation Waste).

3.4.4 Subsurface Structures

Subsurface structures to be abandoned include the drainage pipe system associated with the settling basin are noted on Figure 6. The following procedures will be employed to abandon these structures:

- The drainage piping will be jet washed and the wash water will be collected and sent to the dewatering effluent treatment system for decontamination prior to discharge;
- Piping from the catch basins will be rerouted to the new drainage system; and
- Existing pipes will be abandoned in place by cutting, capping, and filling with flowable fill.

Temporary stormwater drainage systems will be designed in accordance with the IWWA permit conditions to manage stormwater during remediation.

3.5 Replacement Drainage System

The settling basin will be abandoned following the construction of the new drainage system. The new drainage system will be installed following the completion of remedial excavations but prior to backfilling the excavated areas.

The replacement drainage system will accept flows from the same parking areas as the settling basin and the new system will include a vortex for sediment removal and piping to reduce peak discharge/ equalize flow during rain events. Sediment removal from the vortex unit will be performed as needed. Collected sediments will be characterized for appropriate off-site disposal.

3.6 Soil Excavations

Soil excavation areas are shown on Figure 6. Prior to performing soil excavations, the Remedial Contractor shall survey and mark the extent of the excavations in the field. Soil excavations will be performed to the depths indicated on Figure 6 at a minimum and will be extended if post-excavation sample results indicate that remedial goals have not been achieved.

Excavated soil disposal will be performed as described in Section 3.8. Excavated soil to be relocated on-site will be handled as described in Subsection 3.9.2.

3.6.1 Site-Specific Design Considerations

Groundwater will be encountered at varying depths below grade as the surface slopes downward toward the unnamed stream and wetlands on the Site. At the western edge of the Site, where the surface elevation is highest, groundwater is encountered at approximately 15 feet bgs or greater. Excavation is not anticipated to those depths. At the eastern edge of the Site, groundwater is encountered approximately 5 to 6 feet bgs. As such, groundwater is only anticipated to be encountered in the deeper soil excavations to be performed near these surface water features.

The Remedial Contractor will be required to obtain the services of a Professional Engineer to design the dewatering and effluent treatment system as well as soil excavation support systems. The Remedial Contractor will submit stamped plans for dewatering and excavation support which Weston & Sampson will review/approve prior to initiation of work. These drawings will be used by Weston & Sampson to obtain the General Permit submittal to discharge water to the sanitary sewer.

3.7 Post-Excavation Sampling

The extent of PCB and other COC soil excavation based on Site characterization completed to date is shown on Figure 6. The final extent of soil excavation will be determined based on the post-excavation sample results.

Post-excavation samples will be collected and analyzed for total PCBs and other COCs. Post-excavation sampling for PCBs will be performed in accordance with the procedures specified in 40 CFR Part 761 Subpart O.

Post-excavation samples will also be tested for polyaromatic hydrocarbons, selected metals, and extractable total petroleum hydrocarbons as required. The additional parameters will be selected based upon the results from the initial characterization sampling performed in 2018. Additional testing using the synthetic precipitation leachate procedure (SPLP) will also be performed for soil above the groundwater table, as needed. The frequency of post-excavation samples for other COCs will be one sample for every 30 linear feet of excavation sidewall and two feet of depth (e.g., three verification samples will be collected from a 30-foot sidewall in an excavation performed to six feet below grade). Post excavation samples will be collected from the base of excavations at a frequency of one per every 500 square feet.

3.7.1 Contingency

Based on the sampling and analysis conducted to date, the extent of PCBs and other COCs in soil is well understood. However, due to the source of the release, removal of additional soil impacted by PCBs may be required to address heterogeneity in subsurface conditions and achieve the remedial objectives. The final limits of soil excavation will be determined according to the post-excavation soil sampling frequency described above. If post-excavation sample results indicate PCB concentrations exceed remedial goals, then additional soil will be removed.

Specifically, the horizontal limits of excavation will be extended in five-foot increments for failed sidewall samples, and the vertical limits of excavation will be extended in one-foot increments for failed bottom samples. Following the additional removal, additional samples will be collected. This process will continue until residual PCB and COC concentrations in soil are less than remedial goals.

3.8 Waste Management

3.8.1 Soil and Concrete

Excavated soil and concrete from PCB-impacted excavations will be live-loaded into waste containers for transport off-site for disposal. It is estimated that approximately 1,100 tons of soil and concrete will be removed from the Site for disposal as PCB Remediation Waste ≥50 mg/kg at a chemical waste landfill or a Subtitle C Landfill permitted to accept such wastes. It is estimated that an additional 4,350 tons of soil will be removed from the Site for disposal as PCB Remediation Waste < 50 mg/kg at a landfill permitted to accept such wastes.

3.8.2 Dewatering Effluent

Dewatering effluent from soil excavations will be treated prior to discharge. The Remedial Contractor will be responsible for the design of the dewatering effluent treatment system and drawings are to be stamped by a Professional Engineer prior to submittal to Eversource/Weston & Sampson for review and approval.

It is anticipated that dewatering effluent will be discharged to the publicly owned treatment works/sanitary sewer. Weston & Sampson will prepare the permit application forms for obtaining a General Permit for the Discharge of Groundwater Remediation Wastewater to the sanitary sewer.

3.9 Site Restoration

Site restoration will be performed following the completion of removal actions (i.e., soil excavations) at the Site. The purpose of the Site restoration activities will be to stabilize areas of removal actions and to create barriers to render soil beneath the restored areas inaccessible.

3.9.1 Installation of Demarcation Barriers

Following achievement of remedial goals, for the purposes of future site management, a demarcation barrier consisting of an orange geotextile will be placed at the base of PCB and COC excavations areas to separate impacted Site soil from clean materials to be used in Site restoration.

The base of the excavations will be smoothed and compacted prior to placing the demarcation barrier. After the base has been adequately prepared, the orange geotextile will be placed on the base and sidewalls and secured with landscaping staples suitable for this use.

3.9.2 Backfilling Excavations

Excavations will be backfilled with suitable backfill materials. Backfill will be tested at a frequency of one

analytical sample per every 500 tons of material to be transported to the Site. Each sample will be tested for volatile organic chemicals (VOCs), semivolatile organic chemicals (SVOCs), extractable total petroleum hydrocarbons (ETPH), pesticides, PCBs, and RSR-15 metals.

Backfill materials will be considered to be non-polluted (i.e., not impacted by a release) if organics (e.g., VOCs, SVOCs, ETPH, pesticides, PCBs) are not detected and metal concentrations are comparable to natural background concentrations as determined for the State of Connecticut. Only non-polluted soil will be used to backfill excavations below the groundwater surface. Polluted fill materials will only be used on the property if (1) a permit has been obtained for their beneficial reuse and (2) any chemicals detected in the soil due to a release are at concentrations less than the RDEC or GA PMC, whichever is lower.

Soil excavated at the Site with (1) PCB concentrations <10 mg/kg and (2) that don't exceed the GA PMC for other COCs will be used as backfill beneath areas to be capped and these impacted soils will be rendered inaccessible by construction of a cap. These soils will not be placed beneath the groundwater table.

Backfill materials will be placed and compacted in one-foot lifts to 90% of the modified proctor density.

3.9.3 Establishing Turf

Areas to be completed with grass will be backfilled with six inches of topsoil and then hydroseeded. Topsoil will be tested for VOC, SVOCs, ETPH, pesticides, and metals at a frequency of one sample per every 500 tons of material to be transported to the Site. The topsoil shall be a non-polluted material free from impacts due to release.

3.9.4 Construction of Soil Caps to Render Soil Inaccessible

Soil caps will be constructed in areas not to be completed with pavement to render the soil beneath inaccessible as shown on Figure 6. The soil cap will consist of the demarcation barrier and soil determined to be non-polluted or polluted soil for which a beneficial reuse permit has been obtained. The limits of PCB-impacted soil to be relocated on-site will be within the Cap Area shown on Figure 7.

3.9.5 Paving

Paving materials and paving operations will be performed in accordance with the requirements of the Connecticut Department of Transportation Form 817. Prior to placing subbase for the asphalt, the limits of excavation areas to be paved will be smoothed and compacted. Subbase and base materials will be placed and compacted (minimum 24 inches thick), and then completed with a minimum of three inches of bituminous concrete. Areas to be completed with paving are shown on Figure 6. Pavement will not be used to cap or render PCB-impacted soil inaccessible. Soil excavations beneath the paved areas will be performed until post-excavation sample results are <1 mg/kg total PCBs.

3.9.6 Fencing

Permanent chain-link or similar security fencing will be installed around the perimeter of the work area following the final completion of work activities.

3.9.7 Survey

The final horizontal and vertical extent of soil excavations will be surveyed following the receipt of post-excavation sample results indicating that remedial goals have been achieved and prior to backfilling. Final surface grades will be surveyed following the completion of Site Restoration. Survey work will be performed by a Connecticut-Licensed Land Surveyor and shall comply with A-2 and T-2 standards.

3.10 Equipment Decontamination

Equipment that contacts PCB Remediation Wastes will either be (1) disposed with the PCB Remediation Wastes or (2) decontaminated prior to removal from the Site or being used for non-PCB work. Non-porous surfaces will either be (1) swabbed with a solvent containing greater than seventy-five percent terpene hydrocarbons or (2) double washed/rinsed in accordance with the procedures outlined in 40 CFR 761, Subpart S.

Solid waste generated during decontamination will be stored and handled with PCB Remediation Wastes. Wash water from equipment decontamination will either be decontaminated with dewatering effluent from soil excavation areas for discharge or collected and pumped to an on-Site temporary storage tank. Accumulated wash water will be sampled for disposal characterization analysis and transported and disposed of off-Site based on the characterization data.

Heavy equipment and other materials used in the handling and storage of non-PCB-impacted soil will be dry decontaminated to remove soil which will be disposed of with non-PCB wastes.

3.11 Maintenance and Monitoring Procedures During Construction

The selected Remedial Contractor will be responsible for maintenance of Site conditions such that they comply with the requirements of this RAP, the EPA and CT DEEP Approvals, and permits obtained for the work. The Remedial Contractor will also be responsible for performing some Site monitoring tasks as required under this RAP, the EPA Approval, and permits (e.g., sampling of treated dewatering effluent, inspection of sediment and erosion controls) during the performance of Site remediation activities.

Weston & Sampson will serve as the Owner's Representative and will observe remedial activities, Site restoration, and the disposal of PCB and COC impacted soil. During remediation, Weston & Sampson will record remediation progress, perform air monitoring, and collect post-excavation samples. Following remedial the completion of remedial activities, Weston & Sampson prepare a Remedial Action Report (RAR) for submittal to EPA and CT DEEP.

4.0 LIMITATIONS

This Remedial Action Plan was prepared for the use of the Eversource, exclusively. 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 investigation, may result in a modification of the findings stated in this report.

Should additional information become available concerning this Site or neighboring properties which 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, information provided by Eversource, 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.

5.0 CERTIFICATION

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.

Additionally, I certify that I have read and understand the specification requirements for remediation of Eversource's Berlin Campus Storm Water Settling Basin. To the best of my knowledge, all sampling plans, sample collection procedures, extraction procedures and chemical analysis procedures used to characterize PCB impacts at Berlin Campus Storm Water Settling Basin are on file at Eversource's Berlin Campus and are available for EPA inspection.

Duly Authorized Representative
Catherine Finneran
Environmental Affairs Director
Eversource Energy Service Company

Preparer
Matthew P. Calvert, LEP, LSP, PG, CHMM
Senior Environmental Specialist
Eversource Energy Service Company

6.0 REFERENCES

Weston & Sampson, 2018. Berlin Settling Basin Phase III Investigation Report, October 2018.

Weston & Sampson, 2015. Berlin Campus Settling Basin Self-Implementing & Risk Based Cleanup Plan, September 2015.

Weston & Sampson, 2012. Remedial Investigation Sampling Plan, Northeast Utilities Berlin Campus Stormwater Settling Basin, February 2012.

FIGURES

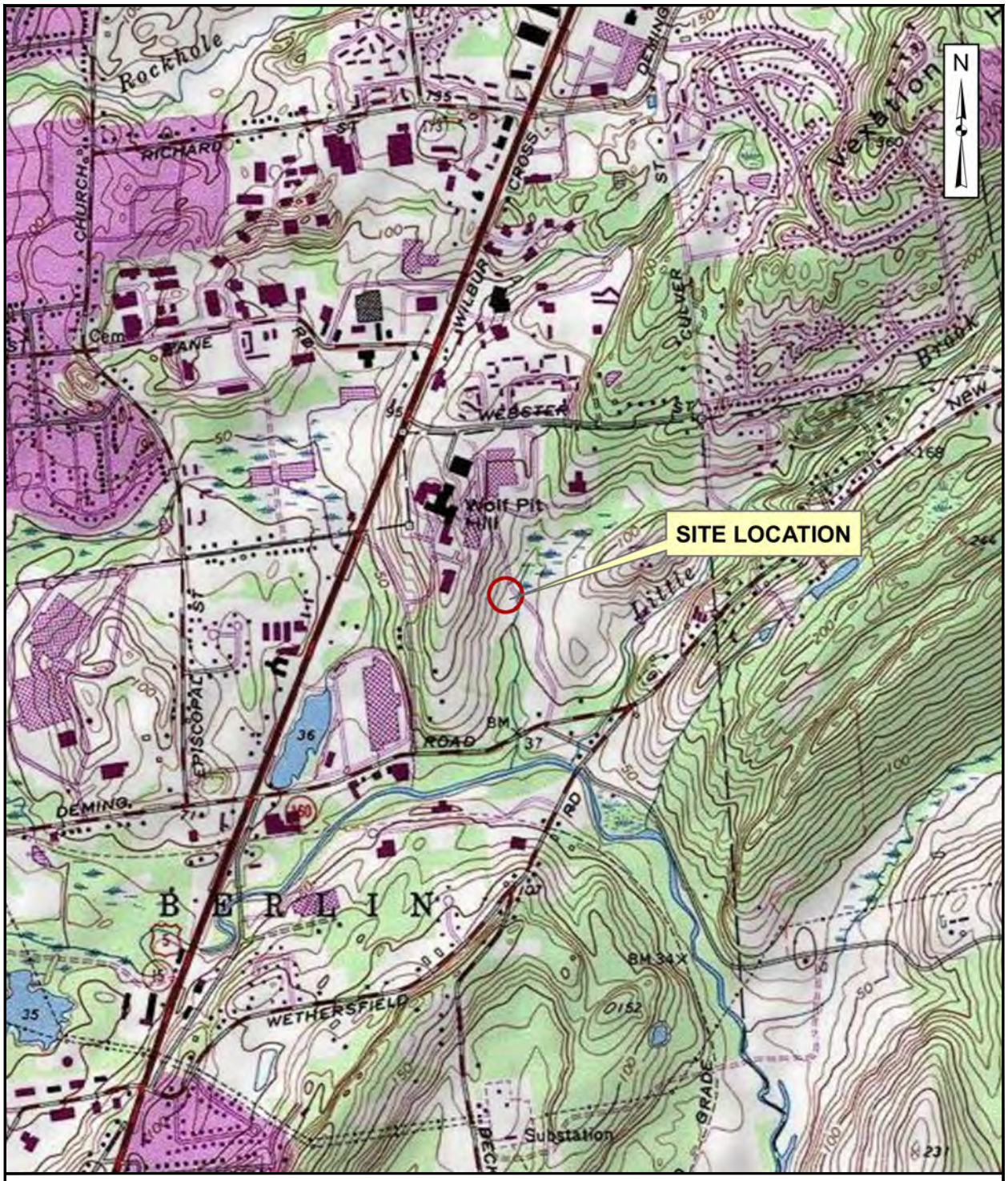

FIGURE 1
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND
LOCUS MAP
SCALE: 1"=2000'

0 2000 4000

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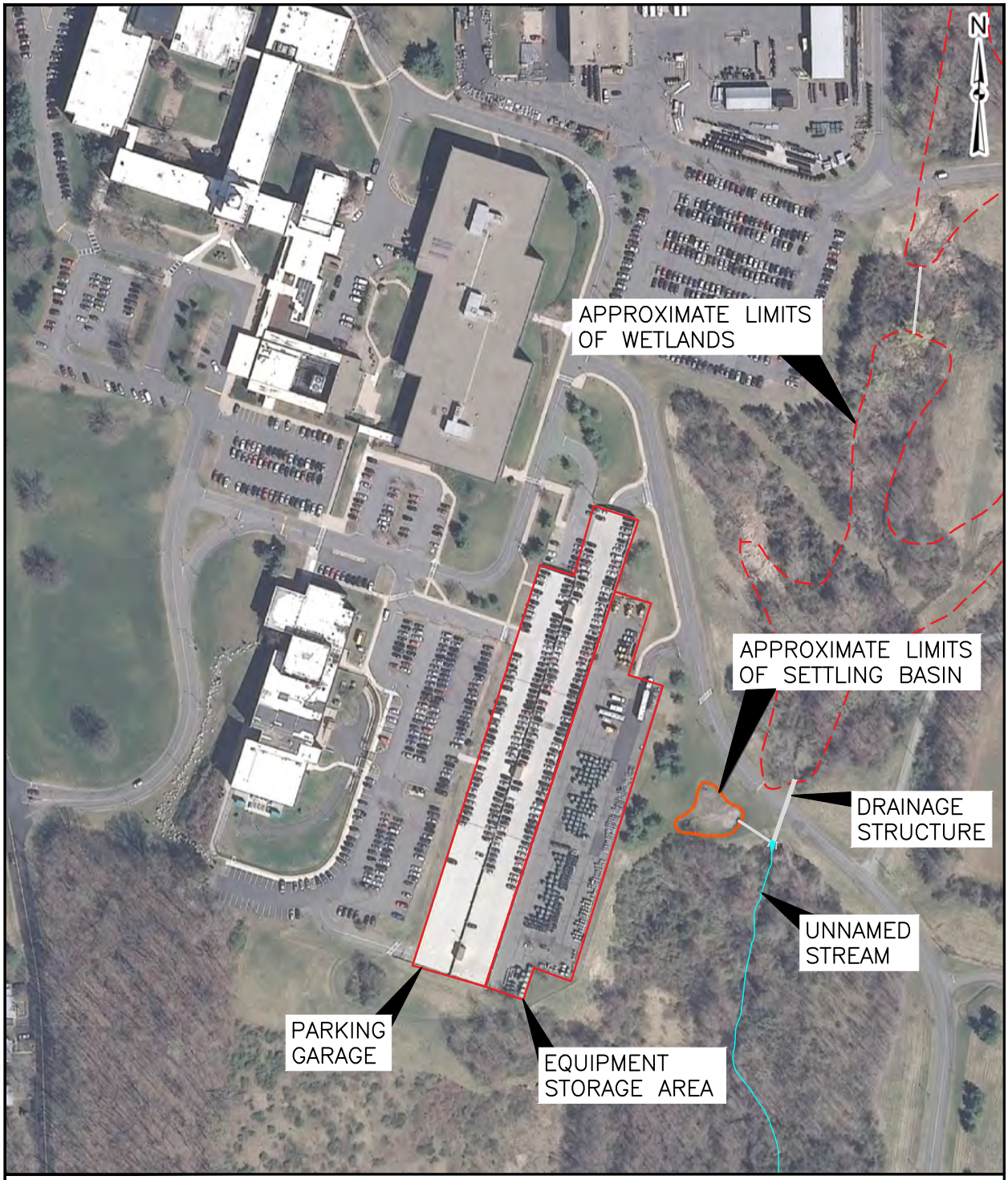

FIGURE 2
REMEDIAL ACTION PLAN
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND

NOTE: WETLAND BOUNDARIES WERE SOURCED FROM THE TOWN OF BERLIN, CT ONLINE GIS DATABASE

AERIAL SITE PLAN
SCALE: 1"=250'
0 250 500

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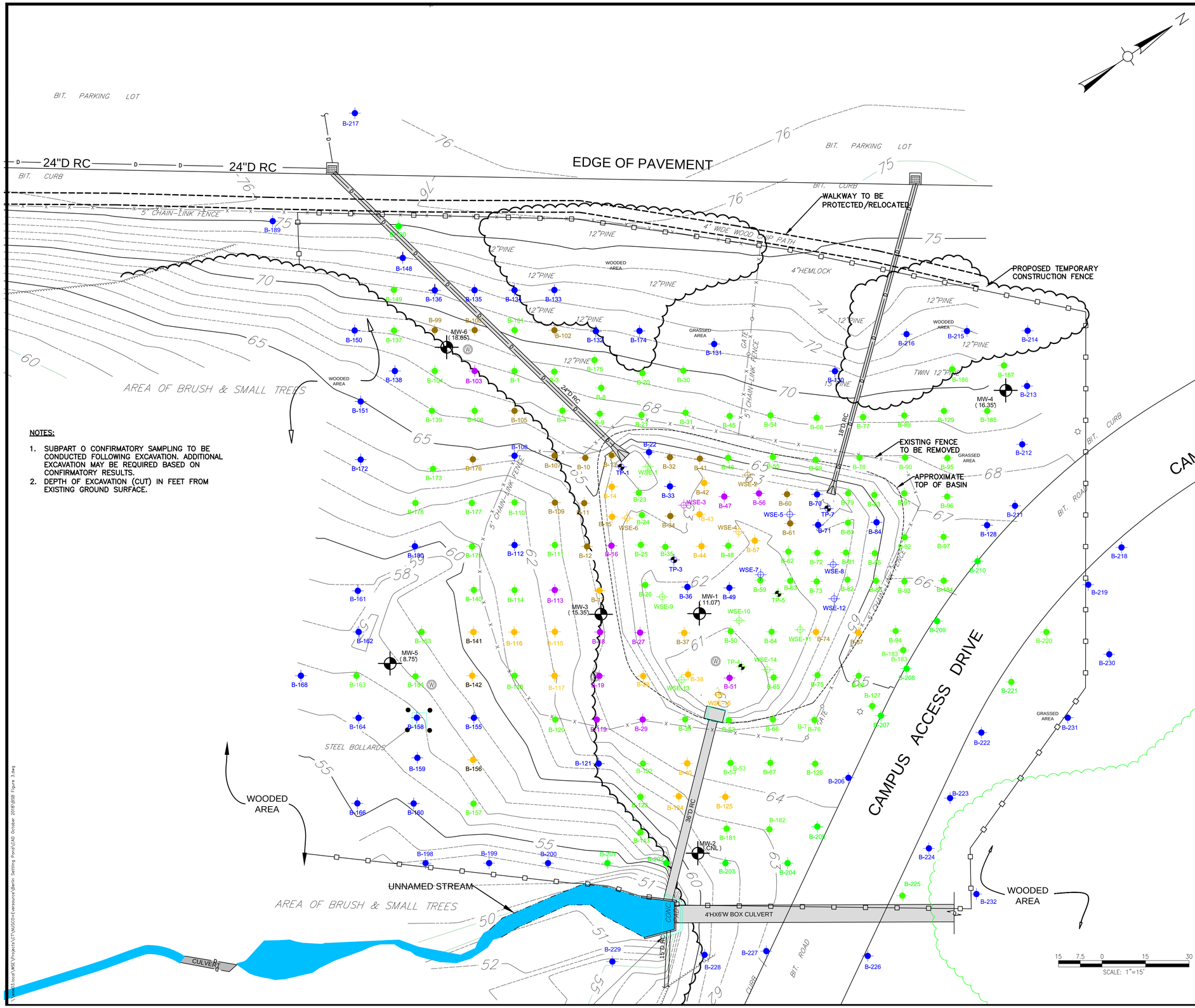




VICINITY MAP

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.

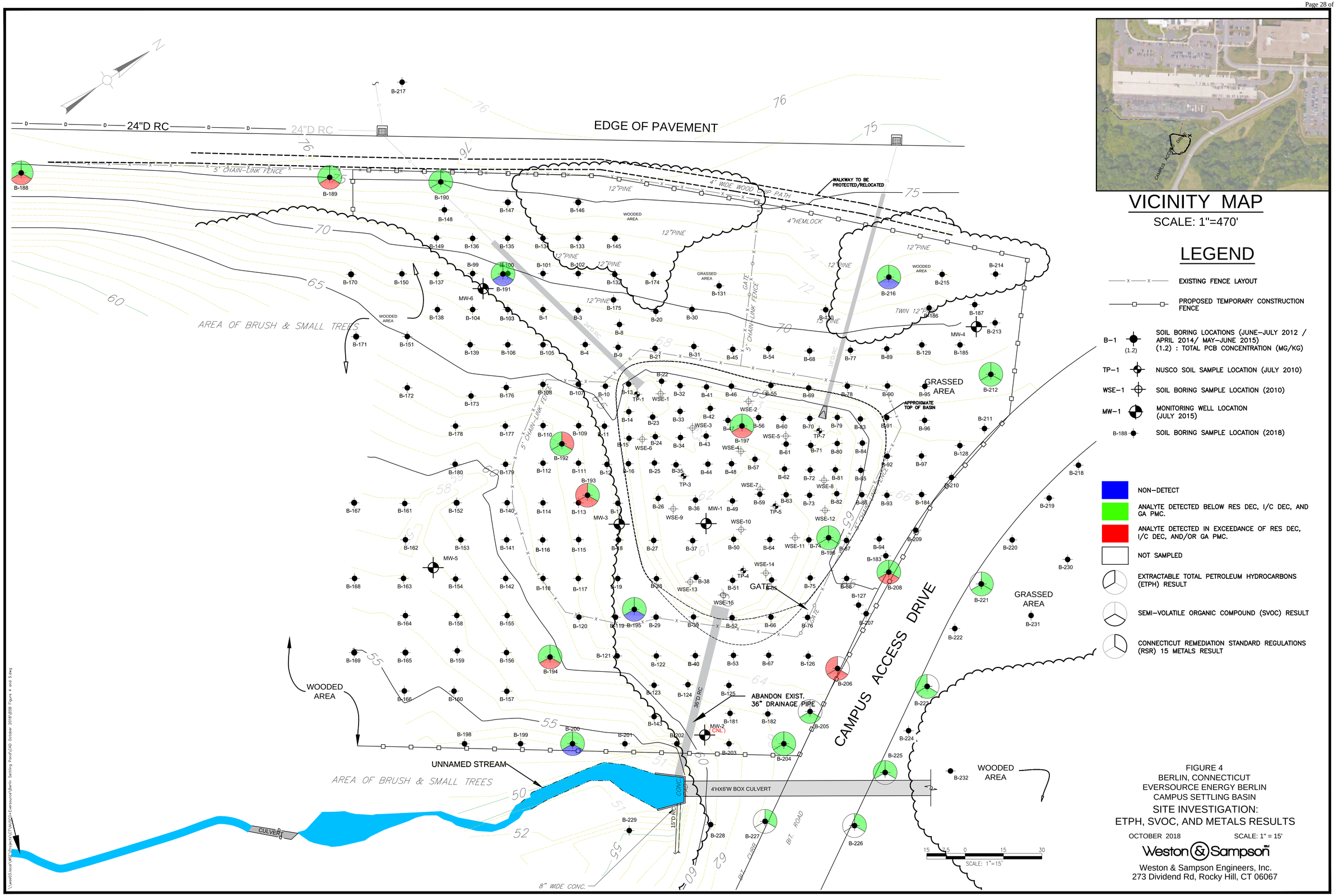
15 7.5 0 15 30
SCALE: 1"=15'

FIGURE 3
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN
SITE INVESTIGATION PCB RESULTS

OCTOBER 2018 SCALE: 1" = 15'

Weston & Sampson

I:\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Berlin Setting Pond\CAD October 2018\BSB Figure 3.dwg



VICINITY MAP

SCALE: 1"=470'

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)
- NON–DETECT
- ANALYTE DETECTED BELOW RES DEC, I/C DEC, AND GA PMC.
- ANALYTE DETECTED IN EXCEEDANCE OF RES DEC, I/C DEC, AND/OR GA PMC.
- NOT SAMPLED
- EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS (ETPH) RESULT
- SEMI–VOLATILE ORGANIC COMPOUND (SVOC) RESULT
- CONNECTICUT REMEDIATION STANDARD REGULATIONS (RSR) 15 METALS RESULT

FIGURE 4
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN
SITE INVESTIGATION:
ETPH, SVOC, AND METALS RESULTS

OCTOBER 2018 SCALE: 1" = 15'

Weston & Sampson

Weston & Sampson Engineers, Inc.
273 Dividend Rd, Rocky Hill, CT 06067

\\wes03.local\WES\Projects\EVS\0004-Eversource\Berlin Settling Pond\CAD October 2018\BSB Figure 4 and 5.dwg



VICINITY MAP

SCALE: 1"=470'

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 (CNL): SOIL BORING SAMPLE LOCATION (2018); MONITORING WELL COULD NOT BE LOCATED DURING 2017 GROUNDWATER SAMPLING EVENT

- NON–DETECT
- ANALYTE DETECTED BELOW I/C VOL, GWPC, AND SWPC.
- ANALYTE DETECTED IN EXCEEDANCE OF I/C VOL, GWPC, AND/OR SWPC.
- VOLATILE ORGANIC COMPOUND (VOC) RESULT
- SEMI–VOLATILE ORGANIC COMPOUND (SVOC) RESULT
- POLYCHLORINATED BIPHENYL (PCB) RESULT
- CONNECTICUT REMEDIATION STANDARD REGULATIONS (RSR) 15 METALS RESULT
- EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS RESULT

NOTE:

METALS CONCENTRATIONS AT MW–1 AND MW–3 EXCEED RES VOL. METALS CONCENTRATION AT MW–6 EXCEED SWPC.

FIGURE 5
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN

GROUNDWATER SAMPLING RESULTS

OCTOBER 2018 SCALE: 1" = 15'

Weston & Sampson
Weston & Sampson Engineers, Inc.
273 Dividend Rd, Rocky Hill, CT 06067

E:\Users\bonenti\Upgrade\Xrefs\APJobs_AS2018\BB Figure 4 and 5.dwg

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

5' CHAIN-LINK FENCE

4' WIDE WOOD CHIP PATH

WALKWAY TO BE PROTECTED/RELOCATED

PROPOSED TEMPORARY CONSTRUCTION FENCE

EXISTING FENCE TO BE REMOVED

APPROXIMATE TOP OF BASIN

GATE

CAMPUS ACCESS DRIVE

STEEL BOLLARDS

AREA OF BRUSH & SMALL TREES

WOODED AREA

GRASSED AREA

UNNAMED STREAM

CULVERT

4'HX6'W BOX CULVERT

15"D RC

36"D RC

18"D RC

12"PINE

4"HEMLOCK

TWIN 12"PINE

MW-1 (11.07)
MW-2 (NM)
MW-3 (5.55)
MW-4 (16.35)
MW-5 (8.76)
MW-6 (18.65)

TP-1
TP-3
TP-4
TP-5
TP-7

WSE-1
WSE-2
WSE-3
WSE-4
WSE-5
WSE-6
WSE-7
WSE-8
WSE-9
WSE-10
WSE-12
WSE-13
WSE-14

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

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.



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
- < 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

SCALE: 1"=15'

PRIVILEGED AND CONFIDENTIAL
ATTORNEY-CLIENT WORK PRODUCT

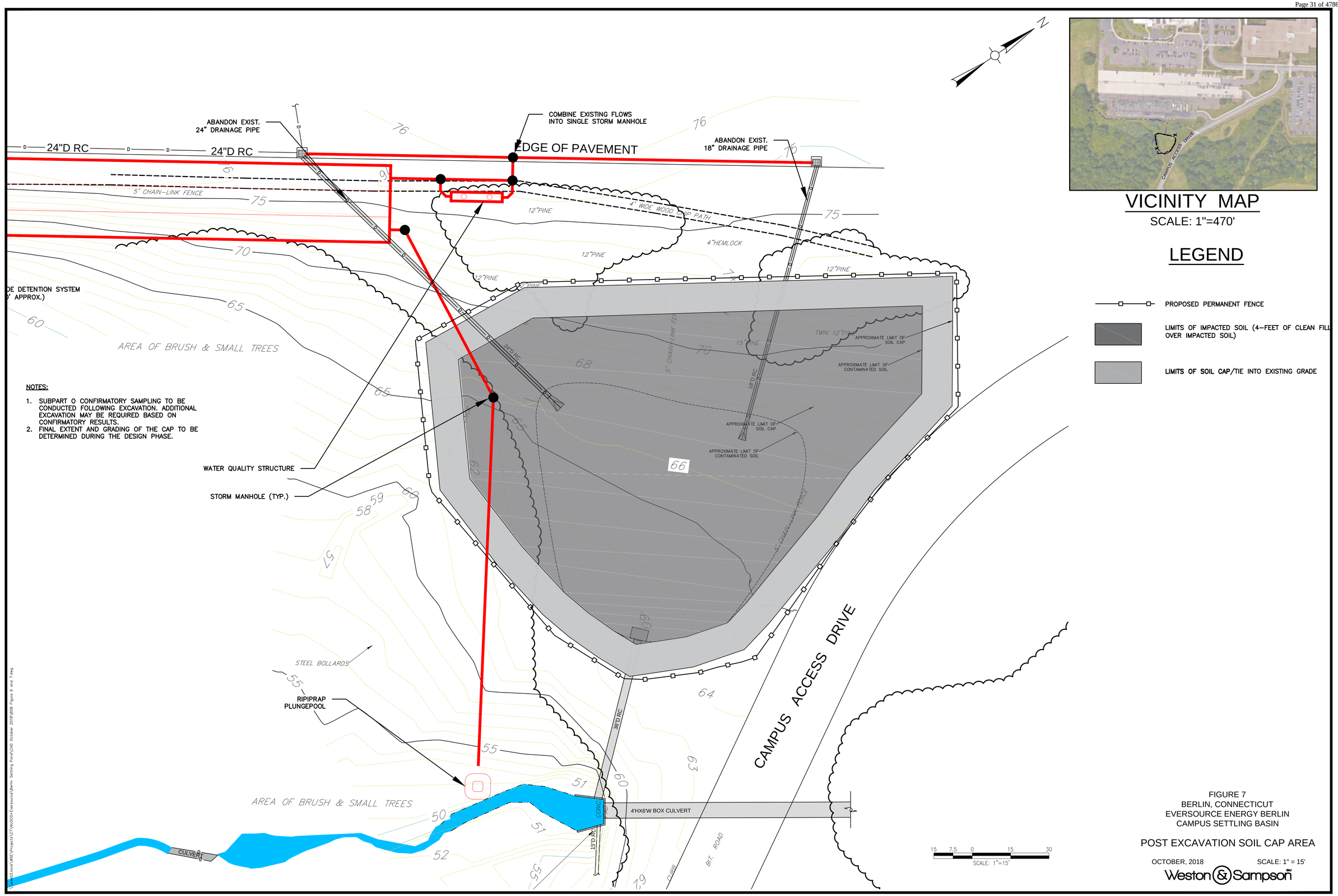
FIGURE 6
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN

SOIL EXCAVATION AREAS

OCTOBER, 2018 SCALE: 1" = 15'

Weston & Sampson

\\wsandd.local\WSE\Projects\CT\VA0520-Eversource\Berlin Settling Pond\CAD October 2018\BSB Figure 6 and 7.dwg



VICINITY MAP

SCALE: 1"=470'

LEGEND

- PROPOSED PERMANENT FENCE
- LIMITS OF IMPACTED SOIL (4-FEET OF CLEAN FILL OVER IMPACTED SOIL)
- LIMITS OF SOIL CAP/TIE INTO EXISTING GRADE

FIGURE 7
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN

POST EXCAVATION SOIL CAP AREA

OCTOBER, 2018 SCALE: 1" = 15'

Weston & Sampson

\\nas03.local\WES\Projects\CT\WU0024-Eversource\Berlin Settling Pond\CAD October 2018\WSB Figure 6 and 7.dwg

TABLES

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-188A	B-188B	B-188C	B-188D	DUP-7/Duplicate of B-188D	B-188E	B-188F	B-189A	B-189B	B-189C	B-189D	B-189E	B-190A	DUP-5/Duplicate B-190A	B-190B	B-190C	B-190D	B-190E
SAMPLE DEPTH (ft bgs)				0.0-0.5	3.0-4.0	7.0-8.0	10.0-11.0		13.0-15.0	12.0-13.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0	0.0-0.5		3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0
DATE SAMPLED				1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC [3]	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655/18B0004	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1221	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1232	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1242	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1248	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1254	NE	NE	NE	**0.14**	**0.13**	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1260	NE	NE	NE	**0.49**	**0.45**	<0.090			<0.097		**0.58**	**0.36**	<0.093	<0.098		**0.16**	**0.097**	<0.090	**0.11**	**1.5**	
PCB 1262	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB 1268	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
Total PCBs	1	10	NE	**0.63**	**0.58**	<0.090			<0.097		**0.58**	**0.36**	<0.093	<0.098		**0.16**	**0.097**	<0.090	**0.11**	**1.5**	
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS						BDL					BDL						BDL	
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	**0.24**					<0.21	<0.19	**0.27**			<0.21		<0.20	<0.20			<0.19	
Anthracene	1,000	2,500	40	**0.38**					<0.21	<0.19	**0.43**			<0.21		<0.20	<0.20			<0.19	
Benzo(a)anthracene	1	7.8	1	**1.20**					<0.21	**0.23**	**1.2**			<0.21		<0.20	<0.20			<0.19	
Benzo(a)pyrene	1	1	1	**1.20**					<0.21	<0.19	**1.1**			<0.21		<0.20	<0.20			<0.19	
Benzo(b)fluoranthene	1	7.8	1	**1.60**					<0.21	**0.25**	**1.5**			<0.21		**0.23**	<0.20			<0.19	
Benzo(g,h,i)perylene	8.4	78	1	**0.67**					<0.21	<0.19	**0.58**			<0.21		<0.20	<0.20			<0.19	
Benzo(k)fluoranthene	8.4	78	1	**0.64**					<0.21	<0.19	**0.54**			<0.21		<0.20	<0.20			<0.19	
Carbazole	31	290	0.2	<0.20					<0.21	<0.20	<0.20			<0.21		<0.20	<0.20			<0.19	
Chrysene	84	780	1	**1.20**					<0.21	**0.22**	**1.1**			<0.21		<0.20	<0.20			<0.19	
Dibenz(a,h)anthracene	1	1	1	<0.20					<0.21	<0.19	<0.20			<0.21		<0.20	<0.20			<0.19	
Fluoranthene	1,000	2,500	5.6	**2.70**					<0.21	**0.54**	**2.7**			<0.21		**0.29**	<0.20			<0.19	
Fluorene	1,000	2,500	5.6	<0.20					<0.21	<0.19	<0.20			<0.21		<0.20	<0.20			<0.19	
Indeno(1,2,3-cd)pyrene	1	7.8	1	**0.72**					<0.21	<0.19	**0.6**			<0.21		<0.20	<0.20			<0.19	
Naphthalene	1,000	2,500	5.6	<0.20					<0.21	<0.19	<0.20			<0.21		<0.20	<0.20			<0.19	
Phenanthrene	1,000	2,500	4	**1.50**					<0.21	**0.61**	**1.6**			<0.21		<0.20	<0.20			<0.19	
Pyrene	1,000	2,500	4	**2.30**					<0.21	**0.45**	**2.2**			<0.21		**0.24**	<0.20			<0.19	
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500	**120**					**53**	**200**	**36**			<12		**46**	**48**			**12**	
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE	<2.00			<2.0	**2.3**	<2.0		<2.0			<2.0	<1.8	<1.9	**3.3**			<1.9	**3.3**
Arsenic	10	10	NE	<2.00			<2.0	<1.9	<2.0		<2.0			<2.0	<1.8	<1.9	<2.0			<1.9	<1.9
Barium	4,700	140,000	NE	**73.0**			**86**	**75**	**120**		**90**			**43**	**64**	**47**	**130**			**72**	**100**
Beryllium	2	2	NE	<0.20			**0.28**	**0.30**	**0.30**		**0.31**			<0.20	**0.32**	<0.19	**0.38**			**0.21**	**0.50**
Cadmium	34	1,000	NE	**0.40**			<0.20	<0.19	**0.34**		**0.21**			<0.20	<0.18	**0.65**	<0.20			<0.19	**0.30**
Chromium	NE	NE	NE	**14**			**21**	**21**	**20**		**20**			**13**	**21**	**13**	**24**			**24**	**23**
Copper	2,500	76,000	NE	**27**			**29**	**32**	**28**		**32**			**23**	**43**	**17**	**27**			**34**	**57**
Lead	400	1,000	NE	**19**			**11**	**11**	**87**		**19**			**7.0**	**9.2**	**17**	**11**			**16**	**11**
Mercury	20	610	NE	<0.029			<0.029	<0.028	**0.068**		<0.030			<0.031	<0.028	<0.031	<0.030			**0.030**	<0.027
Nickel	1,400	7,500	NE	**12**			**18**	**18**	**17**		**18**			**11**	**19**	**9.8**	**22**			**22**	**22**
Silver	340	10,000	NE	<0.39			<0.39	<0.37	<0.400		<0.39			<0.41	<0.37	<0.39	<0.40			<0.38	<0.37
Vanadium	470	14,000	NE	**33**			**37**	**30**	**42**		**45**			**22**	**42**	**25**	**37**			**41**	**41**
Zinc	20,000	610,000	NE	**59**			**45**	**46**	**97**		**65**			**24**	**47**	**58**	**51**			**62**	**62**
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50								<2.0										
Barium	NE	NE	1000								**1500**										
Beryllium	NE	NE	4								**7.3**										
Cadmium	NE	NE	5								**4**										
Copper	NE	NE	1300								**150**										
Lead	NE	NE	15								**6.6**										
Zinc	NE	NE	5000								**170**										
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002								<0.00010										
Total Solids (%)	NE	NE	NE	**84.2**	**85.4**	**88.5**	**85.3**	**87.4**	**82.1**	**88.4**	**85.2**	**85.5**	**86.5**	**81.9**	**90.6**	**84.1**	**83.8**	**88.9**	**83.9**	**87.4**	**90.3**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-191A	B-191B	DUP-3/Duplicate of B-191B	B-191C	DUP-4/Duplicate of B-191C	B-192A	B-192B	B-192C	B-193A	B-193B	B-193C	B-194A	B-194B	B-194C	B-195A	B-195B	B-195C	B-196A
SAMPLE DEPTH (ft bgs)				0.0-0.5	10.0-12.0		13.0-14.0		0-0.5	10.0-12.0	13.0-14.0	0-0.5	10.0-12.0	13.0-14.0	0.0-0.5	10.0-12.0	13.0-14.0	0-0.5	10.0-12.0	13.0-14.0	0-0.5
DATE SAMPLED				1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/19/18	1/19/18	1/19/18	1/18/18	1/18/18	1/18/18	1/18/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC[3]	18A0655/18B0004	18A0655	18A0655	18A0655	18A0655	180552	180552/18B0002	180552	180552/18B0002	180552	180552	18A0655	18A0655	18A0655	180552	180552	180552	180552
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--																		
PCB-1221	--	--	--																		
PCB-1232	--	--	--																		
PCB-1242	--	--	--																		
PCB-1248	--	--	--																		
PCB-1254	NE	NE	NE																		
PCB-1260	NE	NE	NE																		
PCB 1262	--	--	--																		
PCB 1268	--	--	--																		
Total PCBs	1	10	NE																		
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS		BDL	BDL				BDL			BDL			BDL			BDL		
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	<0.20	<0.19	<0.19			<0.24	<0.21		**0.44**	<0.19		**0.59**	<0.20		<0.23	<0.20		<0.20
Anthracene	1,000	2,500	40	<0.20	<0.19	<0.19			<0.24	<0.21		**0.59**	<0.19		**1.0**	<0.20		<0.23	<0.20		<0.20
Benzo(a)anthracene	1	7.8	1	<0.20	<0.19	<0.19			**0.35**	<0.21		**0.91**	<0.19		**3.1**	<0.20		<0.23	<0.20		**0.27**
Benzo(a)pyrene	1	1	1	<0.20	<0.19	<0.19			**0.34**	<0.21		**0.81**	<0.19		**2.9**	<0.20		<0.23	<0.20		**0.29**
Benzo(b)fluoranthene	1	7.8	1	<0.20	<0.19	<0.19			**0.53**	<0.21		**1.0**	<0.19		**3.9**	<0.20		<0.23	<0.20		**0.38**
Benzo(g,h,i)perylene	8.4	78	1	<0.20	<0.19	<0.19			<0.24	<0.21		**0.48**	<0.19		**2**	<0.20		<0.23	<0.20		**0.20**
Benzo(k)fluoranthene	8.4	78	1	<0.20	<0.19	<0.19			<0.24	<0.21		**0.39**	<0.19		**1.5**	<0.20		<0.23	<0.20		<0.20
Carbazole	31	290	0.2	<0.20	<0.19	<0.19			<0.24	<0.21		**0.27**	<0.19		**0.58**	<0.20		<0.23	<0.20		<0.20
Chrysene	84	780	1	<0.20	<0.19	<0.19			**0.38**	<0.21		**0.88**	<0.19		**3.2**	<0.20		<0.23	<0.20		**0.28**
Dibenz(a,h)anthracene	1	1	1	<0.20	<0.19	<0.19			<0.24	<0.21		<0.21	<0.19		**0.47**	<0.20		<0.23	<0.20		<0.20
Fluoranthene	1,000	2,500	5.6	<0.20	<0.19	<0.19			**0.69**	<0.21		**2.1**	<0.19		**6.7**	<0.20		<0.23	<0.20		**0.56**
Fluorene	1,000	2,500	5.6	<0.20	<0.19	<0.19			<0.24	<0.21		**0.33**	<0.19		**0.46**	<0.20		<0.23	<0.20		<0.20
Indeno(1,2,3-cd)pyrene	1	7.8	1	<0.20	<0.19	<0.19			**0.24**	<0.21		**0.55**	<0.19		**2.2**	<0.20		<0.23	<0.20		**0.21**
Naphthalene	1,000	2,500	5.6	<0.20	<0.19	<0.19			<0.24	<0.21		**0.57**	<0.19		<0.41	<0.20		<0.23	<0.20		<0.20
Phenanthrene	1,000	2,500	4	<0.20	<0.19	<0.19			**0.34**	<0.21		**2.1**	<0.19		**4.8**	<0.20		<0.23	<0.20		**0.26**
Pyrene	1,000	2,500	4	<0.20	<0.19	<0.19			**0.69**	<0.21		**1.8**	<0.19		**5.6**	<0.20		<0.23	<0.20		**0.45**
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500	**21**	<11	<11			**89**	<12		**550**	<11		**190**	<12		**25**	<12		**43**
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]									**0.16**									
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE	<1.9	<1.9		<1.8	**2.5**	<2.3	<2.1	<1.9	<2.1	<1.8	<1.9	<2.0	<2.0	<1.9	<2.2	<1.9	<1.9	<1.9
Arsenic	10	10	NE	<1.9	<1.9		<1.8	<1.8	**4.0**	**11**	**67**	<2.1	<1.8	<1.9	<2.0	<2.0	<1.9	<2.2	<1.9	<1.9	<1.9
Barium	4,700	140,000	NE	**120**	**82**		**81**	**80**	**99**	**57**	**120**	**85**	**86**	**89**	**65**	**100**	**110**	**88**	**140**	**22**	**78**
Beryllium	2	2	NE	**0.39**	**0.43**		**0.42**	**0.34**	**0.51**	<0.21	**0.27**	**0.38**	<0.18	**0.44**	<0.20	**0.23**	**0.53**	**0.45**	**0.52**	<0.19	**0.35**
Cadmium	34	1,000	NE	<0.19	<0.19		<0.18	**0.23**	**0.56**	**0.35**	**1.4**	<0.21	**0.20**	**0.20**	**0.59**	<0.20	**0.20**	**0.22**	**0.22**	<0.19	<0.19
Chromium	NE	NE	NE	**23**	**20**		**19**	**20**	**16**	**17**	**15**	**16**	**19**	**25**	**19**	**20**	**22**	**18**	**20**	**6.1**	**17**
Copper	2,500	76,000	NE	**36**	**36**		**47**	**36**	**36**	**32**	**35**	**26**	**32**	**70**	**28**	**43**	**33**	**26**	**43**	**17**	**32**
Lead	400	1,000	NE	**12**	**10**		**10**	**9.4**	**23**	**18**	**64**	**15**	**8.9**	**9.7**	**52**	**11**	**11**	**15**	**8.8**	**3.1**	**13**
Mercury	20	610	NE	<0.028	<0.027		<0.029	<0.027	**0.049**	<0.030	<0.029	**0.039**	**0.060**	<0.029	**0.085**	<0.03	<0.028	**0.037**	<0.029	<0.028	<0.030
Nickel	1,400	7,500	NE	**21**	**19**		**19**	**19**	**19**	**23**	**27**	**16**	**22**	**26**	**13**	**18**	**20**	**19**	**22**	**8.3**	**19**
Silver	340	10,000	NE	<0.39	<0.37		<0.36	<0.36	<0.46	**1.6**	**0.69**	<0.42	**1.6**	<0.38	<0.40	<0.39	<0.38	<0.44	<0.39	<0.37	<0.38
Vanadium	470	14,000	NE	**38**	**35**		**34**	**31**	**37**	**26**	**30**	**30**	**42**	**37**	**32**	**36**	**41**	**31**	**35**	**9.1**	**30**
Zinc	20,000	610,000	NE	**53**	**50**		**49**	**45**	**59**	**51**	**53**	**51**	**64**	**67**	**60**	**48**	**56**	**57**	**53**	**21**	**48**
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50	<2.0						**5.6**											
Barium	NE	NE	1000	**140**						<50											
Beryllium	NE	NE	4	<2.0						<2.0											
Cadmium	NE	NE	5	<2.5						<2.5											
Copper	NE	NE	1300	<25						<25											
Lead	NE	NE	15	<5.0						<5.0											
Zinc	NE	NE	5000	<50						<50											
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002	<0.00010						<0.00010											
Total Solids (%)	NE	NE	NE	**86.1**	**89.7**	**89.5**	**90.8**	**90.5**	**70.7**	**81.2**	**87.8**	**79.2**	**90.4**	**88.8**	**83.7**	**84.9**	**87.8**	**73.6**	**84.5**	**88.8**	**85.2**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
= Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-196B	B-196C	B-197A	B-197B	B-197C	B-198A	B-198B	DUP-6/Duplicate of B-198B	B-198C	B-199A	B-199B	B-199C	B-200A	B-200B	B-200C	B-200D	B-200E	B-201A
SAMPLE DEPTH (ft bgs)				9.0-11.0	13.0-14.0	0-0.5	10.0-12.0	13.0-14.0	0.0-0.5	3.0-4.0	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0	5.0-7.0	7.0-8.0	13.0-14.0	0-0.5
DATE SAMPLED				1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/18/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC[3]	180552	180552	180552/18B0002	180552	180552	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	180552/18B0002
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1221	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1232	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1242	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1248	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1254	NE	NE	NE						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1260	NE	NE	NE						**0.12**	<0.093	<0.089	<0.11	**0.13**	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		**2.5**
PCB 1262	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB 1268	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
Total PCBs	1	10	NE						**0.12**	<0.093	<0.089	<0.11	**0.13**	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		**2.5**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		**0.62**
Total PCBs	NE	NE	0.5																		**0.62**
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS	BDL			BDL											BDL			
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	<0.19		**0.75**	<0.19									<0.23		<0.21			
Anthracene	1,000	2,500	40	<0.19		**1.3**	<0.19									<0.23		<0.21			
Benzo(a)anthracene	1	7.8	1	<0.19		**3.3**	<0.19									<0.23		<0.21			
Benzo(a)pyrene	1	1	1	<0.19		**3.0**	<0.19									<0.23		<0.21			
Benzo(b)fluoranthene	1	7.8	1	<0.19		**3.8**	<0.19									<0.23		<0.21			
Benzo(g,h,i)perylene	8.4	78	1	<0.19		**1.7**	<0.19									<0.23		<0.21			
Benzo(k)fluoranthene	8.4	78	1	<0.19		**1.5**	<0.19									<0.23		<0.21			
Carbazole	31	290	0.2	<0.19		**0.49**	<0.19									<0.23		<0.21			
Chrysene	84	780	1	<0.19		**3.2**	<0.19									<0.23		<0.21			
Dibenz(a,h)anthracene	1	1	1	<0.19		**0.43**	<0.19									<0.23		<0.21			
Fluoranthene	1,000	2,500	5.6	<0.19		**7.1**	<0.19									<0.23		<0.21			
Fluorene	1,000	2,500	5.6	<0.19		**0.53**	<0.19									<0.23		<0.21			
Indeno(1,2,3-cd)pyrene	1	7.8	1	<0.19		**1.9**	<0.19									<0.23		<0.21			
Naphthalene	1,000	2,500	5.6	<0.19		<0.43	<0.19									<0.23		<0.21			
Phenanthrene	1,000	2,500	4	<0.19		**4.5**	<0.19									<0.23		<0.21			
Pyrene	1,000	2,500	4	<0.19		**6.3**	<0.19									<0.23		<0.21			
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4			<0.30															
Anthracene	NE	NE	40			<0.20															
Benzo(a)anthracene	NE	NE	1			<0.050															
Benzo(a)pyrene	NE	NE	1			<0.10															
Benzo(b)fluoranthene	NE	NE	1			<0.050															
Benzo(g,h,i)perylene	NE	NE	1			<0.50															
Benzo(k)fluoranthene	NE	NE	1			<0.20															
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1			<0.20															
Dibenz(a,h)anthracene	NE	NE	1			<0.20															
Fluoranthene	NE	NE	5.6			<0.50															
Fluorene	NE	NE	5.6			<1.0															
Indeno(1,2,3-cd)pyrene	NE	NE	1			<0.20															
Naphthalene	NE	NE	5.6			<1.0															
Phenanthrene	NE	NE	4			**0.1**															
Pyrene	NE	NE	4			<1.0															
ETPH by CT Method (mg/kg)	500	2,500	500	<11		**150**	<11									**74**		<12			
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE	<1.9	<1.8	<2.1	<1.9	<1.8								<2.2		<2.0		<1.9	
Arsenic	10	10	NE	<1.9	<1.8	<2.1	**9.4**	<1.8								<2.2		<2.0		<1.9	
Barium	4,700	140,000	NE	**270**	**92**	**100**	**87**	**100**								**100**		**81**		**110**	
Beryllium	2	2	NE	**0.43**	**0.41**	**0.44**	**0.30**	**0.60**								**0.48**		**0.36**		**0.35**	
Cadmium	34	1,000	NE	**0.25**	<0.18	**0.22**	**0.64**	**0.20**								<0.22		<0.20		<0.19	
Chromium	NE	NE	NE	**20**	**15**	**18**	**20**	**23**								**15**		**15**		**22**	
Copper	2,500	76,000	NE	**41**	**32**	**27**	**43**	**33**								**19**		**40**		**49**	
Lead	400	1,000	NE	**9.8**	**7.3**	**19**	**6.7**	**10**								**23**		**9.0**		**11**	
Mercury	20	610	NE	<0.028	<0.029	**0.032**	<0.030	<0.028								**0.0400**		<0.030		<0.028	
Nickel	1,400	7,500	NE	**22**	**17**	**19**	**21**	**30**								**13**		**16**		**25**	
Silver	340	10,000	NE	<0.37	<0.37	<0.42	<0.38	**1.6**								<0.44		<0.40		<0.38	
Vanadium	470	14,000	NE	**30**	**29**	**31**	**37**	**28**								**40**		**27**		**40**	
Zinc	20,000	610,000	NE	**52**	**53**	**57**	**59**	**85**								**64**		**47**		**60**	
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	4																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**88.7**	**89.3**	**78.7**	**87.2**	**88.4**	**69.1**	**86**	**85.3**	**75.9**	**71.5**	**88.2**	**81.7**	**75.2**	**83.2**	**81.9**	**87.7**	**88.4**	**70.3**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-201B	B-201C	B-202A	B-202B	B-202C	B-203A	B-203B	B-203C	B-204A	B-204B	B-204C	B-204D	B-204E	B-205A	B-205B	B-205C	B-206A	B-206B
SAMPLE DEPTH (ft bgs)				3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0	0.0-0.5	4.0-5.0	7.0-8.0	0.0-0.5	3.0-4.0
DATE SAMPLED				1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC[3]	180552	180552	180552	180552/18B0002	180552/18B0002	180552	180552	180552	180552	180552	180552	180552	180552	18A0552	18A0552	18A0552	18A0552	18A0552/18B0001
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1221	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1232	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1242	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1248	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1254	NE	NE	NE	<0.086	<0.10	**0.9**	**1.5**	**2.1**	**0.28**	**1.2**	<0.087	<0.099	**0.50**	<0.086	<0.088		<0.094	**0.42**	<0.086	<0.10	<0.085
PCB-1260	NE	NE	NE	**0.16**	<0.10	**2.6**	**4.0**	**5.0**	**1.1**	**2.7**	**0.39**	**0.60**	**1.4**	<0.086	<0.088		**1.0**	**0.78**	**0.33**	**0.98**	**0.21**
PCB 1262	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB 1268	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
Total PCBs	1	10	NE	**0.16**	<0.10	**3.5**	**5.5**	**7.1**	**1.38**	**3.9**	**0.39**	**0.60**	**1.9**	<0.086	<0.088		**1.0**	**1.20**	**0.33**	**0.98**	**0.21**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5				**1.4**	**1**													
Total PCBs	NE	NE	0.5				**1.4**	**1**													
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS												BDL						
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4									<0.21			<0.19			<0.19			**46**
Anthracene	1,000	2,500	40									<0.21			<0.19			<0.19			**65**
Benzo(a)anthracene	1	7.8	1									<0.21			<0.19			**0.19**			**100**
Benzo(a)pyrene	1	1	1									<0.21			<0.19			**0.20**			**89**
Benzo(b)fluoranthene	1	7.8	1									<0.21			<0.19			**0.24**			**110**
Benzo(g,h,i)perylene	8.4	78	1									<0.21			<0.19			<0.19			**40**
Benzo(k)fluoranthene	8.4	78	1									<0.21			<0.19			<0.19			**42**
Carbazole	31	290	0.2									<0.21			<0.19			<0.19			**27**
Chrysene	84	780	1									<0.21			<0.19			**0.19**			**96**
Dibenz(a,h)anthracene	1	1	1									<0.21			<0.19			<0.19			<19
Fluoranthene	1,000	2,500	5.6									**0.27**			<0.19			**0.41**			**240**
Fluorene	1,000	2,500	5.6									<0.21			<0.19			<0.19			**37**
Indeno(1,2,3-cd)pyrene	1	7.8	1									<0.21			<0.19			<0.19			**47**
Naphthalene	1,000	2,500	5.6									<0.21			<0.19			<0.19			**27**
Phenanthrene	1,000	2,500	4									<0.21			<0.19			<0.19			**230**
Pyrene	1,000	2,500	4									**0.25**			<0.19			**0.34**			**220**
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		**31**
Anthracene	NE	NE	40																		**11**
Benzo(a)anthracene	NE	NE	1																		**4.1**
Benzo(a)pyrene	NE	NE	1																		**3**
Benzo(b)fluoranthene	NE	NE	1																		**3.7**
Benzo(g,h,i)perylene	NE	NE	1																		<5.0
Benzo(k)fluoranthene	NE	NE	1																		<2.0
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		**4**
Dibenz(a,h)anthracene	NE	NE	1																		<2.0
Fluoranthene	NE	NE	5.6																		**19**
Fluorene	NE	NE	5.6																		**18**
Indeno(1,2,3-cd)pyrene	NE	NE	1																		**2**
Naphthalene	NE	NE	5.6																		<10
Phenanthrene	NE	NE	4																		**40**
Pyrene	NE	NE	4																		**17**
ETPH by CT Method (mg/kg)	500	2,500	500									**180**			**39**						**3700**
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		**0.61**
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE									<2.1			<1.9	<1.8					
Arsenic	10	10	NE									<2.1			<1.9	<1.8					
Barium	4,700	140,000	NE									**42**			**84**	**140**					
Beryllium	2	2	NE									<0.21			**0.38**	**0.42**					
Cadmium	34	1,000	NE									<0.21			<0.19	**0.25**					
Chromium	NE	NE	NE									**13**			**17**	**17**					
Copper	2,500	76,000	NE									**16**			**40**	**53**					
Lead	400	1,000	NE									**22**			**8.7**	**8.2**					
Mercury	20	610	NE									<0.032			<0.028	<0.027					
Nickel	1,400	7,500	NE									**9.4**			**18**	**21**					
Silver	340	10,000	NE									<0.42			<0.37	<0.36					
Vanadium	470	14,000	NE									**23**			**28**	**31**					
Zinc	20,000	610,000	NE									**36**			**44**	**57**					
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	4																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**92.0**	**76.0**	**76.8**	**88.8**	**81.7**	**84.2**	**86.2**	**90.3**	**79.4**	**85.1**	**92.1**	**88.7**	**89.8**	**82.7**	**89.3**	**91.6**	**77.3**	**91.0**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
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Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

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SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-206C	B-207A	B-207B	B-207C	B-208A	B-208B	B-208C	B-208D	B-208E	B-209A	B-209B	B-209C	B-210A	B-210B	DUP-2/Duplicate B-210B	B-210C	B-211A	B-211B
SAMPLE DEPTH (ft bgs)				7.0-8.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0		7.0-8.0	0-0.5	3.0-4.0
DATE SAMPLED				1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC[3]	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0554	18A0552	18A0554	18A0554
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1221	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1232	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1242	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1248	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1254	NE	NE	NE	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1260	NE	NE	NE	<0.092	**1.8**	<0.088	<0.091	**1.6**	**0.34**	<0.094	<0.098		**1.9**	**1.9**	<0.097	**1.2**	<0.088	<0.087	<0.091	**0.94**	**0.11**
PCB 1262	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB 1268	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
Total PCBs	1	10	NE	<0.092	**1.8**	<0.088	<0.091	**1.6**	**0.34**	<0.094	<0.098		**1.9**	**1.9**	<0.097	**1.2**	<0.088	<0.087	<0.091	**0.94**	**0.11**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS																		
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	**0.36**				<0.21			<0.21										
Anthracene	1,000	2,500	40	**0.49**				**0.35**			<0.21										
Benzo(a)anthracene	1	7.8	1	**0.76**				**1.0**			<0.21										
Benzo(a)pyrene	1	1	1	**0.64**				**0.99**			<0.21										
Benzo(b)fluoranthene	1	7.8	1	**0.76**				**1.3**			<0.21										
Benzo(g,h,i)perylene	8.4	78	1	**0.29**				**0.57**			<0.21										
Benzo(k)fluoranthene	8.4	78	1	**0.32**				**0.53**			<0.21										
Carbazole	31	290	0.2	**0.20**				<0.21			<0.21										
Chrysene	84	780	1	**0.73**				**1.0**			<0.21										
Dibenz(a,h)anthracene	1	1	1	<0.20				<0.21			<0.21										
Fluoranthene	1,000	2,500	5.6	**1.7**				**2.3**			<0.21										
Fluorene	1,000	2,500	5.6	**0.3**				<0.21			<0.21										
Indeno(1,2,3-cd)pyrene	1	7.8	1	**0.36**				**0.65**			<0.21										
Naphthalene	1,000	2,500	5.6	**0.25**				<0.21			<0.21										
Phenanthrene	1,000	2,500	4	**1.8**				**1.5**			<0.21										
Pyrene	1,000	2,500	4	**1.6**				**1.8**			<0.21										
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500	**300**				**87**			**14**										
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE					**2.3**			**2.5**	**2.8**									
Arsenic	10	10	NE					<2.0			<2.1	<2.0									
Barium	4,700	140,000	NE					**76**			**54**	**59**									
Beryllium	2	2	NE					**0.30**			<0.21	**0.28**									
Cadmium	34	1,000	NE					**0.35**			<0.21	<0.20									
Chromium	NE	NE	NE					**16**			**15**	**21**									
Copper	2,500	76,000	NE					**23**			**11**	**18**									
Lead	400	1,000	NE					**22**			**7.7**	**11**									
Mercury	20	610	NE					<0.031			<0.032	<0.031									
Nickel	1,400	7,500	NE					**15**			**10**	**17**									
Silver	340	10,000	NE					**0.65**			<0.41	**0.42**									
Vanadium	470	14,000	NE					**32**			**27**	**31**									
Zinc	20,000	610,000	NE					**50**			**27**	**49**									
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	4																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**84.9**	**74.6**	**91.3**	**87.8**	**80.8**	**88.3**	**82.3**	**80.7**	**83.9**	**80.9**	**87.1**	**79.8**	**76.1**	**91.3**	**91.3**	**86.2**	**76.5**	**90.5**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-211C	B-212A	B-212B	B-212C	B-212D	B-212E	B-213A	DUP-1 Duplicate of B-213A	B-213B	B-213C	B-214A	B-214B	B-214C	B-215A	B-215B	B-215C	B-216A	B-216B
SAMPLE DEPTH (ft bgs)				7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	12.0-13.0	0-0.5	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	8.0-9.0	0-1.0	3.0-4.0
DATE SAMPLED				1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC [3]	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554	18A0554
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB-1221	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB-1232	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB-1242	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB-1248	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB-1254	NE	NE	NE	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	**0.24**
PCB-1260	NE	NE	NE	<0.096	**0.37**	**0.32**	<0.092	<0.10		**0.22**	**0.26**	<0.11	<0.10	**0.86**	<0.097	<0.094	**0.22**	**0.22**	<0.097	**0.29**	**0.32**
PCB 1262	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB 1268	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
Total PCBs	1	10	NE	<0.096	**0.37**	**0.32**	<0.092	<0.10		**0.22**	**0.26**	<0.11	<0.10	**0.86**	<0.097	<0.094	**0.22**	**0.22**	<0.097	**0.29**	**0.56**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS					BDL													
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4		<0.21			<0.22												<0.20	
Anthracene	1,000	2,500	40		<0.21			<0.22												<0.20	
Benzo(a)anthracene	1	7.8	1		<0.21			<0.22												<0.20	
Benzo(a)pyrene	1	1	1		<0.21			<0.22												<0.20	
Benzo(b)fluoranthene	1	7.8	1		**0.21**			<0.22												<0.20	
Benzo(g,h,i)perylene	8.4	78	1		<0.21			<0.22												<0.20	
Benzo(k)fluoranthene	8.4	78	1		<0.21			<0.22												<0.20	
Carbazole	31	290	0.2		<0.21			<0.22												<0.20	
Chrysene	84	780	1		<0.21			<0.22												<0.20	
Dibenz(a,h)anthracene	1	1	1		<0.21			<0.22												<0.20	
Fluoranthene	1,000	2,500	5.6		**0.34**			<0.22												<0.20	
Fluorene	1,000	2,500	5.6		<0.21			<0.22												<0.20	
Indeno(1,2,3-cd)pyrene	1	7.8	1		<0.21			<0.22												<0.20	
Naphthalene	1,000	2,500	5.6		<0.21			<0.22												<0.20	
Phenanthrene	1,000	2,500	4		<0.21			<0.22												<0.20	
Pyrene	1,000	2,500	4		**0.35**			<0.22												<0.20	
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500		**58**			<13												**40**	
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE		<2.0			<2.1	<2.0											<1.9	
Arsenic	10	10	NE		<2.0			<2.1	<2.0											<1.9	
Barium	4,700	140,000	NE		**93**			**68**	**84**											**87**	
Beryllium	2	2	NE		<0.20			<0.21	<0.20											<0.19	
Cadmium	34	1,000	NE		<0.20			<0.21	<0.20											<0.19	
Chromium	NE	NE	NE		**16**			**20**	**17**											**17**	
Copper	2,500	76,000	NE		**26**			**60**	**26**											**27**	
Lead	400	1,000	NE		**20**			**12**	**8.3**											**12**	
Mercury	20	610	NE		<0.029			<0.032	<0.030											<0.030	
Nickel	1,400	7,500	NE		**13**			**23**	**16**											**17**	
Silver	340	10,000	NE		<0.80			<0.84	<0.79											<0.39	
Vanadium	470	14,000	NE		**40**			**30**	**33**											**29**	
Zinc	20,000	610,000	NE		**44**			**56**	**40**											**42**	
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	4																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**83.4**	**81.9**	**87.5**	**84.3**	**78.9**	**84.5**	**83.1**	**81.1**	**73.5**	**80.4**	**78.7**	**80.8**	**83.0**	**82.8**	**85.0**	**81.6**	**85.2**	**86.5**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-216C	B-216D	B-216E	B-217A	B-217B	B-217C	B-218A	Dup-1/Duplicate of B-218A	B-218B	B-219A	B-219B	B-220A	B-220B	B-221A	Dup-2/Duplicate of B-221A	B-221B	B-222A	Dup-3/Duplicate of B-222A
SAMPLE DEPTH (ft bgs)				7.0-8.0	10.0-12.0	13.0-14.0	0-0.5	7.0-8.0	10.0-12.0	0-0.5	0-0.5	3.0-4.0	0-0.5	3.0-4.0	0-0.5	3.0-4.0	0-1.0	0-1.0	3.0-4.0	0-0.5	0-0.5
DATE SAMPLED				1/17/18	1/17/18	1/17/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC [3]	18A0554	18A0554	18A0554	18C0362	18C0362	18C0363	18C0362	18C0363	18C0362	18C0362	18C0362	18C0362	18C0362	18C0362	18C0363	18C0362	18C0362	18C0363
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1221	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1232	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1242	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1248	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1254	NE	NE	NE	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	**0.43**
PCB-1260	NE	NE	NE	<0.087	<0.089		<0.089	<0.089	<0.093	**0.13**	<0.092	<0.089	<0.093	<0.089	<0.091	**3.1**	**0.22**		<0.087	**0.99**	**1.2**
PCB 1262	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB 1268	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
Total PCBs	1	10	NE	<0.087	<0.089		<0.089	<0.089	<0.093	**0.13**	<0.092	<0.089	<0.093	<0.089	<0.091	**3.1**	**0.22**		<0.087	**0.99**	**1.63**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS		BDL																
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4		<0.20												<0.20	<0.20			
Anthracene	1,000	2,500	40		<0.20												<0.20	<0.20			
Benzo(a)anthracene	1	7.8	1		<0.20												<0.20	**0.23**			
Benzo(a)pyrene	1	1	1		<0.20												<0.20	**0.27**			
Benzo(b)fluoranthene	1	7.8	1		<0.20												<0.20	**0.36**			
Benzo(g,h,i)perylene	8.4	78	1		<0.20												<0.20	**0.23**			
Benzo(k)fluoranthene	8.4	78	1		<0.20												<0.20	<0.20			
Carbazole	31	290	0.2		<0.20												<0.20	<0.20			
Chrysene	84	780	1		<0.20												<0.20	**0.28**			
Dibenz(a,h)anthracene	1	1	1		<0.20												<0.20	<0.20			
Fluoranthene	1,000	2,500	5.6		<0.20												**0.24**	**0.55**			
Fluorene	1,000	2,500	5.6		<0.20												<0.20	<0.20			
Indeno(1,2,3-cd)pyrene	1	7.8	1		<0.20												<0.20	**0.23**			
Naphthalene	1,000	2,500	5.6		<0.20												<0.20	<0.20			
Phenanthrene	1,000	2,500	4		<0.20												<0.20	**0.24**			
Pyrene	1,000	2,500	4		<0.20												**0.24**	**0.50**			
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500		<11																
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE		<1.9	**2.7**											<1.9				
Arsenic	10	10	NE		<1.9	<1.9											<1.9				
Barium	4,700	140,000	NE		**97**	**90**											**70**				
Beryllium	2	2	NE		<0.19	<0.19											**0.20**				
Cadmium	34	1,000	NE		<0.19	<0.19											**0.23**				
Chromium	NE	NE	NE		**20**	**23**											**14**				
Copper	2,500	76,000	NE		**90**	**88**											**27**				
Lead	400	1,000	NE		**9.7**	**12**											**13**				
Mercury	20	610	NE		<0.030	<0.030											<0.029				
Nickel	1,400	7,500	NE		**22**	**24**											**14**				
Silver	340	10,000	NE		<0.76	<0.75											<0.76				
Vanadium	470	14,000	NE		**32**	**31**											**40**				
Zinc	20,000	610,000	NE		**51**	**56**											**47**				
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	4																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	89.8	86.1	86.7	89.9	90.3	85.8	89.7	86.7	89.4	86	89.5	87.5	86.5	87	85.6	92.2	85.9	85.8

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-222B	B-223A	B-223B	Dup-4/Duplicate of B-223B	B-224A	B-224B	B-224C	B-225A	B-225B	B-225C	B-226A	Dup-5/Duplicate of B-226A	B-226B	B-227A	B-227B	B-228A	B-228B	B-228C
SAMPLE DEPTH (ft bgs)				3.0-4.0	0-0.5	3.0-4.0	3.0-4.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	0-0.5	3.0-4.0	0-0.5	3.0-4.0	0-0.5	3.0-4.0	7.0-8.0
DATE SAMPLED				3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC[3]	18C0362	18C0362	18C0362	18C0363	18C0362	18C0362	18C0362	18C0362	18C0362	18C0362	18C0363	18C0363	18C0363	18C0363	18C0363	18C0362	18C0363	18C0363
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB-1221	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB-1232	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB-1242	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB-1248	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	**0.93**	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB-1254	NE	NE	NE	<0.092	<0.096	<0.093		<0.094	<0.091	**0.18**	<0.095	**3.1**	<0.090	<0.092		<0.088	<0.094	<0.092	**0.10**	<0.094	<0.11
PCB-1260	NE	NE	NE	**0.094**	**0.14**	**0.28**		**0.15**	<0.091	**0.45**	**0.26**	**5.8**	<0.090	**0.12**		<0.088	**0.17**	<0.092	**0.63**	<0.094	<0.11
PCB 1262	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB 1268	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
Total PCBs	1	10	NE	**0.094**	**0.14**	**0.28**		**0.15**	<0.091	**0.63**	**0.26**	**9.83**	<0.090	**0.12**		<0.088	**0.17**	<0.092	**0.73**	<0.094	<0.11
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS																		
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4			<0.20															
Anthracene	1,000	2,500	40			<0.20															
Benzo(a)anthracene	1	7.8	1			<0.20															
Benzo(a)pyrene	1	1	1			<0.20															
Benzo(b)fluoranthene	1	7.8	1			<0.20															
Benzo(g,h,i)perylene	8.4	78	1			<0.20															
Benzo(k)fluoranthene	8.4	78	1			<0.20															
Carbazole	31	290	0.2			<0.20															
Chrysene	84	780	1			<0.20															
Dibenz(a,h)anthracene	1	1	1			<0.20															
Fluoranthene	1,000	2,500	5.6			**0.28**															
Fluorene	1,000	2,500	5.6			<0.20															
Indeno(1,2,3-cd)pyrene	1	7.8	1			<0.20															
Naphthalene	1,000	2,500	5.6			<0.20															
Phenanthrene	1,000	2,500	4			<0.20															
Pyrene	1,000	2,500	4			**0.26**															
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500			**66**	**350**				**34**										
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE								<1.9			<1.9	<1.9		<1.9				
Arsenic	10	10	NE								<1.9			**3.2**	<1.9		**2.4**				
Barium	4,700	140,000	NE								**40**			**120**	**60**		**93**				
Beryllium	2	2	NE								**0.21**			**0.43**	<0.19		**0.69**				
Cadmium	34	1,000	NE								<0.19			**0.26**	<0.19		**0.24**				
Chromium	NE	NE	NE								**14**			**16**	**14**		**15**				
Copper	2,500	76,000	NE								**19**			**34**	**42**		**26**				
Lead	400	1,000	NE								**13**			**19**	**11**		**20**				
Mercury	20	610	NE								<0.029			<0.03	<0.031		<0.03				
Nickel	1,400	7,500	NE								**12**			**15**	**16**		**21**				
Silver	340	10,000	NE								<0.77			<0.75	<0.77		<0.78				
Vanadium	470	14,000	NE								**28**			**32**	**34**		**33**				
Zinc	20,000	610,000	NE								**36**			**45**	**51**		**58**				
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	4																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**86.5**	**83**	**85.8**	**87.1**	**84.8**	**88.2**	**86.9**	**84.5**	**88.9**	**89.3**	**86.9**	**83**	**90.5**	**84.9**	**86.9**	**83.3**	**85.3**	**74.5**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 1
SUMMARY OF 2018 INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-229A	B-229B	B-229C	B-230A	B-230B	B-230C	B-231A	B-232A	B-232B	B-232C
SAMPLE DEPTH (ft bgs)				0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	4.0-5.0	0-0.5	0-0.5	3.0-4.0	4.0-5.0
DATE SAMPLED				3/8/18	3/8/18	3/8/18	3/16/18	3/16/18	3/16/18	3/16/18	3/16/18	3/16/18	3/16/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC[3]	18C0363	18C0363	18C0363	18C0698	18C0698	18C0698	18C0698	18C0698	18C0698	18C0698
PARAMETER (Units) [2]													
PCBs by EPA Methods 3540/8082 (mg/kg)													
PCB 1016	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1221	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1232	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1242	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1248	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1254	NE	NE	NE	<0.096	<0.094	<0.093	<0.093	**0.11**	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1260	NE	NE	NE	**0.47**	<0.094	<0.093	**0.31**	<0.094	<0.091	**0.49**	<0.098	**0.092**	<0.088
PCB 1262	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB 1268	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
Total PCBs	1	10	NE	**0.47**	<0.094	<0.093	**0.31**	**0.11**	<0.091	**0.49**	<0.098	**0.092**	<0.088
SPLP PCBs by EPA Methods 1312/8082A (ug/l)													
PCB- 1260	NE	NE	0.5										
Total PCBs	NE	NE	0.5										
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS										
SVOCs by EPA Method 8270 (mg/kg)													
Acenaphthene	1,000	2,500	8.4										
Anthracene	1,000	2,500	40										
Benzo(a)anthracene	1	7.8	1										
Benzo(a)pyrene	1	1	1										
Benzo(b)fluoranthene	1	7.8	1										
Benzo(g,h,i)perylene	8.4	78	1										
Benzo(k)fluoranthene	8.4	78	1										
Carbazole	31	290	0.2										
Chrysene	84	780	1										
Dibenz(a,h)anthracene	1	1	1										
Fluoranthene	1,000	2,500	5.6										
Fluorene	1,000	2,500	5.6										
Indeno(1,2,3-cd)pyrene	1	7.8	1										
Naphthalene	1,000	2,500	5.6										
Phenanthrene	1,000	2,500	4										
Pyrene	1,000	2,500	4										
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)													
Acenaphthene	NE	NE	8.4										
Anthracene	NE	NE	40										
Benzo(a)anthracene	NE	NE	1										
Benzo(a)pyrene	NE	NE	1										
Benzo(b)fluoranthene	NE	NE	1										
Benzo(g,h,i)perylene	NE	NE	1										
Benzo(k)fluoranthene	NE	NE	1										
Carbazole	NE	NE	0.2										
Chrysene	NE	NE	1										
Dibenz(a,h)anthracene	NE	NE	1										
Fluoranthene	NE	NE	5.6										
Fluorene	NE	NE	5.6										
Indeno(1,2,3-cd)pyrene	NE	NE	1										
Naphthalene	NE	NE	5.6										
Phenanthrene	NE	NE	4										
Pyrene	NE	NE	4										
ETPH by CT Method (mg/kg)	500	2,500	500										
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]										
Metals by EPA Methods 6010B or 7470 (mg/kg)													
Antimony	27	8,200	NE										
Arsenic	10	10	NE										
Barium	4,700	140,000	NE										
Beryllium	2	2	NE										
Cadmium	34	1,000	NE										
Chromium	NE	NE	NE										
Copper	2,500	76,000	NE										
Lead	400	1,000	NE										
Mercury	20	610	NE										
Nickel	1,400	7,500	NE										
Silver	340	10,000	NE										
Vanadium	470	14,000	NE										
Zinc	20,000	610,000	NE										
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)													
Arsenic	NE	NE	50										
Barium	NE	NE	1000										
Beryllium	NE	NE	4										
Cadmium	NE	NE	5										
Copper	NE	NE	1300										
Lead	NE	NE	15										
Zinc	NE	NE	5000										
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002										
Total Solids (%)	NE	NE	NE	**83.6**	**85.3**	**86.3**	**85.9**	**82.3**	**88.2**	**75.6**	**80.1**	**89.4**	**88.2**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF 2018 INVESTIGATION GROUNDWATER ANALYTICAL RESULTS
SETTLING BASIN
107 SELDON STREET, BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			MW-1	MW-3	MW-4	MW-5	DUP-1/ Duplicate of MW-5	MW-6
DATE SAMPLED				2/2/18	2/2/18	2/2/18	2/2/18	2/2/18	2/2/18
WORK ORDER	SWPC	GWPC	I/C VOL.	18B0100	18B0100	18B0100	18B0100	18B0100	18B0100
PARAMETER (Units)									
Polychlorinated Biphenyls by EPA method 8082 (ug/L)									
Total PCBs	0.5	0.5	--	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Organic Compounds by EPA method 8260 (ug/L)	CS	CS	CS	BDL	BDL	BDL	BDL	BDL	BDL
Semivolatile Organic Compounds by EPA method 8270 (ug/L)	CS	CS	CS	BDL	BDL	BDL	BDL	BDL	BDL
Extractable Total Petroleum Hydrocarbons by CT method (mg/L)	0.25 [3]	NE	--	**0.14**	**0.15**		<0.077	<0.078	**0.11**
Total RCRA 15 Metals by EPA method 6010B/7470A (ug/L)									
Barium	2,200	1,000	--	**1100**	**870**	**530**	**650**	**680**	**2900**
Cadmium	6	5	--	**4.1**	**4.3**	<2.5	<2.5	<2.5	**5.6**
Copper	48	1,300	--	**48**	**60**	<25	<25	<25	67
Silver	12	36	--	**60**	**45**	<2.5	<2.5	<2.5	**29**
Zinc	123	5,000	--	**50**	**71**	<50	<50	<50	<50
Mercury	0.4	2	--	**0.13**	<0.10	<0.10	<0.10	<0.10	<0.10

NOTES:
1. Analytical results compared to applicable criteria from Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive, (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. ETPH results compared to the SWCP because a GWPC is not in the RSRs.

-- = Not Applicable
mg/L = milligrams per liter
ug/L = micrograms per liter
BDL = Below Detection Limit
BOLD = Compound Detected at Reported Concentration
SWPC = Surface Water Protection Criteria
RES VOL. = Residential Volatilization Critera
I/C VOL. = Industrial/commercial Volatilization Critera
CS = Compound Specific

= Exceeds SWPC
= Exceeds GWPC
= Exceeds SWPC and GWPC
- Not Analyzed

APPENDIX A

REMIEDIAL INVESTIGATION SAMPLING PLAN FEBRURARY 2012

REMEDIAL INVESTIGATION SAMPLING PLAN

NORTHEAST UTILITIES BERLIN CAMPUS
STORM WATER SETTLING BASIN

Prepared for:

NORTHEAST UTILITIES SERVICE COMPANY, AS AGENT FOR
THE CONNECTICUT LIGHT AND POWER COMPANY AND THE WESTERN
MASSACHUSETTS ELECTRIC COMPANY

Prepared by:

Weston & Sampson, Inc.
273 Dividend Road
Rocky Hill, Connecticut

February 2012

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Appendix A Laboratory Analytical Reports - July 2010
Appendix B Laboratory Analytical Reports - December 2011/January 2012

1.0 INTRODUCTION

Weston & Sampson, Inc. (Weston and Sampson) has prepared this remedial investigation sampling plan (the "Plan") on behalf of Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P) and The Western Massachusetts Electric Company (WMECo), for delineation and pre-characterization of soil impacted with polychlorinated biphenyls (PCBs) in accordance with Subpart N of the Toxic Substances Control Act (TSCA) 40 CFR 761.61 (a). The project is located at NUSCO's Berlin Campus Storm Water Settling Basin located southeast of the parking garage in Berlin, Connecticut (the Site). The location of the Site is shown on ***Figure 1*** (Site Locus Map). Background information and results of previous studies are presented in this Plan. The purpose for conducting this remedial investigation is to assess the degree and extent of PCB-impacted soil located within the settling basin. PCBs were detected in characterization soil samples collected in support of a project to remove the material that accumulated along the bottom of the settling basin. This Plan has been developed in accordance with 40 CFR 761.61(a)(2) Subpart N, the Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste.

A limited site investigation of the settling basin was completed in December 2011 to evaluate the potential extent of PCB impacts within the settling basin (refer to ***Figure 2*** for location). This Plan summarizes the results of the limited site investigation and proposed sampling locations to complete the assessment of the distribution of PCBs in soil at the Site. The results of the remedial investigation will be used to evaluate appropriate PCB remediation activities in accordance with 40 CFR 761.61. This Plan also includes the following information and data:

- Site history;
- July 2010, December 2011, and January 2012 analytical results of PCB sampling at the Site; and
- Discussion of sample collection methods and the proposed sampling plan for the Site.

The Plan presented below describes the field and analytical methods for the proposed assessment of the degree and extent of PCB impacted soil at the Site.

2.0 SITE DESCRIPTION

The Site is located southeast of the parking garage on NUSCO's campus located at 107 Seldon Street Berlin, Connecticut (***Figure 1*** – Site Locus Map). The Site area is approximately 8,000 square-feet.

The Site is surrounded by a parking garage to the northwest and west, undeveloped and wooded land and an access road to the north and east, and heavily vegetated/wooded undeveloped land to the south.

Topographically, the Site generally slopes from northwest to southeast and is located within a drainage low situated between three topographic highs to the north, east, south and west of the settling basin. With the exception of the parking garage, a majority of the surrounding land is undeveloped and densely vegetated. Soil at the Site consists of light brown fine to coarse sand in the upper 2.5 feet (ft) in the vicinity of the two inlets to the settling basin. Subsurface soil in the remainder of the settling basin consists of approximately one (1) foot of dark brown fine sandy silt transitioning to a reddish brown fine sand and clay underlain by up to seven (7) ft of red brown sand and fine gravel.

Groundwater at the Site is classified by the Connecticut Department of Energy and Environmental Protection CTDEEP as GA. The GA classification means that the groundwater is presumed to be suitable for drinking without treatment. Groundwater elevation beneath the Site may be variable throughout the year due to seasonal fluctuation in groundwater elevation and mounding due to temporary impacts by storm water storage within the basin. The closest water body is an unnamed stream, located approximately 70 ft southwest of the outlet from the settling basin. Storm water overflows from the settling basin into the top of an outlet structure, travels underground in a 36-inch reinforced concrete pipe, then discharges to the unnamed stream.

3.0 PREVIOUS SITE INVESTIGATIONS

3.1 Summary of Results

NUSCO completed a pre-construction characterization of the soil located along the bottom of the settling basin for off-site disposal on July 19, 2010. A total of seven (7) hand auger borings designated, TP-1 through TP-7, were advanced along the bottom of the settling basin which are presented on ***Figure 2***. Fine to coarse, light brown, depositional sand was observed in the upper 2.5 ft in the hand auger borings advanced in the vicinity of the two inlets to the settling basin. Subsurface soils consisted of a dark brown, fine sandy silt before transitioning to a reddish brown silt with some fine sand and clay at approximately 1.0 ft below ground surface (bgs) at the hand auger borings advanced towards the northern and central regions of the basin. Sample locations near the southwest portion of the basin, closest to the outlet, consisted of dark brown silt mixed with organics and clay.

NUSCO collected soil samples from five of the seven hand auger boring locations (TP-1, TP-3, TP-4, TP-5, and TP-7). A blind duplicate sample, DUP-1, was also collected from sample location, TP-1, for Quality Assurance/Quality Control (QA/QC) purposes. NUSCO submitted a total of six soil samples including the duplicate soil sample for disposal characterization. Each of the samples was analyzed for typical pre-characteristic parameters. The results of the analytical testing are presented in ***Appendix A***.

Analytical results indicate that PCBs were detected in soils samples TP-4 and TP-5 at concentrations of 5.8 mg/kg and 1.7 mg/kg, respectively, which exceed applicable Remediation Standard Regulations (RSR) criteria. NUSCO concluded that additional investigation and sampling was warranted prior to the commencement of remediation/restoration activities, due to the presence of PCBs above regulatory criteria.

On December 19, 2011, Weston & Sampson completed fifteen Geoprobe® direct push test borings (WSE-1 through WSE-15) within the settling basin. Refer to Figure 2 for sampling locations. The Geoprobe® sampling device consisted of a 5-foot long, 2-inch diameter, stainless steel, macro core sampler and a disposable acetate liner. Direct-push test borings were advanced to depths of up to 8 ft below grade. Discrete soil samples were collected from 0.5 ft depth intervals from ground surface to 4.0 ft within the settling basin. A discrete soil sample was collected at one location (WSE-3) at a depth of 6.5 ft to 7.0 ft. Soil samples were preserved and kept chilled in accordance with applicable testing methods. Field Quality Assurance/Quality Control (QA/QC) procedures included the collection of a blind duplicate sample

Sampling equipment including the macro core sampler and Geoprobe rod were decontaminated on site during and at the conclusion of sampling in accordance with 40 CFR 761.79 (c)(2)(ii). The double wash/rinse method for decontaminating non-porous surfaces utilizing a hexane solvent was utilized following removal and disposal of the acetate liners. Solid and liquid investigation derived wastes (IDW), such as acetate liners, gloves, decontamination liquids, etc., generated from sampling activities were

containerized in separate 55-gallon drum(s) (one drum for solids and one drum for liquids) for off-Site disposal at a Toxic Substances Control Act (TSCA)-certified facility.

Thirty-one soil samples were submitted under a chain-of-custody to Con-Test Analytical Laboratory (Con-Test), a State certified analytical laboratory, located in East Longmeadow, Massachusetts (CT certified laboratory PH-0567). The samples were submitted for analysis of PCBs by EPA Method 8082. The results of analytical testing are summarized on ***Table 1*** and presented in ***Appendix B***.

With the exception of soil collected at WSE-5, WSE-7, WSE-8, and WSE-12, PCBs were detected above 1 mg/kg in soil at 0.5 ft to 2.0 ft and 2.0 ft to 4.0 ft. At WSE-3, PCBs were detected at 550 mg/kg at a depth of 6.5 ft to 7.0 ft below grade. PCBs were not detected above the laboratory reporting limit at WSE-5, WSE-7, WSE-8, and WSE-12.

On January 11, 2012, Weston & Sampson collected three discrete sediment samples (WSE-16, WSE-17, and WSE-18) downstream of the settling basin outfall using hand-held equipment (refer to ***Figure 2*** for sample locations). Sampling equipment was decontaminated prior to moving between sample locations using a detergent solution, methanol rinse and de-ionized water rinse. Samples were collected 0.5 ft into the sediment within the stream bed.

In addition, a sediment sample was collected from a catch basin (CB-1) in the paved parking area located southeast of the parking garage as shown on ***Figure 2***. Collection of sediment was not possible from CB-2 and CB-3 since there was only 2-3 inches of sediment at CB-2 (not enough to collect a sample) and no sediment in CB-3. The sediment samples were preserved and kept chilled in accordance with applicable testing methods. Four (4) sediment samples were submitted under a chain-of-custody to Con-Test Analytical Laboratory (Con-Test), a State certified analytical laboratory, located in East Longmeadow, Massachusetts (CT certified laboratory PH-0567). The samples were submitted for analysis of PCBs by EPA Method 8082.

The results of analytical testing are summarized on ***Table 1*** and presented in ***Appendix B***. PCBs were detected in sediment WSE-17 (0.23 mg/kg) below the applicable cleanup level of 1.0 mg/kg. PCBs were not detected above the laboratory reporting limit in samples WSE-16, WSE-18, and CB-1.

Based on the existing analytical data, the detected concentrations of PCBs above 1.0 mg/kg in soil appear to be distributed within the central and southern portions of the settling basin. Data gaps exist based on the lateral/vertical distribution of the data collected to date. To meet the characterization requirements of Sub Part N Cleanup Site Characterization Sampling for PCB Remediation Waste {(40 CFR 761.61 (a)(2)}additional soil samples will need to be collected.

No impacts were detected in sediment collected above cleanup goals at the sampling locations downstream of the settling basin outfall. No additional investigation in this area is required at this time.

3.2 The Nature of Impacts

NUSCO has operated the Site and overall campus for a period of 62 years. The Storm water settling basin was constructed in 1992 concurrent with the construction of the NUSCO parking garage. The settling basin receives storm water from three catch basins located in the parking lot along the southeast side of the NUSCO parking garage (refer to ***Figure 2***).

The release mechanism for PCBs to the environment likely involved the migration of PCB-impacted fine grained sediment originating from upgradient stored equipment and oil storage trailers in the paved area southeast of the parking garage.

Based on the data collected at the Site, it appears that the PCB impacts are limited to the area within the settling basin. The deepest PCB impacts exceeding the CTDEEP Residential Direct Exposure Criteria (RDEC) and the remedial goal of 1 mg/kg were detected 6.5 ft to 7.0 ft within the western portion of the settling basin at sample location WSE-3 (refer to ***Figure 2*** for sampling location and ***Table 1*** for a summary of analytical results). The remaining PCB soil impacts were detected at depths ranging from 0.5 ft to 4.0 ft. PCBs were also not detected above the laboratory reporting limit within 0.0 ft to 4.0 ft depth interval at several locations suggesting the distribution of impacted soils is variable in concentration and depth. This Plan is designed to fill in data gaps required to assess the extent of impacted soil within the settling basin. The results of the remedial investigation will be used to evaluate soil management strategies for off-site disposal of the impacted soil as part of a Self-implementing On-Site Cleanup and Disposal of PCB Remediation Waste (40 CFR 761.61 (a)).

4.0 REMEDIAL INVESTIGATION

4.1 Proposed Soil Sampling Methodology

Weston & Sampson proposes the advancement of up to one-hundred and thirty one soil borings throughout the settling basin area to further characterize and delineate PCB-impacted soils. Proposed boring locations are presented on ***Figure 3*** and proposed soil sample locations with depth are summarized on ***Table 2***. Soil boring locations will be spaced approximately 10 feet apart horizontally in a grid like pattern in accordance with 40 CFR 761.265 (a) (2) Subpart N for sampling bulk PCB remediation waste. With the exception of the proposed soil borings located adjacent to sample location WSE-3, soil samples will be collected for laboratory analysis from 0.0 ft to 2.0 ft and 8.0 ft to 10.0 ft depth intervals from the remaining proposed soil boring locations along the northern third of the settling basin and along the limits of the sampling grid.

Soil samples will be collected continuously at 2 foot intervals to a depth of 10.0 ft below grade at proposed boring locations adjacent to WSE-3 (B-28, B-29, B-30, B-39, B-41, B-52, B-53, and B-54) in an effort to delineate the limits of soil within the settling basin impacted above 50 mg/kg for PCBs.

In the northern third of the settling basin where minimal PCB impact was encountered and along the limits settling basin/sampling grid, composite sampling as defined in 40 CFR 761.289 will be conducted as summarized in Table 2. Composite sampling will be conducted by combining same depth samples from two adjoining nodes and compositing those into a single sample to be analyzed. It should be noted that the results from these composite samples will require comparison to 0.5 ppm for PCBs as the remedial guidance level.

Borings will be advanced using a rubber-tracked GeoProbe™ direct-push drill rig. Every effort will be made to obtain soil samples beneath the bottom of the basin at an assumed depth of greater than 4.0 ft bgs. Based on previous investigations, subsurface conditions beyond 4.0 ft bgs are unknown. Given the nature and/or construction of typical settling basins, it is likely that refusal may be encountered on materials such as rip rap. Additionally, site plans provided by the NUSCO depict a gravel layer on top of fabric filter immediately beneath a rip rap layer, however it is unclear if these materials are located throughout the basin or just portions of the basin.

During the soil boring activities, continuous soil samples will be collected using 5-foot long Macro Core™ samplers. Soil samples will be inspected for visual and olfactory evidence of impacts. Select soil samples will be collected and submitted for laboratory analysis for of PCBs via 8082 by Soxhlet Extraction Method 3540C. The Soxhlet extraction method for the delineation/characterization of PCB bulk waste is currently preferred by EPA Region 1.

Field Quality Assurance/Quality Control (QA/QC) procedures included the collection of blind duplicate samples and an equipment blank for each day of field work. We assume up to seven man-days to complete the investigation. One blind duplicate sample for every 20 soil samples will be collected and submitted for analysis of PCBs by EPA Method 8082 by Soxhlet extraction Method 3540C. The equipment blank will be collected by pouring de-ionized water through a decontaminated macro corer used to collect the soil samples.

Up to two-hundred thirteen soil samples, eleven duplicate samples and seven equipment blanks will be collected and analyzed for the presence of PCBs via EPA Method 8082 using the Soxhlet Extraction Method 3540C.

4.2 Field Coordination

Prior to commencement of drilling activities, Weston & Sampson will mark-out/stake all proposed boring locations and coordinate with NUSCO Facilities to locate utilities within the work area. Additionally, upon completion of the mark-out, Weston & Sampson will contact Call Before You Dig (CBYD) to obtain utility clearance and the Berlin Inland Wetland and Watercourses Commission to inform them of the investigation activities within the wetland buffer.

4.3 Field Equipment Decontamination Procedure

The macro corer used to collect the soil samples and any equipment used to composite samples will be decontaminated using the following procedure:

- Set up a 55-gallon drum on 6-mil. polyethylene and berm the area;
- Physically remove soil with a brush and Alconox rinse;
- distilled water rinse;
- hexane rinse; and,
- distilled water rinse.

Rinsate and solids will be placed into seperate drums.

Following the completion of Site assessment activities, the GeoProbe™ contractor will be responsible for the decontamination of movable equipment that has come in contact with PCB impacted media in accordance with 40 CFR 761.79. The contractor will verify the completeness of equipment decontamination by performing standard wipe tests in accordance with 40 CFR 761 subpart P.

4.4 Investigation Derived Wastes

Due to the known presence of PCBs, any solid or liquid investigation derived wastes (IDW), such as acetate liners, gloves, decontamination liquids, etc., generated from

sampling activities will be containerized in separate 55-gallon drum(s) and disposed of off-Site at a Toxic Substances Control Act (TSCA)-certified facility.

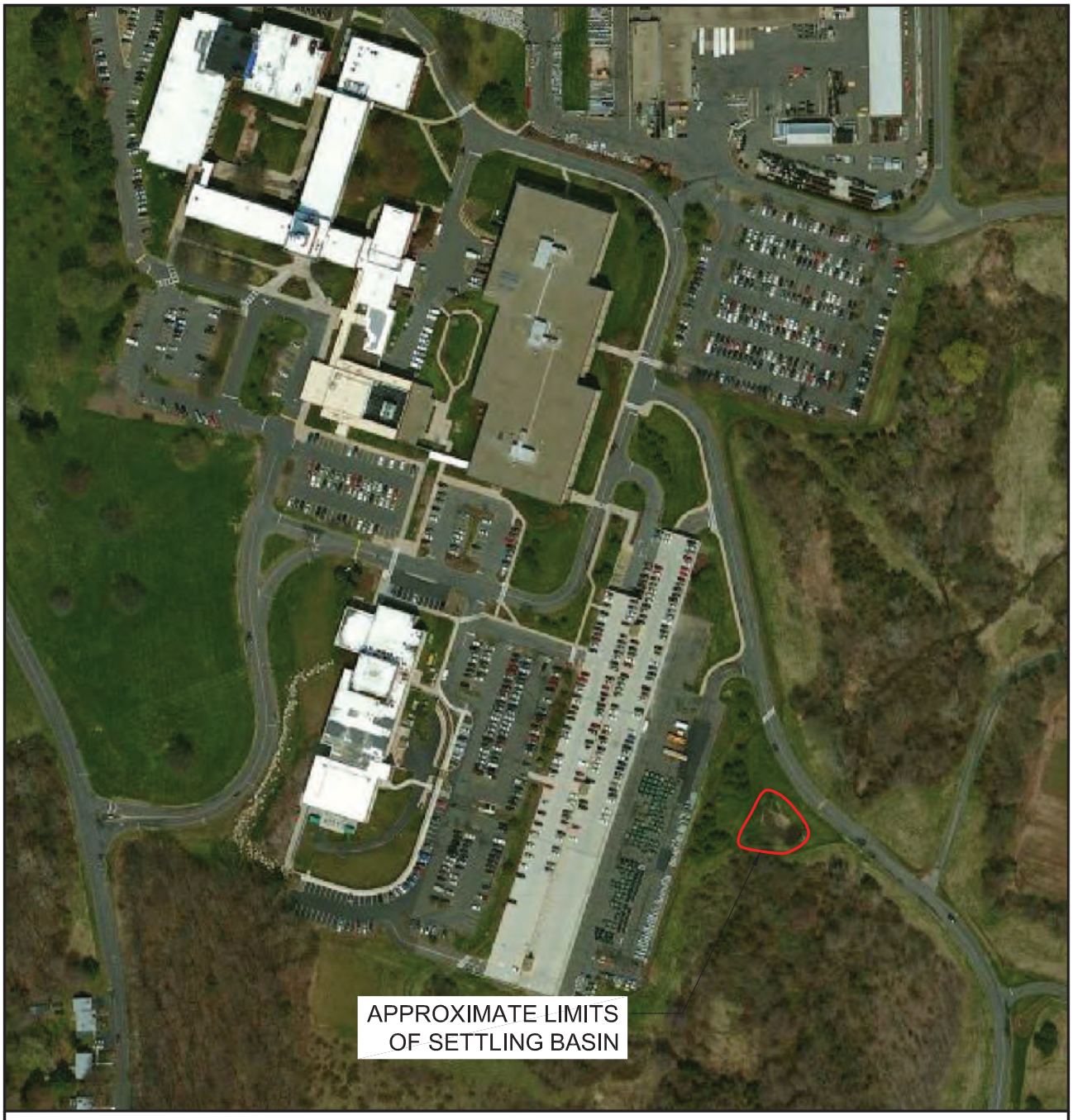
Non-liquid cleaning materials and personal protective equipment waste and other non-liquid materials resulting from decontamination shall be disposed of in accordance with 40 CFR 761.61(a)(5)(v).

The decontamination wastes generated will be placed in Department of Transportation (DOT) approved 55-gallon drums. The decontamination waste drums will be labeled in accordance with 40 CFR 761 subpart C, and temporarily stored on Site in a secure area. The drums must be transported off Site in containers meeting the requirements of the DOT Hazardous Materials Regulations (DOT HMR) at 40 CFR parts 171-180, as stated in 40 CFR 761.61(a)(5)(B). At a minimum, the drum labels will indicate that the contents include PCBs, date of generation, and emergency contact information.

5.0 REPORTING

5.1 Report of Findings

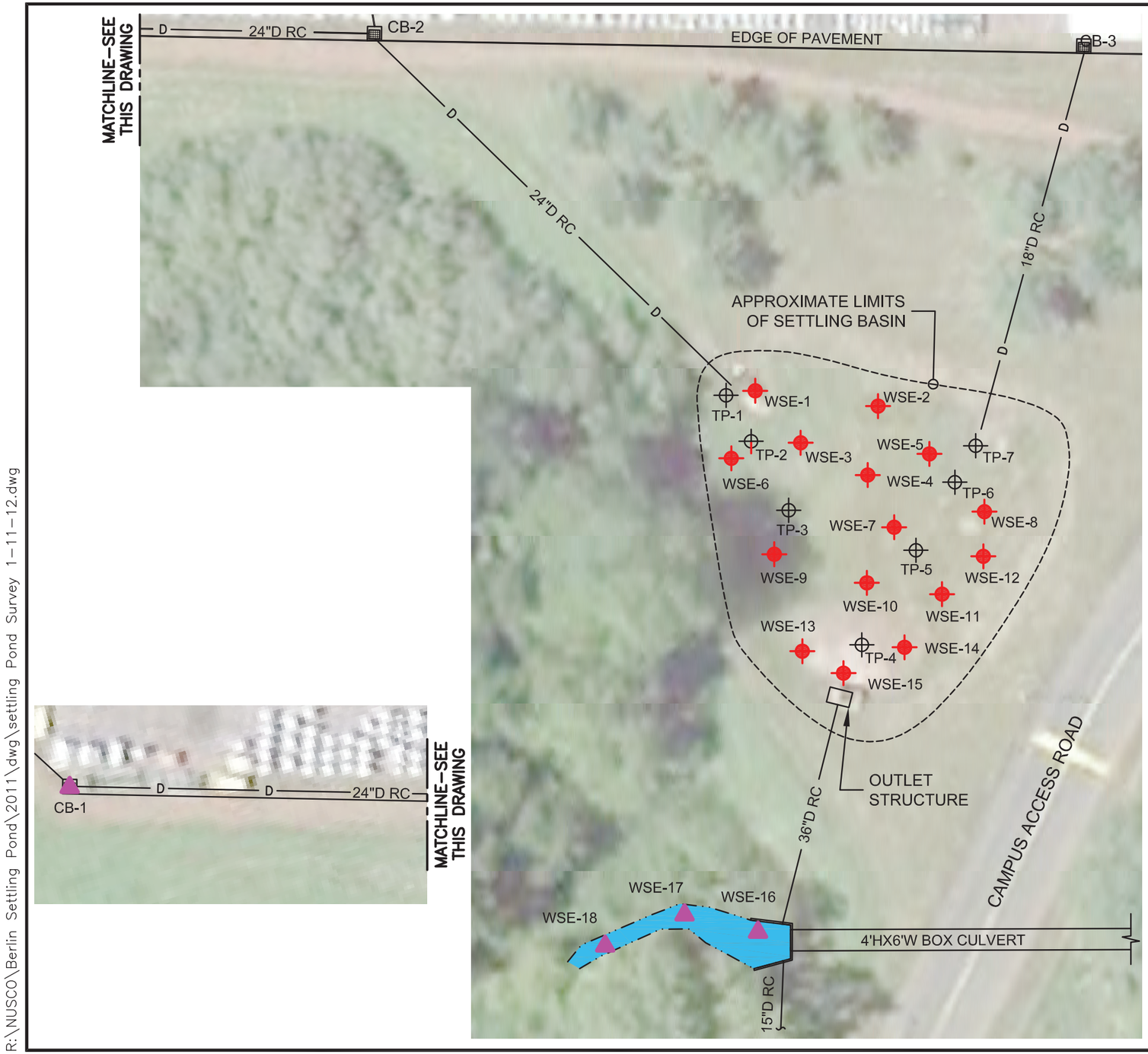
A Self Implementing On-Site Cleanup and Disposal of PCB Remediation Waste Plan will be prepared in general accordance with 40 CFR 761.61 (a) and will summarize the findings of this investigation and outline the selected remedial options. The report will include figures showing sampling locations, laboratory data and areas where remedial actions are proposed.



N

FIGURE 1
NORTHEAST UTILITIES SERVICE COMPANY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
SITE LOCUS MAP
FEBRUARY 2012 SCALE: NOT TO SCALE

Weston&Sampson



N

LEGEND

TP-1	NUSCO TEST PIT SOIL SAMPLE (JULY 2010)
WSE-1	SOIL BORING SAMPLE LOCATION (DECEMBER 2011)
WSE-17	SEDIMENT SAMPLE LOCATION (JANUARY 2012)
CB-2	CATCH BASIN

SCALE: 1"=30'

0 30' 60'

FIGURE 2

NORTHEAST UTILITIES SERVICE COMPANY

BERLIN CAMPUS SETTLING BASIN

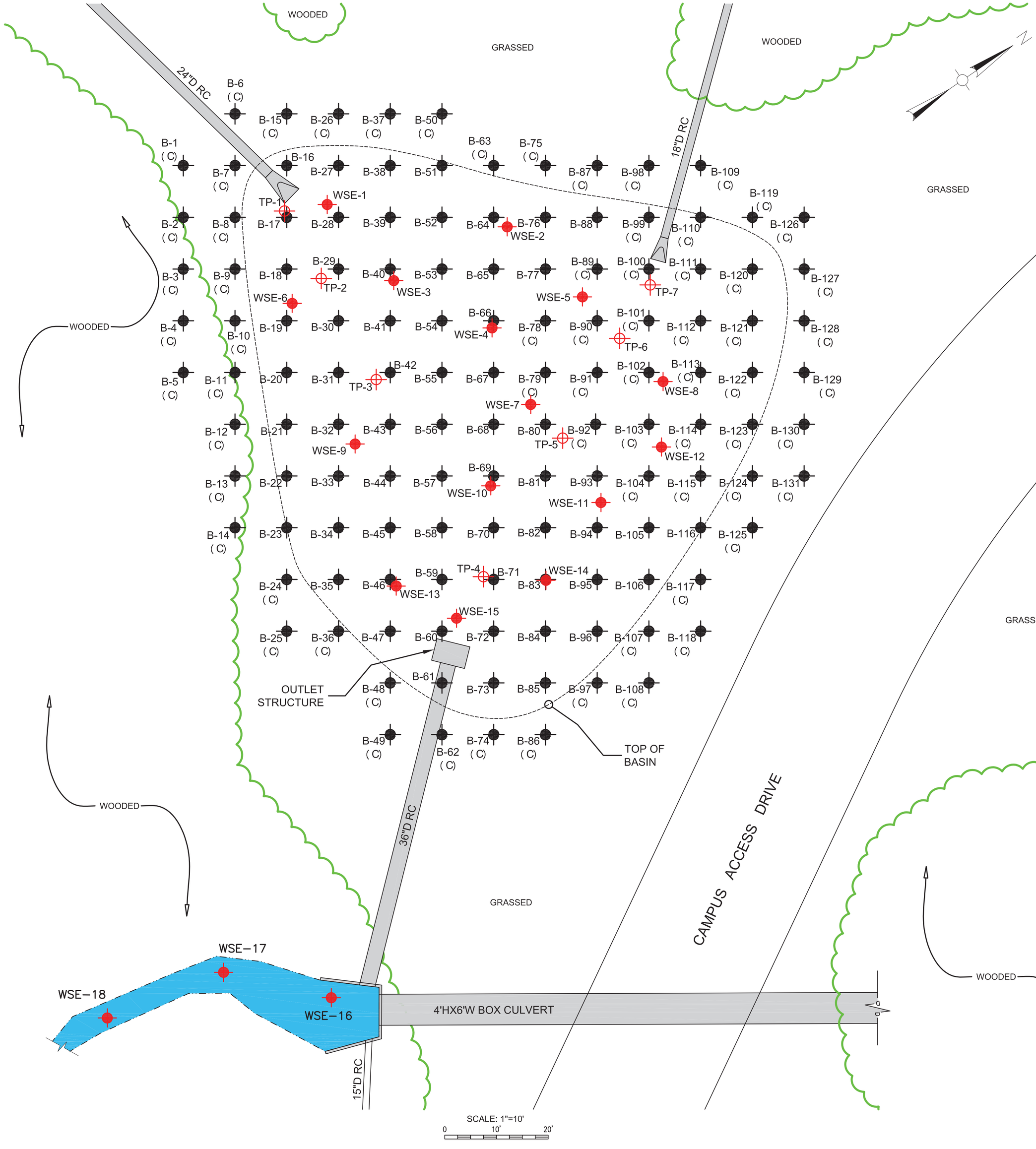
BERLIN, CONNECTICUT

COMPLETED SAMPLE LOCATION PLAN - JANUARY 2012

FEBRUARY 2012 SCALE:1"=30'

Weston&Sampson®

R:\NUSCO\Berlin Settling Pond\2011\dwg\settling Pond Survey 1–11–12.dwg





VICINITY MAP
SCALE: 1"=100'

LEGEND

B-1	PROPOSED SOIL BORING LOCATIONS
TP-1	NUSCO TEST PIT SAMPLE LOCATION (JULY 2010)
WSE-1	SOIL BORING SAMPLE LOCATION (DECEMBER 2011)

FIGURE 3
NORTHEAST UTILITIES
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
PROPOSED SAMPLE LOCATION PLAN
FEBRUARY 2012 SCALE: AS NOTED

Weston&Sampson®

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - SITE CHARACTERIZATION INVESTIGATION
BERLIN CAMPUS STORM WATER SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	WSE-1	WSE-1	WSE-2	WSE-2	WSE-3	WSE-3	WSE-4	WSE-4	WSE-5	WSE-5	WSE-6	WSE-6	WSE-7	EPA Standard (40 CFR 761.61(b))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	(0.5-1.0)	(2.0-2.5)	(1.0-1.5)	(3.0-3.5)	(0.0-0.5)	(6.5-7.0)	(0.5-1.0)	(2.5-3.0)	(0.0-0.5)	(3.0-3.5)	(0.5-1.0)	(2.5-3.0)	(1.0-1.5)				
DATE SAMPLED	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11				
LABORATORY REPORT NUMBER	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720		RES DEC	I/C DEC	GA PMC
PARAMETER																	
Polychlorinated Biphenyls (PCBs) (8082A) (mg/kg)																	
PCB-1254	**1.1**	<0.11	**3.4**	**8.4**	<0.12	**160**	**3.2**	**2.0**	**0.28**	<0.12	**4.3**	<0.11	<0.12	**4.3**	1	10	--
PCB-1260	**2.8**	<0.11	**4.6**	**14**	<0.12	**390**	**6.9**	**4.1**	**0.62**	<0.12	**8.5**	**0.36**	<0.12	**8.5**	1	10	--
Total PCBs	**3.9**	BDL	**8.0**	**22.4**	BDL	**550**	**10.1**	**6.1**	**0.90**	BDL	**12.8**	**0.36**	BDL	1	1	10	--
Total Solids (%)	84.0	88.1	86.5	83.0	80.8	80.4	79.4	80.7	66.8	80.9	82.1	91.3	82.9	--	--	--	--

SAMPLE LOCATION	WSE-7	WSE-8	WSE-8	WSE-9	WSE-9	WSE-10	WSE-10	DUP-1/ Duplicate of WSE-10 (3.0-3.5)	WSE-11	WSE-11	WSE-12	WSE-12	EPA Standard (40 CFR 761.61(b))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	(3.5-4.0)	(2.5-3.0)	(3.5-4.0)	(0.0-0.5)	(1.0-1.5)	(1.0-1.5)	(3.0-3.5)		(1.5-2.0)	(3.0-3.5)	(2.0-2.5)	(3.5-4.0)				
DATE SAMPLED	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11				
LABORATORY REPORT NUMBER	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720		RES DEC	I/C DEC	GAPMC
PARAMETER																
Polychlorinated Biphenyls (PCBs) (8082A) (mg/kg)																
PCB-1254	<0.11	<0.12	<0.12	<0.67	<0.12	<0.60	<0.12	<0.11	<0.58	<0.11	<0.12	<0.12	1	1	10	--
PCB-1260	<0.11	<0.12	<0.12	**3.8**	<0.12	**4.1**	**0.53**	**0.51**	**3.6**	**0.12**	<0.12	<0.12	1	1	10	--
Total PCBs	BDL	BDL	BDL	**3.8**	BDL	**4.1**	**0.53**	**0.51**	**3.6**	**0.12**	BDL	BDL	1	1	10	--
Total Solids (%)	86.6	84.3	83.5	72.8	80.4	82.1	83.1	87.7	84.2	93.4	84.9	84.4	--	--	--	--

SAMPLE LOCATION	WSE-13	WSE-13	WSE-14	WSE-14	WSE-15	WSE-15	WSE-16	WSE-17	WSE-18	CB-1	EPA Standard (40 CFR 761.61(b))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	(1.5-2.0)	(3.5-4.0)	(1.5-2.0)	(3.0-3.5)	(1.0-1.5)	(3.5-4.0)	(0.0-0.5)	(0.0-0.5)	(0.0-0.5)	--				
DATE SAMPLED	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	1/11/12	1/11/12	1/11/12	1/11/12				
LABORATORY REPORT NUMBER	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	12A0314-01	12A0314-01	12A0314-01	12A0314-01		RES DEC	I/C DEC	GAPMC
PARAMETER														
Polychlorinated Biphenyls (PCBs) (8082A) (mg/kg)														
PCB-1254	<0.24	<0.59	<1.2	<0.59	<2.4	<0.11	<0.12	<0.12	<0.15	<0.12	1	1	10	--
PCB-1260	**2.2**	**4.4**	**1.6**	**3.7**	**18**	**0.14**	<0.12	**0.23**	<0.15	<0.12	1	1	10	--
Total PCBs	**2.2**	**4.4**	**1.6**	**3.7**	**18**	**0.14**	BDL	**0.23**	BDL	BDL	1	1	10	--
Total Solids (%)	81.2	85.3	81.3	84.5	82.6	92.8	83.5	78.7	68.5	81.3	--	--	--	--

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996).
2. Berlin Settling Basin is located within a GA groundwater area.

-- = Not Applicable
mg/kg = milligrams per kilogram
BOLD = compound detected at that concentration.
R:\NUSCO\Berlin settling Pond\2011\2011 December\Soil Borings\Table\[Berlin Settling Basin - Soil Analytical Data rev021712.xls]Soil

I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria

= Exceeds RES DEC = Exceeds RES DEC
= Exceeds RES DEC = Exceeds RES DEC and I/C DEC
= Exceeds RES DEC, I/C DEC, and 50 mg/kg PCB

Table 2
Summary of Previous and Proposed Soil Sample Borings
Berlin Settling Basin
Berlin, Connecticut
January 2012

SAMPLE LOCATION	SAMPLE DEPTH (feet below grade)												
	0-0.5	0.5-1.0	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	4.0-6.0	6.0-6.5	6.5-7.0	7.5-8.0	8.0-10.0
WSE-1 [1]		3.90			BDL								
WSE-1 (Dup.) [1]							0.51						
WSE-2 [1]			8.00				22.40						
WSE-3 [1]	BDL										550.00		
WSE-4 [1]		10.10				6.10							
WSE-5 [1]	0.90						BDL						
WSE-6 [1]		12.80				0.36							
WSE-7 [1]			BDL					BDL					
WSE-8 [1]						BDL		BDL					
WSE-9 [1]	3.80		BDL										
WSE-10 [1]			4.10				0.53						
WSE-11 [1]				3.60			0.12						
WSE-12 [1]					BDL			BDL					
WSE-13 [1]				2.20				4.40					
WSE-14 [1]				1.60			3.70						
WSE-15 [1]			18.00					0.14					
TP-01 [2]					<0.12								
TP-01 (Dup.)[2]					<0.12								
TP-03 [2]		<0.13											
TP-04 [2]	5.80												
TP-05 [2]	1.70												
TP-07 [2]				<0.11									
B-1 [5]	x (c)												x (c)
B-2 [5]	x (c)												x (c)
B-3 [5]	x (c)												x (c)
B-4 [5]	x (c)												x (c)
B-5 [5]	x (c)												x (c)
B-6 [5]	x (c)												x (c)
B-7 [5]	x (c)												x (c)
B-8 [5]	x (c)												x (c)
B-9 [5]	x (c)												x (c)
B-10 [5]	x (c)												x (c)
B-11 [5]	x (c)												x (c)
B-12 [5]	x (c)												x (c)
B-13 [5]	x (c)												x (c)
B-14 [5]	x (c)												x (c)
B-15 [5]	x (c)												x (c)
B-16	x												x
B-17	x												x
B-18	x												x
B-19	x												x
B-20	x												x
B-21	x												x
B-22	x												x
B-23	x												x
B-24 [5]	x (c)												x (c)
B-25 [5]	x (c)												x (c)
B-26 [5]	x (c)												x (c)
B-27	x												x

Table 2
Summary of Previous and Proposed Soil Sample Borings
Berlin Settling Basin
Berlin, Connecticut
January 2012

SAMPLE LOCATION	SAMPLE DEPTH (feet below grade)												
	0-0.5	0.5-1.0	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	4.0-6.0	6.0-6.5	6.5-7.0	7.5-8.0	8.0-10.0
B-28		x				x			x		x		x
B-29		x				x			x		x		x
B-30		x											x
B-31		x											x
B-32		x											x
B-33		x											x
B-34		x											x
B-35		x											x
B-36 [5]		x (c)											x (c)
B-37 [5]		x (c)											x (c)
B-38		x											x
B-39		x				x			x		x		x
B-40		x											x
B-41		x				x			x		x		x
B-42		x											x
B-43		x											x
B-44		x											x
B-45		x											x
B-46		x											x
B-47		x											x
B-48 [5]		x (c)											x (c)
B-49 [5]		x (c)											x (c)
B-50 [5]		x (c)											x (c)
B-51		x											x
B-52		x											x
B-53		x				x			x		x		x
B-54		x				x			x		x		x
B-55		x											x
B-56		x											x
B-57		x											x
B-58		x											x
B-59		x											x
B-60		x											x
B-61		x											x
B-62 [5]		x (c)											x (c)
B-63 [5]		x (c)											x (c)
B-64		x											x
B-65		x											x
B-66		x											x
B-67		x											x
B-68		x											x
B-69		x											x
B-70		x											x
B-71		x											x
B-72		x											x
B-73		x											x
B-74 [5]		x (c)											x (c)

Table 2
Summary of Previous and Proposed Soil Sample Borings
Berlin Settling Basin
Berlin, Connecticut
January 2012

SAMPLE LOCATION	SAMPLE DEPTH (feet below grade)												
	0-0.5	0.5-1.0	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	4.0-6.0	6.0-6.5	6.5-7.0	7.5-8.0	8.0-10.0
B-75 [5]	x (c)												x (c)
B-76	x												x
B-77	x												x
B-78 [5]	x (c)												x (c)
B-79 [5]	x (c)												x (c)
B-80	x												x
B-81	x												x
B-82	x												x
B-83	x												x
B-84	x												x
B-85	x												x
B-86 [5]	x (c)												x (c)
B-87 [5]	x (c)												x (c)
B-88	x												x
B-89 [5]	x (c)												x (c)
B-90 [5]	x (c)												x (c)
B-91 [5]	x (c)												x (c)
B-92 [5]	x (c)												x (c)
B-93	x												x
B-94	x												x
B-95	x												x
B-96	x												x
B-97 [5]	x (c)												x (c)
B-98 [5]	x (c)												x (c)
B-99 [5]	x (c)												x (c)
B-100 [5]	x (c)												x (c)
B-101 [5]	x (c)												x (c)
B-102 [5]	x (c)												x (c)
B-103 [5]	x (c)												x (c)
B-104 [5]	x (c)												x (c)
B-105	x												x
B-106	x												x
B-107 [5]	x (c)												x (c)
B-108 [5]	x (c)												x (c)
B-109 [5]	x (c)												x (c)
B-110 [5]	x (c)												x (c)
B-111 [5]	x (c)												x (c)
B-112 [5]	x (c)												x (c)
B-113 [5]	x (c)												x (c)
B-114 [5]	x (c)												x (c)
B-115 [5]	x (c)												x (c)
B-116	x												x
B-117 [5]	x (c)												x (c)
B-118 [5]	x (c)												x (c)
B-119 [5]	x (c)												x (c)
B-120 [5]	x (c)												x (c)
B-121 [5]	x (c)												x (c)

Table 2
Summary of Previous and Proposed Soil Sample Borings
Berlin Settling Basin
Berlin, Connecticut
January 2012

SAMPLE LOCATION	SAMPLE DEPTH (feet below grade)											
	0-0.5	0.5-1.0	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	4.0-6.0	6.0-6.5	6.5-7.0	7.5-8.0	8.0-10.0
B-122 [5]	x (c)												x (c)
B-123 [5]	x (c)												x (c)
B-124 [5]	x (c)												x (c)
B-125 [5]	x (c)												x (c)
B-126 [5]	x (c)												x (c)
B-127 [5]	x (c)												x (c)
B-128 [5]	x (c)												x (c)
B-129 [5]	x (c)												x (c)
B-130 [5]	x (c)												x (c)
B-131 [5]	x (c)												x (c)

Notes: [1] Location of previous soil samples collected by Weston&Sampson Engineers (December 2011). Values represent total PCBs (mg/kg).

[2] Location of previous soil samples collected by NUSCO (July 2010). Values represent total PCBs (mg/kg).

[3] BDL means result of sample analysis was below laboratory reporting limit.

[4] X represents depths of which soil samples will be collected.

[5] X (c) means the soil sampled at this location will be composited with a sample collected from the same depth interval at an adjacent test boring.

Total PCBs exceeds RES DEC
Total PCBs exceeds RES DEC & I/C DEC
Total PCBs exceeds RES DEC, I/C DEC & 50 mg/kg PCB

APPENDIX B

SELF-IMPLEMENTING AND RISK-BASED HYBRID CLEANUP PLAN, SEPTEMBER 2015

EVERSOURCE ENERGY

Environmental Affairs Department
107 Selden Street
Berlin, Connecticut 06037

September 30, 2015

Ms. Kimberly N. Tisa, PCB Coordinator (OSRR07-2)
United State Environmental Protection Agency – Region 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: Self-Implementing and Risk-Based Hybrid Cleanup Plan
Eversource Energy - Berlin Campus Settling Basin
107 Selden Street
Berlin, Connecticut

Dear Ms. Tisa:

Eversource Energy (Eversource) is pleased to submit the attached Self-Implementing and Risk-Based Hybrid Cleanup Plan (Plan) prepared by Weston & Sampson Engineers (Weston & Sampson) for the pre-characterization, removal, disposal, and remediation of soil impacted with polychlorinated biphenyls (PCBs) at the storm water settling basin and adjacent upland/wooded area on Eversource's Berlin Campus located at 107 Selden Street in Berlin, Connecticut (the Site). Pre-characterization sampling has been completed in accordance with 40 CFR 761.61(a) Subpart N, the Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste. Several variations from Subpart N are proposed in the Plan, hence the attached Plan represents a hybrid self-implementing (40 CFR 761.61(a)) and a risk-based (40 CFR 761.61(c)) cleanup approach.

The Plan presents the results of the pre-characterization program and serves as the notification and certification of cleanup activities planned for the Site, as required by 40 CFR 761.61. This notification has also been submitted to the Connecticut Department of Energy and Environmental Protection and the Central Office for the Central Connecticut Health District.

If you have any questions regarding the attached, please contact Christopher Soroka from Eversource Energy at 860-665-5493 or Kenneth Gendron from Weston & Sampson at 978-532-1900, ext. 2501.

Very truly yours,

EVERSOURCE ENERGY

Christopher A. Soroka, Senior Environmental Specialist for
Daniel Watton, Manager – Environmental Cost, Risk and Site Management

Enclosure

cc: Gary Trombly, CTDEEP – PCB Program
Paul Hutcheon, Central Connecticut Health District – Central Office
Malcolm Beeler, Weston & Sampson



Weston&Sampson®
environmental/infrastructure consultants

273 Dividend Road, Rocky Hill, CT 06067
tel: 860-513-1473 fax: 860-513-1483

report

Self-Implementing and Risk-Based Hybrid Cleanup Plan

Eversource Energy – Berlin Campus
Stormwater Settling Basin
107 Selden Street
Berlin, Connecticut

Prepared on behalf of:
Eversource Energy
107 Selden Street
Berlin, Connecticut

September 2015

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1.0 INTRODUCTION

Weston & Sampson, Inc. (Weston & Sampson) has prepared this *Self-Implementing and Risk Based Hybrid Cleanup Plan* (Plan)on behalf of Eversource Energy (Eversource), for pre-characterization, removal, disposal, and remediation of soil impacted with polychlorinated biphenyls (PCBs) at a storm water settling basin and adjacent upland/wooded area located on Eversource's Berlin Campus located in Berlin, Connecticut (the Site).

Weston & Sampson has recently completed pre-characterization sampling in general accordance with 40 CFR 761.61(a) Subpart N, the Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste. Several variations from Subpart N are proposed in this cleanup plan, hence the proposed plan is a hybrid self-implementing (40 CFR 761.61(a)) and a risk-based (40 CFR 761.61(c)) cleanup approach. This report describes the results of the pre-characterization program and serves as the notification and certification of cleanup activities planned for the Site, as required by 40 CFR 761.61, including the following:

In accordance with 40 CFR 761.61(a)(3), this Plan contains the following:

- (A) – Discussion of the nature and extent of contamination;
- (B) – A summary of procedures used to sample impacted areas and associated tables presenting the analytical gathered during the investigation;
- (C) – The location and extent of the impacted area with references;
- (D) – The cleanup plan, schedule and disposal technologies and approach; and
  (E) – Written certifications by the property owner and laboratory and subsequent to approval and selection, the remediation contractor.

During previous field investigations conducted at the Site by Eversource and Weston & Sampson, as well as the most recent pre-characterization sampling activities associated with the remedial investigation sampling plan, PCBs were detected in site soil as well as sediment in an adjacent stream. Eversource is proposing to remove and dispose of impacted soil at the Site containing PCBs greater than 25 milligrams-per-kilogram (mg/kg) as well as excavating and capping PCB impacted soils with concentrations greater than 10 mg/kg and less than 25 mg/kg. Under the Risk-Based portion of this Plan, soils with PCB concentrations less than 10 mg/kg will remain in place under an Environmental Land Use Restriction (ELUR) with access restricted by a locked, chain-link fence with warning signage. The Plan presented below describes the field and analytical methods for pre-characterization of which are subject to the Toxic Substance Control Act (TSCA) regulations.

This approach is more conservative than the self-implementing cleanup standards for low-occupancy areas (<25 mg/kg per 761.61(a)(4)(i)(B) and includes capping of soils consistent with high occupancy standards 761.61(a)(4)(i)(A). The Site is characterized as a low-occupancy area per 761.3 since individuals are not present in this area for more than 6.7 hours per week or 335 hours per year. Further, the Site is and will continue to be fenced preventing access from Eversource employees, visitors and other individuals.

Additionally, since the self-implementing portion of this Plan will be performed in a more conservative manner using the prescribed cleanup levels from the self-implementing approach, a site-specific Human Health Risk Assessment is not required per 761.61(c). As this Plan describes, all soils with PCB concentrations greater than 10 mg/kg will either be emplaced under a cap designed/constructed in accordance with 761.61(a)(7) or disposed off-site.

1.1 Applicability

Cleanup at the Site will be limited to soils from interior and exterior portions of the settling basin. No groundwater, surface water, sediments, sewers, sewage treatment systems, private or

public drinking water sources or distribution systems, grazing lands, or vegetable gardens will be part of the Site cleanup. Therefore, the Site meets the applicability criteria necessary for use of the self-implementing procedures, as provided in *40 CFR 761.61(a) Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste.* However, as described above, this Plan is a hybrid of 761.61(a) and 761.61(c) since variations to the self-implementing procedures are proposed.

1.2 Notifications

In addition to submitting this report to the U.S. Environmental Protection Agency (EPA) Region 1 officials, a copy of this report has been provided to the following representatives of State and local agencies, and serves as notification of Eversource's intent to remediate the Site:

Mr. Gary Trombly
Connecticut Department of Energy and Environmental Protection
Waste Engineering and Enforcement Division
PCB Program
79 Elm Street
Hartford, CT 06106-5127; and

Mr. Paul Hutcheon
Director of Health
Central Connecticut Health District – *Central Office*
505 Silas Deane Highway
Wethersfield, CT 06109.

2.0 SITE DESCRIPTION

The approximate 8,000 square-foot stormwater settling basin and upland/wooded area (the "Site") is located southeast of the parking garage on Eversource's Berlin Campus located at 107 Selden Street, Berlin, Connecticut. The location of the Site is shown on **Figure 1** (Site Locus Map), sensitive receptors around the Site are shown in **Figure 2** (Area Receptors Map), an aerial plan of the Site is shown in **Figure 3** (Aerial Site Plan) and the significant Site features are shown in **Figure 4** (Existing Conditions Plan). The settling basin receives storm water from two inlets connected to three catch basins located in a paved parking lot located upgradient of the Site and along the southeast side of the parking garage.

The Site is surrounded by a parking garage and paved area to the northwest and west, an access road off Deming Road followed by undeveloped wooded land to the north and east, and heavily vegetated/wooded undeveloped land to the south.

Topographically, the Site slopes from northwest to southeast and is located within a drainage low situated between topographic highs to the north, east, south, and west of the settling basin. With the exception of the parking garage, a majority of the surrounding land is undeveloped and densely vegetated. Soil at the Site consists of light brown fine to coarse sand in the upper 2.5 feet (ft.) in the vicinity of the two inlets to the settling basin. Subsurface soil in the remainder of the settling basin consists of approximately one (1) foot of dark brown fine sandy silt transitioning to a reddish brown fine sand and clay underlain by up to seven (7) ft. of red-brown sand and fine gravel.

Groundwater at the Site is classified by the Connecticut Department of Energy and Environmental Protection (CTDEEP) as GA. The GA classification means that the groundwater is presumed to be suitable for drinking without treatment. Groundwater elevation beneath the Site may be variable throughout the year due to seasonal fluctuation within the basin but was encountered approximately 6 feet below surface grade (bsg). The closest water body is an unnamed stream, located approximately 70 ft. southwest of the outlet from the settling basin. Stormwater overflows from the settling basin into the top of an outlet structure, travels underground in a 36-inch reinforced concrete pipe, then discharges to the unnamed stream referenced above.

2.1 Conceptual Site Model

Weston & Sampson was retained by Eversource to evaluate the nature and extent of PCB-impacted soil at the Site for the purposes of remediation of PCB impacted areas. In July 2010, Eversource) conducted pre-characterization of the soil located along the base of the settling basin in support of a project to remove the material that accumulated along the bottom of the settling basin. The soil samples collected as part of the pre-construction characterization indicated the presence of low level PCBs in shallow soils located in the southern and central regions of the settling basin. Based upon these results, additional investigation and sampling was warranted prior to the commencement of remediation/restoration activities, due to the presence of PCBs above regulatory criteria. Additional investigations were conducted by Weston & Sampson from December 2011 through July 2015 and consisted of the advancement of soil borings; the installation of monitoring wells; and the collection and analysis of soil, groundwater, and sediment samples.

Based upon the soil and sediment analytical data collected during the additional investigations, PCB-impacted soil (>1 mg/kg) was identified in both the interior and exterior portions of the settling basin. The vertical extent of PCB impacts have been defined to five feet below grade or less in most areas of the Site, with the exception of two areas where PCB impacts extend to 6 to 7 ft. below grade. Low level PCB concentrations were detected in select sediment sample

locations collected from the unnamed stream adjacent to the settling pond. PCB impacts to sediments were assessed and addressed via a Screening Level Ecological Risk Assessment (SLERA) completed by Anchor QEA and Weston & Sampson, the results of which determined that no risk is present relative to the PCB concentrations detected in sediment. A copy of the SLERA is included in Appendix A.

Six groundwater monitoring wells were installed in July 2015 at locations both inside and outside the settling basin, as well as at upgradient and downgradient locations. The groundwater analytical results indicate that groundwater has not been impacted by PCBs at the Site. The groundwater table in the settling basin area appears to somewhat variable, as groundwater was not present in monitoring well MW-4 (northeast corner of the basin area).

The conceptual site model presents two possible release mechanisms for PCBs at the Site.

1. Based upon a historic aerial photograph dated August 21, 1969 and interviews with knowledgeable Eversource staff, this location on the Berlin campus was historically utilized as a line training area. The training area may have utilized PCB oil-containing equipment which could have potentially released PCBs to the environment. It is plausible that the PCB impacts discovered upon Eversource's characterization event and subsequent Weston & Sampson sampling events were remnants from previously impacted soils from releases associated with the training area. It is also possible that the distribution of PCB impacts, particularly outside the basin, are a result of previously impacted soils being manipulated and/or redistributed during the construction of the basin and/or PCB-impacted soil from other areas used to construct and/or grade the hillside and other impacted portions of the Site.
2. Another potential release mechanism for PCBs to the environment involves the migration of PCB-impacted fine-grained sediment or PCB containing oils originating from the upgradient equipment storage area to the above-referenced catch basins. PCB-impacted soil outside the perimeter of the settling basin may likely be a result of periodic flooding or overflow of the settling basin. However, this scenario is unlikely given the random distribution and severity of PCB impacts located at the Site and the fact that PCBs were not identified in catch basin sediments.

Due to the random distribution and severity of PCB impacts located at the Site and the fact that PCBs were not identified in catch basin sediments, the second scenario is considerably unlikely. Therefore, PCB impacts at the Site are most likely attributed to the historic use of this area as a line training area that resulted in PCB impacts from the manipulation and/or redistribution of the impacted soils during the construction of the basin and other construction or earth-moving activities in this area of the property.

Based upon our understanding of the Site, exposure routes for PCBs at the site consist of trespassers, construction workers and Eversource employees coming in direct contact with soil or soil-derived dust. Groundwater has not been and is not expected to become, impacted by PCBs. Sediment, although exhibiting randomly distributed very low concentrations of PCBs, has been determined through a screening level ecological risk assessment to not be a source for PCB exposure. Based upon comments received from CTDEEP on the SLERA, ecological risk to receptors is negligible and no further study is needed.

3.0 NOTIFICATION AND CERTIFICATION

3.1 The Nature of Impacts

Eversource and its subsidiary company (Northeast Utilities) have operated the Site and overall campus for a period of approximately 62 years. The storm water settling basin was constructed in 1992 concurrent with the construction of the aforementioned parking garage. The settling basin receives storm water from two inlets connected to three catch basins located in a paved parking lot along the southeast side of the Eversource parking garage. This paved parking lot was previously and is currently utilized for the storage of various oil containing electrical equipment.

The exact source of PCBs is unknown however the conceptual site model presented in section 2.0 describes the likely source.

3.2 Summary of Assessment Procedures and Results

Numerous site investigations have been conducted at the Site since 2010. A discussion of each subsurface investigation is presented in the following sections.

3.2.1 Historic Sampling Events

Pre-Construction Characterization (July 2010-January 2012)

Following notification to the Town of Berlin Wetlands Agent regarding the proposed assessment activities, Eversource completed pre- characterization of the soil located in the settling basin on July 19, 2010 in support of a project to remove material accumulated in the settling basin. Soil samples were collected from five of seven hand auger boring locations (TP-01, TP-03, TP-04, TP-05, and TP-07) and submitted to a laboratory for typical pre-characterization parameters. A blind duplicate sample was also collected from one sample location for Quality Assurance/Quality Control (QA/QC) purposes. See Table 1 for a summary of July 2010 soil sample analytical results. During this investigation, the presence of low level PCB-impacted soil was documented in shallow soils in two samples located in the southern and central regions of the settling basin at concentrations exceeding the CTDEEP Residential Direct Exposure Criteria (RDEC) of 1 mg/kg.

Based upon the initial sampling results, Eversource completed additional investigation activities due to the presence of PCBs above applicable regulatory criteria. On December 19, 2011, Weston & Sampson, on behalf of Eversource, mobilized New England Geotech, LLC (NEG) of Jamestown, Rhode Island to advance fifteen (15) soil borings (WSE-1 through WSE-15) utilizing Geoprobe® direct-push technologies.

The Geoprobe® sampling device consisted of a 5-foot long, 2-inch diameter, stainless steel, macro core sampler and a disposable acetate liner. Direct-push test borings were advanced to depths of up to 8 ft. below grade. Discrete soil samples were collected from 0.5 ft. depth intervals from ground surface to 4.0 ft. within the settling basin. A deeper discrete soil sample was collected at one location at a depth of 6.5 ft. to 7.0 ft. below surface grade (bsg).

Sampling equipment including the macro core sampler and Geoprobe® rod were decontaminated on-site during and at the conclusion of sampling in accordance with 40 CFR 761.79 (c)(2)(ii). This double-wash/rinse method for decontaminating non-porous surfaces utilizing a hexane solvent was utilized following removal and disposal of the acetate liners. Solid and liquid investigation derived wastes (IDW), such as acetate liners, gloves, decontamination liquids, etc., generated from sampling activities were

containerized in separate 55-gallon drum(s) (one drum for solids and one drum for liquids) for off-Site disposal at a TSCA-certified facility under waste manifest documentation.

Thirty-one (31) soil samples were submitted under a chain of custody to ConTest Analytical Laboratory (ConTest), a Connecticut certified analytical laboratory, located in East Longmeadow, Massachusetts (CT certified laboratory PH 0567). The samples were submitted for analysis of PCBs via EPA Method 8082 Soxhlet Extraction Method 3540C.

With the exception of four soil sampling locations (WSE-5, WSE-7, WSE-8, and WSE-12), PCBs were detected in soil at 0.5 ft. to 2.0 ft. and 2.0 ft. to 4.0 ft. PCBs were also detected at 550 mg/kg at a depth of 6.5 ft. to 7.0 ft. below grade from the deep discrete soil sample. PCBs were not detected above the laboratory reporting limits in WSE-5, WSE-7, WSE-8, and WSE-12. See Table 2 for a summary of the December 2011 and January 2012 soil sample analytical results.

On January 11, 2012, Weston & Sampson personnel collected three discrete sediment samples (WSE-16, WSE-17, and WSE-18) downstream of the settling basin outfall. Samples were collected 0.5 ft. into the sediment within the stream bed.

In addition, a sediment sample (CB-1) was collected from one of three catch basins located in the paved parking area located southeast of the parking garage. Collection of sediment from the other two catch basins was not feasible since there was either no sediment or less than three inches of sediment at these locations. The sediment samples were preserved and kept chilled in accordance with applicable testing methods. A total of four (4) sediment samples, three downstream (WSE-16, WSE-17, and WSE-18) and one catch basin (CB-1), were submitted under a chain of custody to Con Test. The samples were submitted for analysis of PCBs via EPA Method 8082 by Soxhlet Extraction Method 3540C. .

PCBs were detected in one of the downstream sediment samples at a concentration of 0.23 mg/kg. PCBs were not detected above the laboratory reporting limit 0.12 mg/kg in samples in the remaining two downstream samples nor the catch basin sample. A summary of soil sample analytical results for the downstream sediment samples and catch basin samples can also be found in Table 2.

Based on this supplemental analytical data, the detected concentrations of PCBs in soil appear to be distributed within the central and southern portions of the settling basin. Data gaps existed based on the lateral/vertical distribution of PCBs detected during this round of sampling. To meet the characterization requirements of Sub Part N Cleanup Site Characterization Sampling for PCB Remediation Waste {(40 CFR 761.61 (a)(2)} additional soil sampling was required.

Remedial Investigation (June 2012-September 2014)

Based on the results of the December 19, 2011 supplemental investigation, a *Remedial Investigation Sampling Plan* was developed by Weston & Sampson in February 2012 to further define the lateral/vertical extents of the PCB-impacted soils previously identified within and potentially outside of the settling basin.

The initial remedial investigation activities were executed over a span of five days on June 26, 2012 through June 29, 2012 and July 2, 2012. Similar to the December 2011 sampling event, NEG advanced eighty-nine (89) borings (B-1 through B-97 series borings) utilizing Geoprobe® direct-push technologies under the observation of Weston &

Sampson personnel (**Figure 5** – Sampling Location Plan). The soil borings were spaced approximately 10 feet apart in a grid-like pattern across the interior and exterior of the basin and approximately 5 feet apart immediately downgradient of the discharge locations of both inlets. The secondary column of proposed soil borings within the wooded area along the southern/southwestern boundary of the settling basin were eliminated from the investigation due to accessibility issues for the drill rig.

Discrete soil samples were collected at a 6-inch sampling interval at 2 foot vertical increments to a depth of 10 feet. Discrete soil samples were submitted for laboratory analysis for the majority of the borings located at the northwest interior corner of the basin. This area was chosen for discrete sampling due to the elevated PCB results of soil samples collected in this area during previous sampling events, including the PCB exceedence at depth.

Composite sampling was conducted along the exterior of the settling basin as well as at the remainder of the areas inside the settling basin where a discrete sample was not initially submitted. Composite samples consisted of combining soil from two, three, or four adjoining nodes into a single sample for analysis. In general, composite samples were collected from the same vertical soil horizon including either a shallow depth (0.0-2.0 ft.), intermediate depth (2.0-4.0 ft.), or deep depth (8.0-10.0 ft.). Based upon the number of nodes combined to create the composite, results of the composite samples were compared to an adjusted mg/kg criterion as follows: 2 nodes at 0.5 mg/kg, 3-nodes at 0.33 mg/kg and 4 nodes at 0.25 mg/kg. Based on composite sampling results, select discrete soil samples from which the composite included were activated for analysis.

The composite and discrete soil sample analytical results are presented in Tables 3, 3A and 4. Table 3 is a presentation of the composite sample analytical data; Table 3A is a composite sample key that identified which boring samples were combined to form each composite sample. Table 4 is a summary of the resultant analyses of the discrete soil samples collected from each boring that was composited.

All discrete and composite samples were submitted to ConTest for analysis of PCBs via 8082 by Soxhlet Extraction Method 3540C.

Field QA/QC procedures included the collection of blind duplicate samples at a frequency of one duplicate per twenty samples. A total of seventy (74) composite soil samples, including four duplicate composite samples and two hundred ninety (290) discrete soil samples, including thirteen duplicate samples, were submitted for laboratory analysis.

An equipment blank was also collected at the completion of the sampling event by pouring de-ionized water through a decontaminated macro corer used to collect the soil samples. The equipment blank was also submitted to ConTest for PCB analysis via the 8082 Method without the Soxhlet Extraction Method 3540C because the extraction cannot be performed on aqueous samples. A summary of equipment blank analytical data can be found in Table 7.

The macro coring equipment used to collect the soil samples and any equipment used to composite samples was decontaminated using the following procedure:

- A 55-gallon drum was set up on a 6-mil. polyethylene bermed area;
- Soil was physically removed with a brush and Alconox rinse;
- Equipment was rinsed with distilled water;
- Equipment was then rinsed with hexane rinse; and
- Equipment was rinsed with distilled water as a final rinse.

Rinsate was placed into a 55-gallon drum. Also, due to the potential presence of PCBs, any solid or liquid IDW (acetate liners, gloves, decontamination liquids, etc.) generated from sampling activities were containerized in 55-gallon drums for liquids and a roll-off dumpster for solids. IDW (solid and liquids) were disposed of off-Site at a TSCA-certified facility under waste manifest documentation.

IDW generated were placed in Department of Transportation (DOT) approved 55-gallon drums and/or roll-off and labeled in accordance with 40 CFR 761 subpart C. The drums/roll-off were transported off Site in containers meeting the requirements of the DOT Hazardous Materials Regulations (DOT HMR) at 40 CFR parts 171-180, as stated in 40 CFR 761.61(a)(5)(B).

On April 18, 2014 and April 25, 2014, supplemental remedial investigation activities were conducted by Weston & Sampson personnel to further characterize the nature and extent of PCB impacts at the Site and consisted of the advancement of twenty-four (24) borings (B-99 through B-122) – See **Figure 5** for sampling locations. The April 2014 soil borings were conducted in the same manner as the initial remedial investigation activities that were completed on June 26, 2012 through June 29, 2012 and July 2, 2012.

NEG, under the observation of Weston & Sampson, advanced the twenty-four (24) borings utilizing Geoprobe® direct-push technologies. The soil borings were spaced approximately 10 feet apart in a grid-like pattern from the northwest to the southwest side of the settling basin. Discrete soil samples were collected at 0.5 ft. sampling intervals at 2 feet increments to a depth of 10 ft. and were submitted to ConTest for analysis of PCBs via 8082 by Soxhlet Extraction Method 3540C.

Field QA/QC procedures included the collection of blind duplicate samples at a frequency of one duplicate per twenty samples. A total of one hundred twenty seven (127) discrete soil samples, including seven duplicate samples, were submitted for laboratory analysis.

Equipment blanks were also collected at the completion of each field day using the same process as previously described for the 2012 initial remedial investigation (by pouring de-ionized water through a decontaminated macro corer used to collect the soil samples). The equipment blanks were submitted to ConTest for PCB via the 8082 Method, and a summary of equipment rinse blanks can be found in Table 7.

The equipment and decontamination procedures used were the same as those outlined above for the 2012 initial remedial investigation. The April 2014 soil analytical results are presented in Table 5.

Sediment Investigation (2014)

In response to CTDEEP input on the January 2012 sediment data, Weston & Sampson conducted additional sediment sampling in April and September 2014 for PCBs from the unnamed stream adjacent to the settling pond. The samples were to be analyzed by ConTest using the lowest technically practicable reporting limit for the April and September sampling. On April 25 & 28 2014, sediment samples (S-1 through S-11) were collected by Weston & Sampson from 11 locations within the stream along an approximately 1,000-foot reach. On September 3, 2014, Weston & Sampson and ecological risk assessor, Anchor QEA personnel, collected six sediment samples (AQ-1 through AQ-6) for risk assessment purposes. The September 2014 sediment sampling included: re-sampling certain locations from the April 2014 sampling event; collecting sediment from new locations within the stream reach in the immediate vicinity of the

outlet from the settling basin and an upstream reference location; and obtaining total organic carbon (TOC) and grain size data to support evaluation of benthic substrate and exposure pathway assessment in the risk assessment. Based upon their review of the data, calculations and opinions presented in the screening report, CTDEEP opined that "…the ecological risk to receptors is negligible and no further study is needed." A copy of CTDEEP's email response is included with the screening report in Appendix A of this report. Additional details of the sediment sampling are provided in the *Screening Level Ecological Risk Assessment* Report, prepared by Anchor QEA, LLC and submitted to CTDEEP in January 2015, included in Appendix A.

3.2.2 2015 Sampling Events (May 2015-July 2015)

Between May 11, 2015 and July 9, 2015, Weston & Sampson performed additional investigation activities including the advancement of soil borings, installation of groundwater monitoring wells, and collection of soil and groundwater samples. This investigation was conducted in the same manner as the initial remedial investigation activities that have been completed at the Site.

During the week of May 11, 2015, Weston & Sampson personnel observed NEG complete the advancement of 63 soil borings (B-123 through B-186 and boring B-144 were inadvertently omitted from the numbering scheme) surrounding the detention basin. The borings were advanced to a maximum depth of 5 feet below grade. This termination depth was selected based on historical data obtained from outside the basin structure that indicated PCBs were less than 1.0 mg/kg at depths greater than 5 feet.

Soil samples were collected from each boring at 1 foot intervals over the span of the five-foot sample. Each sample was submitted to ConTest for PCB analysis via soxhlet extraction. Initially, the top two or three samples were immediately extracted and analyzed. Subsequent to receipt of the analytical data, additional samples from each boring were extracted and analyzed until PCB concentrations were reported as less than 1 mg/kg or all 5 samples from borings in questions were analyzed. It should be noted that of the 315 samples collected, 12 were not extracted within the required hold times. Those 12 samples were analyzed to obtain at least reference data. It should be noted that the few samples that were analyzed beyond their hold times revealed PCB concentrations less than 1 mg/kg and for the most part, in areas where the delays were inconsequential to the overall assessment plan for this site, meaning that those samples were either on the outer limits of the investigation or in areas where additional post-remediation sampling would still be required.

Equipment blanks were again collected at the completion of each field day using the same process as previously described for the 2012 and 2014 remedial investigations. The equipment blanks were submitted to ConTest for PCB via the 8082 Method, and a summary of equipment rinse blanks can be found in Table 7. The equipment and decontamination procedures used were also the same as those outlined above for the 2012 and 2014 remedial investigations.

The results of the May 2015 investigation accomplished defining the horizontal and vertical extents for approximately 95% of the impacted area. The vertical extent of PCB impacts identified during the completion of this portion of the investigation has been defined to 7 feet below grade or less. The horizontal extent of PCB impacts less than 10 mg/kg has been 100% defined. With the exception of the northeast corner, along campus drive and a small portion of the southern tip of the basin/impacted area, the horizontal limits of PCB impacts have been defined to less than 1 mg/kg. A summary of

soil sample analytical results for the May and June 2015 soil samples can also be found in Table 5.

On June 30, 2015, Weston & Sampson and NEG returned to the site to install 6 groundwater monitoring wells (MW-1 through MW-6) and to advance one additional soil boring (B-187) at the site. The purpose of boring B-187 was to attempt to delineate the northeastern extent of PCB impacts. Although the surficial sample (0 – 1') reported a PCB concentration of 2.1 mg/kg, the 1 – 2' and 2 – 3' samples both reported PCB concentrations of less than 1 mg/kg.

Upon installation of the groundwater monitoring wells on June 30, 2015, the wells were developed and allowed to stabilize prior to sampling. Two of the wells were installed in the areas that exhibited the highest concentrations of PCBs in soil, others in downgradient locations and the remaining in upgradient locations or randomly placed to assess all potential contributors to potential impact groundwater. Groundwater samples were collected on July 9, 2015. Monitoring well MW-4 was dry and thus not sampled. The groundwater samples were submitted to ConTest for PCB analysis. All five groundwater samples reported non-detectable concentrations of PCBs [less than 0.2 micrograms-per-liter (µg/L)]. See Table 6 for a summary of July 2015 groundwater sample analytical results. Based on the data, PCBs have not impacted groundwater beneath the site. Copies of all the laboratory analytical reports are included in Appendix B.

3.3 Location and Extent of the Identified Impacted Areas

Figure 6 has been developed utilizing results of sampling conducted on-site and represents current conditions. The locations of the samples containing PCB concentration ranges are depicted in **Figure 6**. Concentration ranges for total PCBs are color coded and include the following:

- Less than (<) 1 mg/kg presented in blue;
- < 10 mg/kg presented in green;
- < 25 mg/kg presented in brown;
- < 50 mg/kg presented in orange; and
- > 50 mg/kg presented in purple.

The estimated extent of PCB impacted soils proposed for remediation is illustrated on **Figure 7**. Soils will be excavated at the following locations to the indicated targeted depths:

- 7 ft. in the areas between WSE-3 and B-56
- 6 ft. in the areas between B-113, B-18, B-27, B-51, B-29 and B-119
- 5 ft. in the area of B-40, B-124 and B-125, as well as B-16 and the areas between B-105, B-10, B-17 and B-109
- 4 ft. in the areas between B-99, B-102 and B-103
- 2 ft. in the areas between B-141, B-115, B-120 and B-156, as well as B-176.

Overall, the highest PCB impacts appear to exist to a depth of 7.0 feet inside the basin and 6.0 feet outside the settling basin. Particularly, the areas of the basin containing PCB concentrations >25 mg/kg, are located within the southwest quadrant of the basin, and areas containing greater than 50 mg/kg PCB along the northwest and north-central regions of the basin. Beyond 6.0 feet, PCB concentrations within the settling basin decrease significantly. Some of the highest PCB concentrations are located along the outside southern perimeter of the basin. PCB impacts observed along this southern boundary consistently decrease with depth up to 6.0 feet and continue to decrease markedly to BDL by 10 feet below surface grade. Based upon the data compiled to date it appears that PCB-impacts have been defined vertically

within and outside of the basin, as well as laterally outside of the basin consistent with the TSCA's low occupancy standard of 25 mg/kg and CTDEEP's industrial/commercial standard of 10 mg/kg.

On September 19, 2012, CL&P filed a Significant Environmental Hazard (SEH) Notification with the CTDEEP. The specific contaminant of concern triggering this reporting requirement was PCBs, which was found in excess of the SEH concentration of 30 mg/kg in soil within the upper two feet of the ground surface at three boring locations (B-16, B-28, and B-51). The SEH documented that surface soil contamination was due to a release of PCBs. The locations of these detections are restricted by means of a locked, gated fence with appropriate signage.

Two additional SEH notifications were completed and submitted to CTDEEP by Eversource on July 2, 2014 and June 8, 2015, and they include the elevated PCB concentrations above the SEH threshold detected in surficial soil collected from borings B-113, B-116, B-117, B-119, B-142 and B-156. The fence line was expanded to include these areas and restrict access to impacted surficial soils.

4.0 SITE CLEANUP PLAN

4.1 Cleanup Plan Objectives, Approach and Proposed Schedule

The following sections present the proposed remedial actions for the Site. These actions include removal and subsequent disposal of soils with equal to or greater than 25 mg/kg of PCBs, on-site consolidation and capping of soils greater than 10 mg/kg but less than 25 mg/kg of PCBs, restricted access to soils with PCB concentrations <10 mg/kg but greater than 1 mg/kg, construction of an engineered barrier preventing access to soils containing greater than 10 mg/kg beneath the cap, and implementation of an Environmental Land Use Restriction (ELUR)/Deed Restriction for the area containing >1 mg/kg.

Eversource proposes the following schedule for the Site cleanup:

Task	**Proposed/Estimated Time Frame**
Submittal to EPA/CTDEEP of Remedial Plan	September 2015
EPA Approval	December 2015
Contractor Bidding and Selection	January -May 2016
Impacted Soil Excavation, and Cleanup Verification Sampling	June-September 2016
Post Cleanup Reporting	October-December 2016

A Health & Safety Plan (HASP) will be prepared by a Certified Industrial Hygienist (CIH) in accordance with 29 CFR 1910.120 by the selected remediation contractor prior to commencement of remedial activities. The HASP will specify personnel protective equipment, ambient monitoring requirements and emergency response procedures.

4.2 Air Monitoring and Environmental Protection

During excavation activities, the contractor shall monitor real-time dust concentrations and implement dust control methods to reduce or eliminate airborne dust emissions. An action limit of 120 micrograms-per-cubic meter ($\mu g/m^3$) dust will be utilized which represents 80% of the 24-hour US EPA National Ambient Air Quality Standards (NAAQS) for PM 10 (NAAQS is 150 $\mu g/m^3$. If dust concentrations exceed this level, work will be stopped until engineering controls or additional dust control measures (e.g. water missing, wind barriers etc.) are implemented.

Work conducted in the field will be performed under a HASP prepared and/or approved by a CIH. The HASP will specify personnel protective equipment, ambient monitoring requirements and emergency response procedures.

4.2.1 Erosion and Sedimentation Control Measures

Proper erosion and sedimentation control measures will be employed during the remediation activities. Sedimentation controls will be installed along the upgradient and downgradient perimeter areas of the site that will receive stormwater from soil excavation activities. These structures will be observed and maintained on a regular basis for the duration of the project and will be installed prior to commencing field activities. Perimeter sedimentation control will include silt fencing, filtration logs or hay bales installed along the perimeter of the work zone, in stockpile/staging areas, or as needed.

4.2.2 Dewatering

The maximum depth of anticipated excavation is approximately 7 feet bsg and the depth to groundwater is approximately 6 feet bsg. The maximum anticipated area to be excavated at a depth of 7 feet bsg is approximately 1,500 square feet. Therefore, given the relative small area that will be intersecting the groundwater table, dewatering activities are not anticipated or proposed as part of the remedial plan.

4.3 Off-Site Management of Soils

The selected remediation contractor will be responsible for off-site soil disposal based upon the pre-characterization soil sampling results. The contractor will also be responsible for the preparation of manifests and other documentation required for off-site disposal of impacted soil. Excavated soil will be placed directly into a lined/sealed, roll-off container that will also be used for storage of impacted soil.

- PCB-impacted soil will be temporarily stockpiled on-Site. In addition, soil from areas with known PCB concentrations greater than or equal to 50 mg/kg will be segregated and stockpiled separately from materials with PCB concentrations less than 50 mg/kg. Soil staging will be performed in keeping with the general principles of the CTDEEP soil staging permit but a formal CTDEEP registration is not required because the material will be on-site less than 30 days per TSCA requirements.
- **Remediation Waste with PCBs ≥ 50 mg/kg** will be transported and disposed off-site as at a TSCA-certified disposal facility;
- **Remediation Waste PCBs ≥ 25 mg/kg and <50 mg/kg** will be transported and disposed off-site at an out-of-state RCRA Subtitle D landfill ;
- **Remediation Waste PCBs ≥ 10 mg/kg and <25 mg/kg** will be consolidated within the settling basin and capped; and
- **Remediation Waste PCBs <10 mg/kg** will be left in place.

As shown on Tables 1 through 3, there are a total of eleven boring locations with PCB concentrations at varying depths exceeding 50 mg/kg. These soils will be excavated, containerized and shipped off-site to a TSCA-certified Subtitle C landfill for disposal. The estimated volume of PCB-impacted soils greater than 50 mg/kg is approximately 340 cubic yards.

It is requested that soils containing PCB concentrations greater than 25 mg/kg but less than 50 mg/kg be disposed at a Non-TSCA Subtitle D landfill such as Waste Management's Turnkey landfill facility in Rochester, New Hampshire. Preliminary estimates show that approximately 1,160 cubic yards of Non-TSCA PCB-impacted soil will be generated and shipped off-site.

4.4 On-Site Consolidation of Soils

Once the off-site disposal of >25 mg/kg PCB-impacted soils has been completed, soil with PCB concentrations >10 and <25 mg/kg will be consolidated within the settling basin and capped with an engineered barrier/control.

Soil exhibiting PCB impacts less than 10 mg/kg will remain in place in accordance with EPA and CTDEEP regulations; access to these areas will be restricted by fencing with signage and an ELUR will be placed over the area with PCB impacts greater than 1 mg/kg. This approach assumes that the remaining PCB impacts do not exceed CT RSR Pollutant Mobility Criteria.

4.5 Engineered Barrier

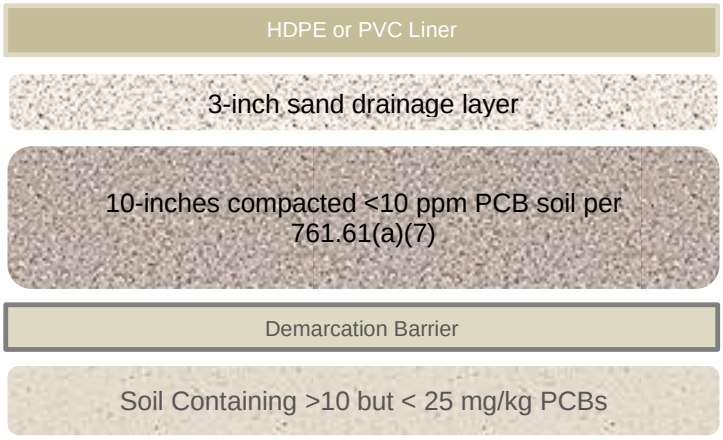
The proposed cap area is located within the settling basin. A standard cap is proposed and will consist of an orange geotextile demarcation barrier or black geotextile fabric with an orange

snow fence demarcation barrier and then ten inches of compacted soil meeting the following TSCA criteria per 761.61(a)(7):

- Permeability: $<1x10^{-7}$ cm/s
- % passing 200 sieve: > 30
- Liquid limit: > 30
- Plasticity index: > 15

A new settling basin design also includes the installation of a high density polyethylene (HDPE) or polyvinyl chloride (PVC) liner and a sand protection/drainage layer over residual PCB-impacted soils to further ensure the remaining PCB-impacted (<10 mg/kg) soils remain environmentally isolated. A schematic of the proposed cap is shown below:

Proposed Cap



Based upon the area, berms surrounding the settling basin/cap area will be stabilized at a 3:1 slope. The proposed cap is located within a landscaped area, therefore the completion of the cap entails covering it with six inches of loam and then seeded. Trap rock/rip rap will be applied to appropriate areas as needed to mimic existing conditions and prevent soil erosion. The cap will be constructed to encompass the footprint of the settling basin, and will be designed in accordance with the requirements of 40 CFR 761.61(a)(7).

The footprint of the proposed cap area is depicted on **Figure 8**.

4.6 Restoration

Upon completion of excavation activities including cleanup verification soil sampling as presented in Section 4.9, the existing basin will be capped as described above in Section 4.5.

A new settling basin/stormwater system will be designed and constructed at a new on-site location (to be determined) outside of the capped area as part of the restoration activities planned for the site. Stormwater flows previously handled by the basin will be re-routed to a new 20,000 cubic foot sub-surface detention basin. This design includes re-routing and new overflow/discharge piping from the sub-surface detention basin around the former settling basin toward the stream. Final design will be determined upon completion of the remedial activities.

Further, the practice of storing oil filled electrical equipment, storage tanks, etc. in the parking lot upgradient of the settling basin will be evaluated in an effort to eliminate potential future releases.

4.7 Deed Restriction

As discussed with EPA on September 24, 2014, the proposed cleanup plan includes placing a deed restriction on the property in accordance with 761.61(a)(8to minimize potential exposures during future activities at the Site with the potential to disturb the cap or underlying post-remediation soils left in place. The deed restriction will be prepared in a manner consistent with RCSA 22a-133q-1 and contain a description of the residual PCB impacts remaining at the Site, a Soil Management Plan (SMP), identify futures activities at the Site that are consistent and inconsistent with the level of PCB impacts remaining, and outline a list of obligations and conditions necessary to ensure the cap is maintained. The deed restricted area will also be surrounded by a locked fence preventing access to the restricted areas.

The deed restricted area and proposed fence line surrounding the area is shown on **Figure 8**.

4.8 Storm Water Control

In preparation for storm event(s) during remediation/construction activities and as part of best management practices, erosion and sedimentation controls shall be implemented prior to commencement of work. These controls include the use of hay bales and silt fencing around the work area and in front of the outlet of the settling basin. The existing storm water system will be diverted around the work area and the basin outlet and catch basins located in the parking lot west/northwest of the settling of basin will be capped. Additionally, an anti-tracking pad consisting of stone will be located at the entrance of the construction site to prevent tracking of soils from heavy equipment off-Site.

4.9 Cleanup Verification Soil Sampling

In areas where the extent of impacts to less than 1 mg/kg have not been identified during precharacterization, cleanup verification soil sampling will be performed in accordance with 40 CFR 761 Subpart O. Individual samples will be collected in a grid pattern with 5-foot (1.5-meter) intervals along each sidewall and excavation bottom for laboratory analysis. The total number of samples that will be collected for cleanup verification analysis will be determined by the size of the finished excavation. All soil samples will be collected 0 to 3 inches beneath the excavation surface (walls and bottom), and the minimum volume of sample to be collected at each point will be specified by the laboratory. One blind duplicate sample per 20 samples collected will be submitted for PCB analysis by Soxhlet Extraction for QA/QC purposes. Since the extent of excavation over a majority of the proposed remediation area has been precharacterized, it is requested that cleanup verification sampling data be utilized to augment these data.

Excavation areas will be securely covered with polyethylene sheeting and secured until cleanup verification results are received and reviewed. If PCB concentrations in the cleanup verification samples are less than 10 mg/kg the excavation will be backfilled with clean soil (certified by the contractor). The analytical testing results of the backfill demonstrating that it is free of contaminants will be provided prior to importing onto the Site and will be submitted as part of the final cleanup report for the site. Otherwise, additional soil will be excavated in the locations where elevated PCBs were identified, and cleanup verification sampling will then be performed again in a similar grid manner.

4.10 Decontamination Wastes

Following the completion of the cleanup, the selected remediation contractor will be responsible for the decontamination of equipment that has come in contact with PCB impacted media (excavator bucket, hoe ram etc.) in accordance with 40 CFR 761.79. The contractor will verify the completeness of equipment decontamination by performing standard wipe tests in

accordance with 40 CFR 761 subpart P. Non-liquid cleaning materials and personal protective equipment waste and other non-liquid materials resulting from decontamination shall be disposed of in accordance with 40 CFR 761.61(a)(5)(v). The decontamination wastes generated will be placed in Department of Transportation (DOT) approved 55-gallon drums. The decontamination waste drums will be labeled in accordance with 40 CFR 761 subpart C, and temporarily stored on-site in a secure area prior to off-site disposal. The drums must be transported off-site in containers meeting the requirements of the DOT Hazardous Materials Regulations (DOT HMR) at 40 CFR parts 171-180, as stated in 40 CFR 761.61(a)(5)(B) and within the applicable storage timelines. At a minimum, the drum labels will indicate that the contents include PCBs, date of generation, and emergency contact information.

Composite samples will be collected from the decontamination waste drums for waste profile analysis. The results of the laboratory analysis will be evaluated to determine the method of off-site disposal by a licensed waste facility. The disposal method chosen will be based upon the decontamination methods used and the results of the waste characterization performed.

5.0 REMOVAL ACTION CLOSURE REPORT

A *Removal Action Closure Report* will be prepared summarizing the remedial activities performed and cleanup verification results. The report will include figures showing limits of excavation, pre-characterization and cleanup verification sampling locations, laboratory data and disposal/decontamination documentation. The report will be submitted to CTDEEP and the EPA for approval.

6.0 DOCUMENTATION CERTIFICATION

Enclosed in Appendix C is a written certification signed by Eversource certifying that all relevant documentation is on file at the offices of Eversource and are available for EPA inspection. In addition, a copy of the proposed certifications for the future remediation contractor and analytical laboratory are included in Appendix C. In addition, Eversource will submit a copy of the future contractor's work plan to EPA and CTDEEP as typically required by EPA in their approval of the SIP/Risk-based remedial plan.

7.0 LIMITATIONS

This *Self-Implementing and Risk-Based Hybrid Cleanup Plan* was prepared for the use of Eversource exclusively. 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 investigation, may result in a modification of the findings stated in this report.

Should additional information become available concerning this Site or neighboring properties which 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 upon current Site conditions observed by Weston & Sampson personnel at the time of the investigation, information provided by Eversource and samples collected and analyzed on the dates 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.

8.0 REFERENCES

Connecticut Department of Environmental Protection, 2002, Water Quality Standards; CTDEP, 2002.

http://magic.lib.uconn.edu/connecticut_data.html with sources from Connecticut Department of Environmental Protection, University of Connecticut Library Map and Geographic Information Center (MAGIC), United States Census Bureau, Trinity College, and other sources.

Multispectral Color Orthophotography at 1 foot GSD, 2012, 5k Tile# 005795 State Plane Zone 0600 (CT) projection, GeoTIFF file format for the entire state of Connecticut 1.0 Reston, VA

United States Environmental Protection Agency, 2005, 40 CFR (7-1-05 Edition) 761.61 PCB Remediation Waste.

United State Environmental Protection Agency, The Clean Air Act, Amended 1990, National Ambient Air Quality Standards, 40 CFR part 50.

United States Geological Survey, 2009, USGS The National Map (TNM), Hartford South Quadrangle, 7.5-Minute Series Topographic Map.

Figures

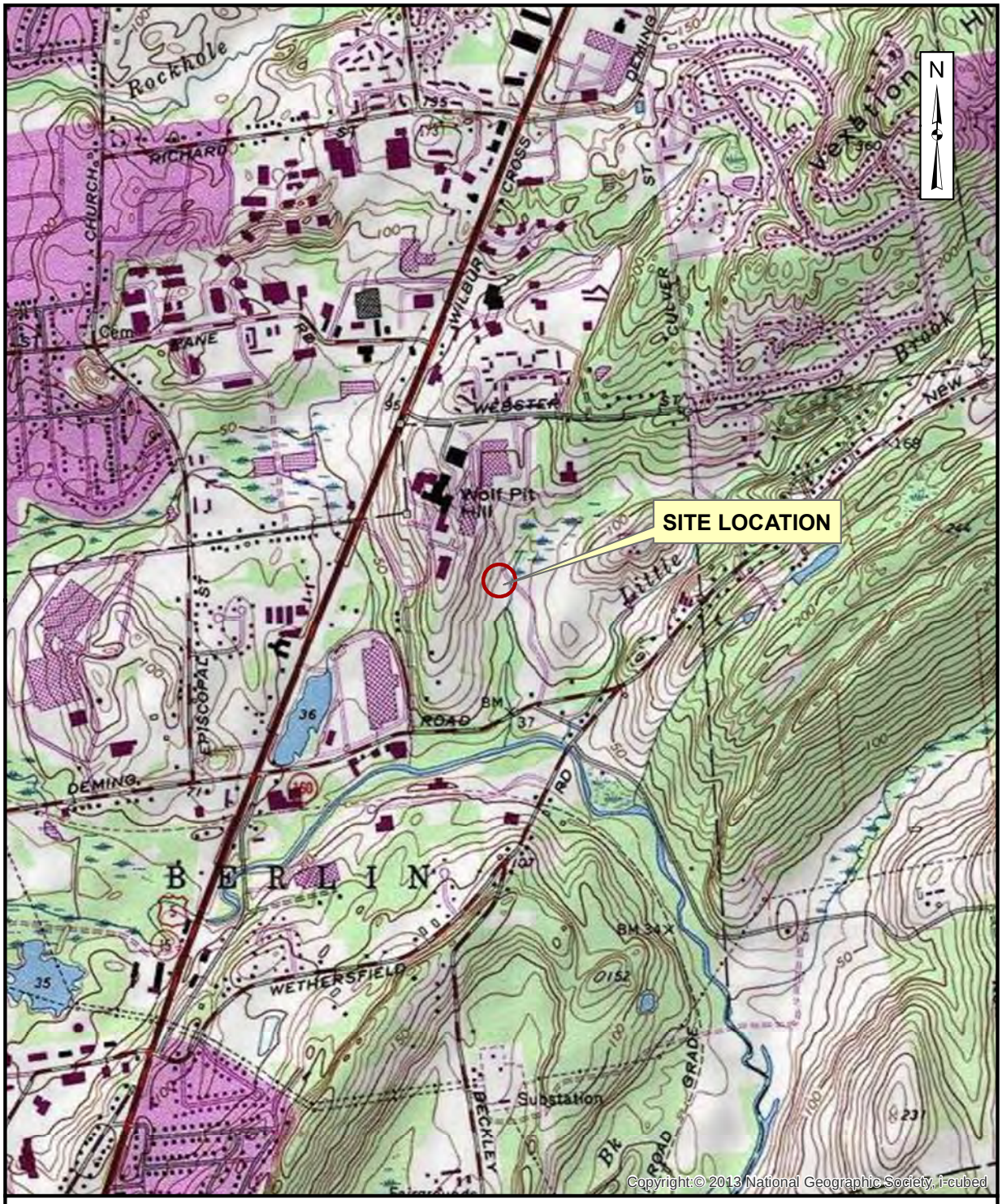


FIGURE 1
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

LOCUS MAP

0 2,000 4,000 Feet

Weston&Sampson

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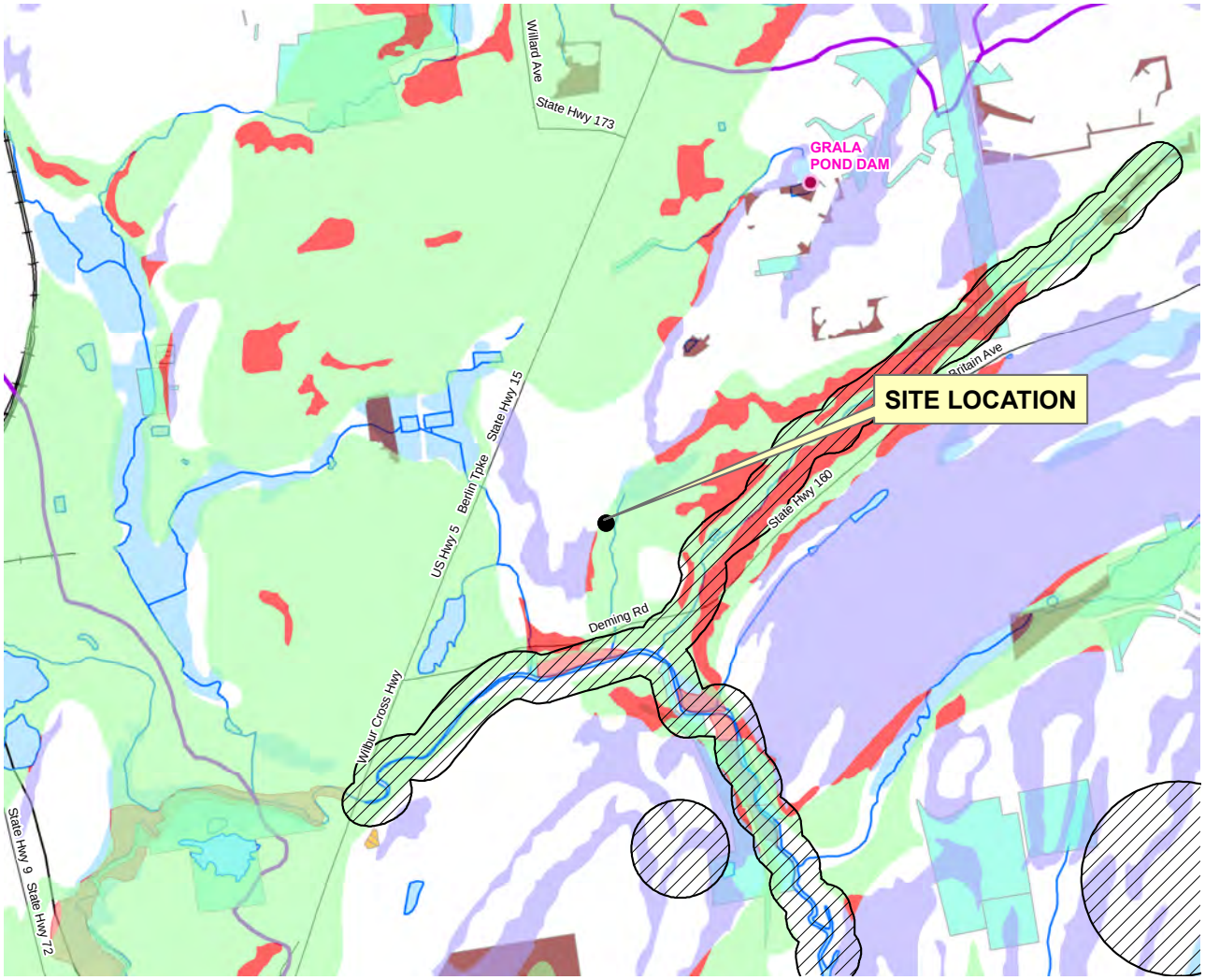

Legend

- Dam
- Fisheries Survey Site
- Most Susceptable to Erosion
- Surficial Materials Susceptable to Erosion
- Soils Susceptable to Erosion

Protected Open Space

- Land Trust
- Municipal
- Private
- Watershed Boundary

Critical Habitat

- Floodplain Forest, FF
- Roadway
- Railroad
- Waterbody Line
- Waterbody
- Natural Diversity Area

FIGURE 2
AREA RECEPTORS MAP
Eversource Energy
Berlin Campus Settling Basin
Berlin, Connecticut

Weston&Sampson



FIGURE 3
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

AERIAL SITE PLAN

300 0 300
Scale In Feet

Weston&Sampson

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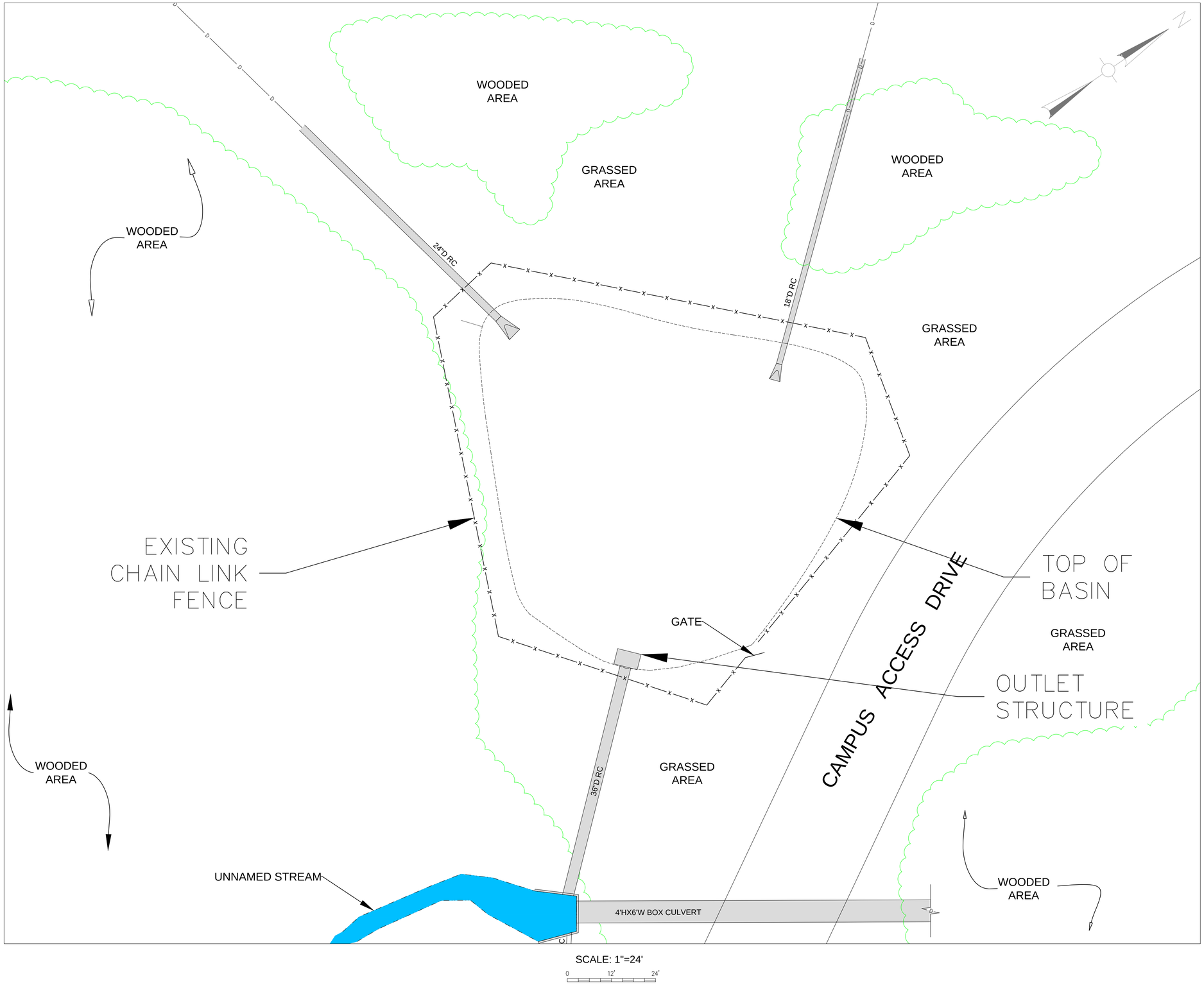


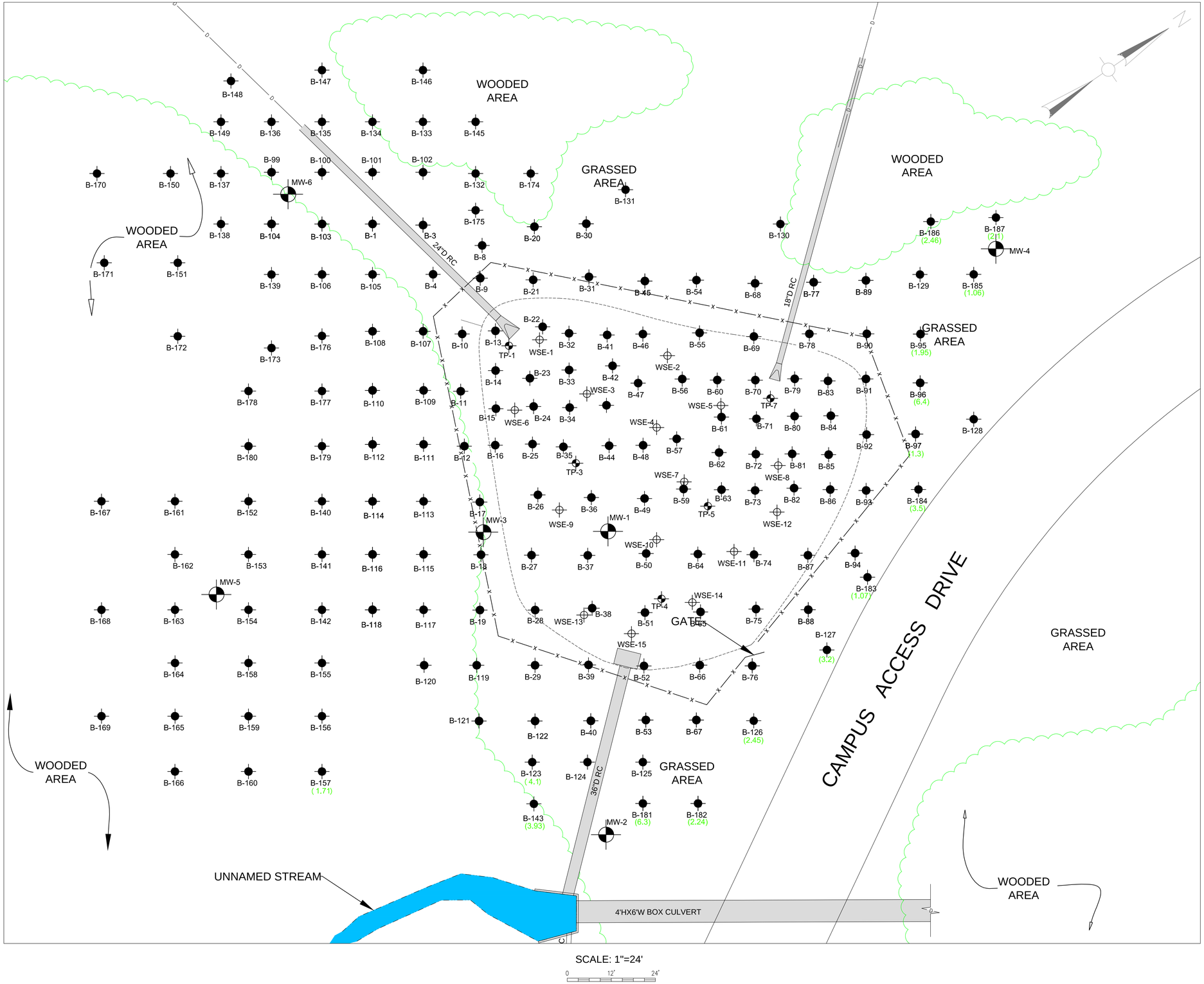


VICINITY MAP

SCALE: 1"= 470'

FIGURE 4
EXISTING CONDITIONS PLAN
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
AUGUST 2015 SCALE: AS NOTED

Weston&Sampson®





VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- 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)

FIGURE 5
SAMPLE LOCATION PLAN
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
AUGUST 2015 SCALE: AS NOTED

Weston&Sampson®

WOODED AREA
GRASSED AREA
WOODED AREA
GRASSED AREA
WOODED AREA
GRASSED AREA
GRASSED AREA
WOODED AREA
WOODED AREA
24"D RC
18"D RC
36"D RC
CAMPUS ACCESS DRIVE
GATE
UNNAMED STREAM
4'HX6'W BOX CULVERT
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
TP-1
TP-3
TP-4
TP-5
TP-7
WSE-1
WSE-2
WSE-3
WSE-4
WSE-5
WSE-6
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B-177
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B-185
B-186
B-187
SCALE: 1"=24'
0
12'
24'



VICINITY MAP

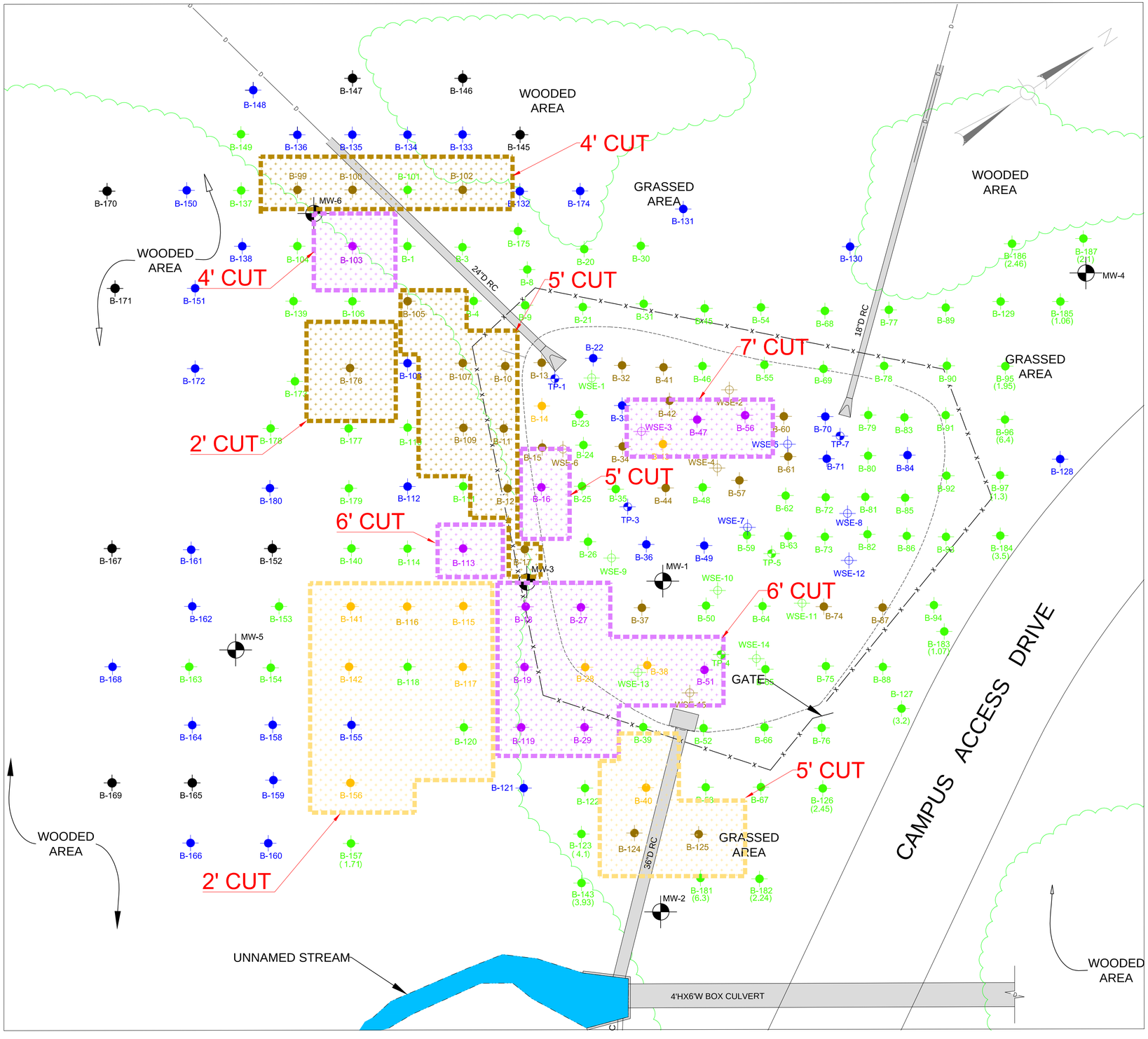
SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- 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)
- BORING COMPLETED BUT NO DATA COLLECTED; EXTENT DEFINED
- < 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

FIGURE 6
EXTENT OF CONTAMINATION: PCBs IN SOIL
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
AUGUST 2015 SCALE: AS NOTED

Weston&Sampson®





VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- 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)
- BORING COMPLETED BUT NO DATA COLLECTED; EXTENT DEFINED
- < 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

EXCAVATION & DISPOSAL BOUNDARIES

- 10 < PCBs MG/KG < 25: CONSOLIDATION AND CAPPING
- 25 < PCBs MG/KG < 50: NON-TSCA DISPOSAL
- > 50.0 MG/KG PCBs: TSCA DISPOSAL

FIGURE 7
SOIL REMEDIATION PLAN
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

AUGUST 2015 SCALE: AS NOTED

Weston&Sampson®

WOODED AREA

GRASSED AREA

WOODED AREA

WOODED AREA

24"D RC

18"D RC

PROPOSED DEED RESTRICTION AND FENCED AREA FOLLOWING REMEDIATION

PROPOSED CAPPING AREA

GRASSED AREA

EXISTING CHAIN LINK FENCE

TOP OF BASIN

GATE

GRASSED AREA

OUTLET STRUCTURE

CAMPUS ACCESS DRIVE

WOODED AREA

GRASSED AREA

36"D RC

WOODED AREA

UNNAMED STREAM

4'HX6'W BOX CULVERT

SCALE: 1"=24'

0 12' 24'



VICINITY MAP

SCALE: 1"= 470'

FIGURE 8
PROPOSED CAP, ELUR
AND FENCE BOUNDARIES
EVERSOURCE ENERGY
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
AUGUST 2015 SCALE: AS NOTED

Weston&Sampson®

Tables

TABLE 1
JULY 2010 SOIL SAMPLING RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	TP-01	Dup-1 / Duplicate of TP-01	TP-03[4]	TP-04[5]	TP-05[5]	TP-07	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (ft bgs)	2.0-2.5		0.5-1.0'	0-0.5'	0-0.5'	1.5-2.0			
DATE SAMPLED	7/19/2010	7/19/2010	7/19/2010	7/19/2010	7/19/2010	7/19/2010			
WORK ORDER NO.	10G0570	10G0570	10G0570	10G0570	10G0570	10G0570	RES DEC	I/C DEC	GA PMC
Parameter (Units)[2]									
Polychlorinated Biphenyls by EPA Method 8082 (mg/kg)									
Aroclor-1260	<0.12	<0.12	<0.13	**5.8**	**1.7**	<0.11	1	10	--
Total PCBs	<0.12	<0.12	<0.13	**5.8**	**1.7**	<0.11	1	10	--
Organochloride Pesticides by EPA Method 8081 (mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	1	10	--
Herbicides by EPA Method 8151 (mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	CS	CS	CS
Volatile Organice Compounds by EPA Method 8260 (mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	CS	CS	CS
Semivolatile Organic Compounds by EPA Method 8270									
Benzo(a)anthracene	<0.21	<0.21	<0.21	**0.21**	<0.41	<0.18	1	7.8	1
Benzo(a)pyrene	<0.21	<0.21	<0.21	**0.32**	<0.41	<0.18	1	1	1
Benzo(b)fluoranthene	<0.21	<0.21	<0.21	**0.56**	**0.71**	<0.18	1	7.8	1
Chrysene	<0.21	<0.21	<0.21	**0.33**	**0.44**	<0.18	84	780	1
Indeno(1,2,3-cd)pyrene	<0.21	<0.21	<0.21	**0.21**	<0.41	<0.18	1	7.8	1
Phenanthrene	<0.21	<0.21	<0.21	**0.25**	<0.41	<0.18	1,000	2,500	4
Extractable Total Petroleum Hydrocarbons by CT Method	**150**	**87**	**130**	**97**	**220**	**88**	500	2,500	500
Total Petroleum Hydrocarbons by EPA Method 8100B (mg/kg)									
TPH as Diesel	**53**	**57**	**230**	**110**	**280**	**120**	500	2,500	500
Total RCRA 8 Metals by EPA Method 6010B (mg/kg)									
Arsenic	<3.2	<3.4	<3.2	**3.3**	**3.3**	<2.6	10	10	--
Barium	**13**	**27**	**23**	**54**	**48**	**19**	4,700	140,000	--
Cadmium	<0.32	<0.34	<0.32	**0.33**	**0.85**	**0.36**	34	1,000	--
Chromium	**6.9**	**5.9**	**13**	**23**	**35**	**12**	100	100	--
Lead	**34**	**34**	**100**	**61**	**73**	**27**	400	1,000	--
Mercury	<0.021	<0.016	**0.025**	**0.065**	**0.18**	**0.028**	20	610	--
TCLP RCRA 8 Metals by EPA Method 6010B/7470A (mg/L)									
Barium	**0.052**	<0.050	**0.057**	**0.055**	<0.050	**0.089**	--	--	1
Lead	**0.089**	**0.071**	**0.062**	**0.017**	**0.011**	<0.010	--	--	0.015
Mercury	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Selenium	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050			
SPLP RCRA 8 Metals by EPA Method 1312/6020A (mg/L)									
Lead	**0.014**	**0.014**	**0.034**	NT	NT	NT	--	--	0.015
Total Cyanide by Method SW9010 (mg/kg)	**0.57**	**0.46**	**1.1**	**1.6**	**1.3**	<0.38	1,400	41,000	--
Reactive Cyanide by SW 846 Section 7.3.3.2 (mg/kg)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NE	NE	NE
Reactive Sulfide by SW 846 Section 7.4.3.2 (mg/kg)	<20	<20	<20	<20	<20	<20	NE	NE	NE
Flashpoint by EPA Method 1010 (degrees Fahrenheit)	> 212 °F	> 212 °F	> 212 °F	> 212 °F	> 212 °F	> 212 °F	NE	NE	NE
pH by EPA Method 9045 (standard units)	7.5	7.5	7.2	7.6	7.6	7.4	NE	NE	NE
Conductivity by Standard Method 2510B (umhos/cm)	6.8	4.4	3.3	7.1	7.3	5.2	NE	NE	NE
Total Solids (%)	80.1	79.9	79.8	82.8	82.8	93.8	NE	NE	NE

NOTES:

1.Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; Revised October 2007).
2.Only compounds that were detected in at least one soil sample are provided in this table. For a complete list of analytes refer to the laboratory report.
3.Settling basin is located within a GA groundwater area.
4.Analytical results shaded in color correspond to constituent concentrations exceeding CT RSRs and off-site reuse criteria. Any material from these locations being transported off-site CANNOT be reused in accordance with the Reuse of Yankee Gas Soils memo dated February 4, 2008. These soils must be properly disposed of at a permitted disposal facility.
5.Concentrations of PCBs from these locations require addditional investigation and sampling prior to restoration activities. Material from these locations will be handled, transported and disposed of separately from the remaining soils.
-- = Not Applicable
** = Criteria is based upon detection limit
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
umhoS/cm = micro ohms per centimeter
TCLP: Toxicity Characteristic Leaching Procedure
SPLP: Synthetic Precipitation Leaching Procedure

BDL =	Below Detection Limit
CS =	Compound Specific
RES DEC =	Residential Direct Exposure Criteria
I/C DEC =	Industrial/Commercial Direct Exposure Criteria
GA PMC =	GA Pollutant Mobility Criteria
NE =	Not Established by CT DEP
TCLP =	Toxicity Characteristic Leaching Procedure
BOLD =	compound detected
	=Exceeds RES DEC
	=Exceeds GA PMC

TABLE 2
DECEMBER 2011/JANUARY 2012 SOIL SAMPLING RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	WSE-1	WSE-1	WSE-2	WSE-2	WSE-3	WSE-3	WSE-4	WSE-4	WSE-5	WSE-5	WSE-6	WSE-6	EPA Standard (40 CFR 761.61(b))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	(0.5-1.0)	(2.0-2.5)	(1.0-1.5)	(3.0-3.5)	(0.0-0.5)	(6.5-7.0)	(0.5-1.0)	(2.5-3.0)	(0.0-0.5)	(3.0-3.5)	(0.5-1.0)	(2.5-3.0)				
DATE SAMPLED	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11				
LABORATORY REPORT NUMBER	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720		RES DEC	I/C DEC	GA PMC
PARAMETER																
Polychlorinated Biphenyls (PCBs) (8082A) (mg/kg)																
PCB-1254	**1.1**	<0.11	**3.4**	**8.4**	<0.12	**160**	**3.2**	**2.0**	**0.28**	<0.12	**4.3**	<0.11	1	1	10	--
PCB-1260	**2.8**	<0.11	**4.6**	**14**	<0.12	**390**	**6.9**	**4.1**	**0.62**	<0.12	**8.5**	**0.36**	1	1	10	--
Total PCBs	**3.9**	BDL	**8.0**	**22.4**	BDL	**550**	**10.1**	**6.1**	**0.90**	BDL	**12.8**	**0.36**	1	1	10	--
Total Solids (%)	84.0	88.1	86.5	83.0	80.8	80.4	79.4	80.7	66.8	80.9	82.1	91.3	--	--	--	--

SAMPLE LOCATION	WSE-7	WSE-7	WSE-8	WSE-8	WSE-9	WSE-9	WSE-10	WSE-10	DUP-1/	WSE-11	WSE-11	WSE-12	EPA Standard (40 CFR 761.61(b))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	(1.0-1.5)	(3.5-4.0)	(2.5-3.0)	(3.5-4.0)	(0.0-0.5)	(1.0-1.5)	(1.0-1.5)	(3.0-3.5)	Duplicate of	(1.5-2.0)	(3.0-3.5)	(2.0-2.5)				
DATE SAMPLED	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11				
LABORATORY REPORT NUMBER	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720		RES DEC	I/C DEC	GAPMC
PARAMETER																
Polychlorinated Biphenyls (PCBs) (8082A) (mg/kg)																
PCB-1254	<0.12	<0.11	<0.12	<0.12	<0.67	<0.12	<0.60	<0.12	<0.11	<0.58	<0.11	<0.12	1	1	10	--
PCB-1260	<0.12	<0.11	<0.12	<0.12	**3.8**	<0.12	**4.1**	**0.53**	**0.51**	**3.6**	**0.12**	<0.12	1	1	10	--
Total PCBs	BDL	BDL	BDL	BDL	**3.8**	BDL	**4.1**	**0.53**	**0.51**	**3.6**	**0.12**	BDL	1	1	10	--
Total Solids (%)	82.9	86.6	84.3	83.5	72.8	80.4	82.1	83.1	87.7	84.2	93.4	84.9	--	--	--	--

SAMPLE LOCATION	WSE-12	WSE-13	WSE-13	WSE-14	WSE-14	WSE-15	WSE-15	WSE-16	WSE-17	WSE-18	CB-1	EPA Standard (40 CFR 761.61(b))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	(3.5-4.0)	(1.5-2.0)	(3.5-4.0)	(1.5-2.0)	(3.0-3.5)	(1.0-1.5)	(3.5-4.0)	(0.0-0.5)	(0.0-0.5)	(0.0-0.5)	--				
DATE SAMPLED	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	12/19/11	1/11/12	1/11/12	1/11/12	1/11/12				
LABORATORY REPORT NUMBER	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	11L0720	12A0314-01	12A0314-01	12A0314-01	12A0314-01		RES DEC	I/C DEC	GAPMC
PARAMETER															
Polychlorinated Biphenyls (PCBs) (8082A) (mg/kg)															
PCB-1254	<0.12	<0.24	<0.59	<1.2	<0.59	<2.4	<0.11	<0.12	<0.12	<0.15	<0.12	1	1	10	--
PCB-1260	<0.12	**2.2**	**4.4**	**1.6**	**3.7**	**18**	**0.14**	<0.12	**0.23**	<0.15	<0.12	1	1	10	--
Total PCBs	BDL	**2.2**	**4.4**	**1.6**	**3.7**	**18**	**0.14**	BDL	**0.23**	BDL	BDL	1	1	10	--
Total Solids (%)	84.4	81.2	85.3	81.3	84.5	82.6	92.8	83.5	78.7	68.5	81.3	--	--	--	--

Z:\CT-RockyHill-Projects\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 2 December 2011 and January 2012 WSE Data.xlsx]Soil

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996).
2. Berlin Settling Basin is located within a GA groundwater area.

-- = Not Applicable
mg/kg = milligrams per kilogram
BOLD = compound detected at that concentration.
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria

BOLD	= compound detected at that concentration.
	= Exceeds RES DEC
	= Exceeds RES DEC and I/C DEC
	= Exceeds RES DEC, I/C DEC, and 50 mg/kg PCB

TABLE 3
SUMMARY OF 2012 COMPOSITE SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	C-14	C-15	C-16	C-17	C-18	C-19	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.5-2.0	8.5-10.0	0.0-2.0	8.0-10.0	0.5-2.0	8.0-10.0	0.0-1.5	8.0-9.5	0.0-2.0	8.0-10.0	0.0-2.0	8.0-10.0	0.0-2.0	8.0-10.0	0.0-2.0	8.0-10.0	0.0-0.5	2.0-2.5	8.0-8.5				
DATE SAMPLED	6/26/12	6/26/12	6/26/12	6/26/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/29/12	6/29/12	6/29/12				
DATE EXTRACTED	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	7/3/12	7/3/12	7/3/12				
DATE ANALYZED	7/3/12	7/2/12	7/3/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/3/12	7/2/12	7/5/12	7/5/12	7/5/12				
LABORATORY REPORT NUMBER	12F00940	12F0940	12F0940	12F0940	12F0988	12F0988	12F0988	12F0988	12F0988	12F0988	12F0988	12F0988	12F0988	12F0988	12F0988	12F0988	12F1059	12F1059	12F1059		RES DEC	I/C DEC	GA PMC
PARAMETER																							
Polychlorinated Biphenyls (PCBs) (8082A/3540) (mg/kg)																							
PCB-1016	<1.2	<0.11	<0.22	<0.11	<0.12	<0.11	<1.2	<0.11	<1.2	<0.11	<0.58	<0.12	<1.2	<0.12	<0.23	<0.11	<0.12	<0.11	<0.11	1	1	10	--
PCB-1221	<1.2	<0.11	<0.22	<0.11	<0.12	<0.11	<1.2	<0.11	<1.2	<0.11	<0.58	<0.12	<1.2	<0.12	<0.23	<0.11	<0.12	<0.11	<0.11	1	1	10	--
PCB-1232	<1.2	<0.11	<0.22	<0.11	<0.12	<0.11	<1.2	<0.11	<1.2	<0.11	<0.58	<0.12	<1.2	<0.12	<0.23	<0.11	<0.12	<0.11	<0.11	1	1	10	--
PCB-1242	<1.2	<0.11	<0.22	<0.11	<0.12	<0.11	<1.2	<0.11	<1.2	<0.11	<0.58	<0.12	<1.2	<0.12	<0.23	<0.11	<0.12	<0.11	<0.11	1	1	10	--
PCB-1248	<1.2	<0.11	<0.22	<0.11	<0.12	<0.11	<1.2	<0.11	<1.2	<0.11	<0.58	<0.12	<1.2	<0.12	<0.23	<0.11	<0.12	<0.11	<0.11	1	1	10	--
PCB-1254	**1.8**	<0.11	**0.65**	<0.11	**0.43**	<0.11	**5.2**	<0.11	**3.7**	**0.12**	**2.3**	<0.12	**2.0**	<0.12	**0.59**	<0.11	<0.12	<0.11	<0.11	1	1	10	--
PCB-1260	**4.5**	<0.11	**1.9**	<0.11	**1.1**	<0.11	**9.7**	<0.11	**6.4**	**0.16**	**4.2**	<0.12	**5.0**	<0.12	**1.6**	<0.11	**0.27**	<0.11	<0.11	1	1	10	--
PCB-1262	<1.2	<0.11	<0.22	<0.11	<0.12	<0.11	<1.2	<0.11	<1.2	<0.11	<0.58	<0.12	<1.2	<0.12	<0.23	<0.11	<0.12	<0.11	<0.11	1	1	10	--
PCB-1268	<1.2	<0.11	<0.22	<0.11	<0.12	<0.11	<1.2	<0.11	<1.2	<0.11	<0.58	<0.12	<1.2	<0.12	<0.23	<0.11	<0.12	<0.11	<0.11	1	1	10	--
Total PCBs	**6.3**	BDL	**2.55**	BDL	**1.53**	BDL	**14.9**	BDL	**10.1**	**0.28**	**6.5**	BDL	**7.0**	BDL	**2.19**	BDL	**0.27**	BDL	BDL	1	1	10	--
Total Solids (%) by method 2540G	82.0	89.9	87.2	89.4	83.4	91.1	84.6	90.8	81.4	87.0	84.2	83.5	83.5	81.8	84.7	86.1	85.9	88.8	88.4	--	--	--	--

SAMPLE LOCATION	DUP-1/ Duplicate	C-20	C-21	C-22	C-23	C-24	C-25	C-26	C-27	C-28	C-29	C-30	C-31	C-32	C-33	C-34	C-35	C-36	C-37	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	of C-19	0.0-1.0	9.5-10.0	0.0-0.5	2.0-2.5	8.0-8.5	0.0-1.0	2.0-3.0	8.0-9.0	0.0-1.5	8.5-9.0	0.0-1.0	2.0-2.5	8.0-8.5	0.0-1.0	2.0-2.5	8.0-8.5	0.0-0.5	2.0-2.5				
DATE SAMPLED	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12				
DATE EXTRACTED	7/3/12	7/3/12	7/3/12	7/3/12	7/3/12	7/3/12	7/3/12	7/3/12	7/3/12	7/3/12	7/3/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12				
DATE ANALYZED	7/5/12	7/6/12	7/5/12	7/5/12	7/6/12	7/5/12	7/6/12	7/5/12	7/5/12	7/6/12	7/5/12	7/10/12	7/9/12	7/9/12	7/10/12	7/9/12	7/9/12	7/9/12	7/9/12				
LABORATORY REPORT NUMBER	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043		RES DEC	I/C DEC	GA PMC
PARAMETER																							
Polychlorinated Biphenyls (PCBs) (8082A/3540) (mg/kg)																							
PCB-1016	<0.11	<0.46	<0.11	<0.12	<0.45	<0.11	<1.2	<0.11	<0.11	<0.23	<0.11	<0.47	<0.12	<0.11	<0.48	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1221	<0.11	<0.46	<0.11	<0.12	<0.45	<0.11	<1.2	<0.11	<0.11	<0.23	<0.11	<0.47	<0.12	<0.11	<0.48	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1232	<0.11	<0.46	<0.11	<0.12	<0.45	<0.11	<1.2	<0.11	<0.11	<0.23	<0.11	<0.47	<0.12	<0.11	<0.48	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1242	<0.11	<0.46	<0.11	<0.12	<0.45	<0.11	<1.2	<0.11	<0.11	<0.23	<0.11	<0.47	<0.12	<0.11	<0.48	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1248	<0.11	<0.46	<0.11	<0.12	<0.45	<0.11	<1.2	<0.11	<0.11	<0.23	<0.11	<0.47	<0.12	<0.11	<0.48	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1254	<0.11	**0.82**	<0.11	**0.24**	**2.4**	<0.11	**3.8**	**0.52**	<0.11	**0.72**	<0.11	**1.2**	<0.12	<0.11	**0.78**	<0.12	<0.11	**0.42**	<0.11	1	1	10	--
PCB-1260	<0.11	**2.6**	<0.11	**0.87**	**4.0**	<0.11	**10.0**	**0.79**	<0.11	**2.0**	<0.11	**2.8**	<0.12	<0.11	**2.7**	<0.12	<0.11	**1.3**	<0.11	1	1	10	--
PCB-1262	<0.11	<0.46	<0.11	<0.12	<0.45	<0.11	<1.2	<0.11	<0.11	<0.23	<0.11	<0.47	<0.12	<0.11	<0.48	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1268	<0.11	<0.46	<0.11	<0.12	<0.45	<0.11	<1.2	<0.11	<0.11	<0.23	<0.11	<0.47	<0.12	<0.11	<0.48	<0.12	<0.11	<0.11	<0.11	1	1	10	--
Total PCBs	BDL	**3.42**	BDL	**1.11**	**6.40**	BDL	**13.80**	**1.31**	BDL	**2.72**	BDL	**4.0**	BDL	BDL	**3.48**	BDL	BDL	**1.72**	BDL	1	1	10	--
Total Solids (%) by method 2540G	89.4	87.4	87.6	81.3	89.1	86.6	82.8	84.6	88.1	83.4	89.5	84.6	84.4	89.1	82.8	85.4	87.6	87.1	88.6	--	--	--	--

SAMPLE LOCATION	C-38	C-39	DUP-4/ Duplicate	C-40	C-41	C-42	C-43	C-44	C-45	C-46	C-47	C-48	C-49	C-50	C-51	C-52	C-53	C-54	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	8.0-8.5	0.0-0.5	of CS-39	2.0-2.5	8.0-8.5	0.0-0.5	2.0-2.5	8.0-8.5	0.0-1.0	2.0-3.0	8.0-9.0	0.0-0.5	2.0-2.5	8.0-8.5	0.0-2.0	2.0-4.0	8.0-10.0	0.0-1.5				
DATE SAMPLED	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12				
DATE EXTRACTED	7/5/12	7/5/12	7/6/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12				
DATE ANALYZED	7/9/12	7/9/12	7/10/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/10/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12				
LABORATORY REPORT NUMBER	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043		RES DEC	I/C DEC	GA PMC
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082A/3540) (mg/kg)																						
PCB-1016	<0.11	<0.12	<0.46	<0.11	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1221	<0.11	<0.12	<0.46	<0.11	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1232	<0.11	<0.12	<0.46	<0.11	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1242	<0.11	<0.12	<0.46	<0.11	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1248	<0.11	<0.12	<0.46	<0.11	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1254	<0.11	**0.4**	**0.83**	<0.11	<0.11	**0.39**	**0.17**	<0.11	**0.51**	**0.29**	<0.11	**0.35**	<0.11	<0.12	**0.24**	<0.11	<0.12	<0.11	1	1	10	--
PCB-1260	<0.11	**1.4**	**2.4**	<0.11	<0.11	**1.2**	**0.50**	<0.11	**1.4**	**0.62**	<0.11	**0.93**	**0.14**	<0.12	**0.89**	<0.11	<0.12	<0.11	1	1	10	--
PCB-1262	<0.11	<0.12	<0.46	<0.11	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1268	<0.11	<0.12	<0.46	<0.11	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	1	1	10	--
Total PCBs	BDL	**1.8**	**3.23**	BDL	BDL	**1.59**	**0.67**	BDL	**1.91**	**0.91**	BDL	**1.28**	**0.14**	BDL	**1.13**	BDL	BDL	BDL	1	1	10	--
Total Solids (%) by method 2540G	86.4	84.6	86.8	86.1	89.3	85.2	95.9	87.0	86.2	90.3	88.0	86.4	1.13	86.9	87.8	86	85.9	87.6	--	--	--	--

SAMPLE LOCATION	C-55	C-56	C-57	C-58	C-59	DUP-5/ Duplicate	C-60	C-61	C-62	C-63	C-64	C-65	C-66	C-67	C-68	C-69	DUP-6/ Duplicate	C-70	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	2.0-3.5	8.0-9.5	0.5-1.5	2.5-3.5	8.5-9.5	of CS-59	0.0-0.5	2.0-2.5	0.0-0.5	2.0-2.5	8.0-8.5	8.0-8.5	2.0-2.5	0.0-0.5	0.0-2.0	2.0-4.0	of CS-69	8.0-10.0				
DATE SAMPLED	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12				
DATE EXTRACTED	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12				
DATE ANALYZED	7/9/12	7/9/12	7/9/12	7/9/12	7/10/12	7/9/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/9/12				
LABORATORY REPORT NUMBER	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043	12G0043		RES DEC	I/C DEC	GA PMC
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082A/3540) (mg/kg)																						
PCB-1016	<0.11	<0.11	<0.11	<0.12	<0.12	<0.12	<5.8	<0.11	<2.4	<2.3	<0.11	<0.11	<1.1	<0.12	<0.11	<2.3	<0.12	<0.12	1	1	10	--
PCB-1221	<0.11	<0.11	<0.11	<0.12	<0.12	<0.12	<5.8	<0.11	<2.4	<2.3	<0.11	<0.11	<1.1	<0.12	<0.11	<2.3	<0.12	<0.12	1	1	10	--
PCB-1232	<0.11	<0.11	<0.11	<0.12	<0.12	<0.12	<5.8	<0.11	<2.4	<2.3	<0.11	<0.11	<1.1	<0.12	<0.11	<2.3	<0.12	<0.12	1	1	10	--
PCB-1242	<0.11	<0.11	<0.11	<0.12	<0.12	<0.12	<5.8	<0.11	<2.4	<2.3	<0.11	<0.11	<1.1	<0.12	<0.11	<2.3	<0.12	<0.12	1	1	10	--
PCB-1248	<0.11	<0.11	<0.11	<0.12	<0.12	<0.12	<5.8	<0.11	<2.4	<2.3	<0.11	<0.11	<1.1	<0.12	<0.11	<2.3	<0.12	<0.12	1	1	10	--
PCB-1254	<0.11	<0.11	**1.3**	**0.18**	<0.12	<0.12	**32**	**0.15**	**15**	**15**	<0.11	<0.11	**5.2**	**0.15**	**0.13**	**14**	**0.16**	<0.12	1	1	10	--
PCB-1260	<0.11	<0.11	**0.47**	<0.12	<0.12	<0.12	**28**	**0.15**	**15**	**19**	<0.11	<0.11	**2.3**	<0.12	<0.11	**5.6**	<0.12	<0.12	1	1	10	--
PCB-1262	<0.11	<0.11	<0.11	<0.12	<0.12	<0.12	<5.8	<0.11	<2.4	<2.3	<0.11	<0.11	<1.1	<0.12	<0.11	<2.3	<0.12	<0.12	1	1	10	--
PCB-1268	<0.11	<0.11	<0.11	<0.12	<0.12	<0.12	<5.8	<0.11	<2.4	<2.3	<0.11	<0.11	<1.1	<0.12	<0.11	<2.3	<0.12	<0.12	1	1	10	--
Total PCBs	BDL	BDL	**1.77**	**0.18**	BDL	BDL	**60**	**0.15**	**30**	**34**	BDL	BDL	**7.5**	**0.15**	**0.13**	**19.6**	**0.16**	BDL	1	1	10	--
Total Solids (%) by method 2540G	88.7	88.3	87.1	85.8	84.6	85.5	83	87.5	83	88.7	87.8	87.7	87.4	85.9	92.5	85.2	83.6	85.5	--	--	--	--

Z:\CT-RockyHill-Projects\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 3 - Summary of 2012 Composite Soil Analytical Results.xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High-Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
BDL = Below Detection Limit
mg/kg = milligrams per kilogram
-- = Not Applicable

BOLD = compound detected at that concentration.
= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 3A
2012 COMPOSITE SOIL SAMPLE KEY
BERLIN CAMPUS SETTLING BASIN
BERLIN , CONNECTICUT

COMPOSITE SAMPLE ID	BORING LOCATION	DEPTH (BSG)	COMMENTS/NOTES
C-1	B1-1	1.0-1.5	
	B3-1	0.5-1.0	
	B4-1	1.5-2.0	
C-2	B1-5	9.0-9.5	
	B3-5	8.5-9.0	
	B4-5	9.5-10.0	
C-3	B8-1	1.0-1.7	
	B9-1	0.5-1.2	
	B-20	1.5-2.2	
	B-21	1.5-2.0	
C-4	B8-5	8.5-9.0	
	B9-5	8.0-8.5	
	B20-5	8.0-8.5	
	B21-5	9.5-10.0	
C-5	B30-1	1.5-2.0	
	B31-1	1.0-1.5	
	B45-1	0.5-1.0	
C-6	B30-5	9.5-10.0	
	B31-5	9.0-9.5	
	B45-5	8.5-9.0	
C-7	B10-1	1.0-1.5	
	B11-1	0.5-1.0	
	B12-1	0.0-0.5	
C-8	B10-5	9.0-9.5	
	B11-5	8.5-9.0	
	B12-5	8.0-8.5	
C-9	B17-1	0.0-0.5	
	B18-1	1.0-1.5	
	B19-1	1.5-2.0	
C-10	B17-5	8.0-8.5	
	B18-5	9.0-9.5	
	B19-5	9.5-10.0	
C-11	B52-1	0.5-1.0	
	B53-1	0.0-0.5	
	B66-1	1.5-2.0	
	B67-1	1.0-1.5	
C-12	B52-5	8.5-9.0	
	B53-5	8.0-8.5	
	B66-5	9.5-10.0	
	B67-5	9.0-9.5	
C-13	B75-1	0.0-0.5	
	B76-1	1.0-1.5	
	B88-1	1.5-2.0	
C-14	B75-5	8.0-8.5	
	B76-5	9.0-9.5	
	B88-5	9.5-10.0	
C-15	B29-1	0.0-0.5	
	B39-1	1.0-1.5	
	B40-1	1.5-2.0	
C-16	B29-5	8.0-8.5	
	B39-5	9.0-9.5	
	B40-5	9.5-10	
C-17	B70-1	0.0-0.5	
	B71-1	0.0-0.5	

NOTES: BSG = Below surface grade
Duplicate samples DUP-2 and DUP-3 were from discrete samples and are included on Table 4.

TABLE 3A
2012 COMPOSITE SOIL SAMPLE KEY
BERLIN CAMPUS SETTLING BASIN
BERLIN , CONNECTICUT

COMPOSITE SAMPLE ID	BORING LOCATION	DEPTH (BSG)	COMMENTS/NOTES
C-18	B70-2	2.0-2.5	
	B71-2	2.0-2.5	
C-19	B70-5	8.0-8.5	DUP-1
	B71-5	8.0-8.5	
C-20	B77-1	0.0-0.5	
	B89-1	0.5-1.0	
C-21	B77-5	9.5-10.0	
	B89-5	9.5-10.0	
C-22	B96-1	0.0-0.5	
	B97-1	0.0-0.5	
C-23	B96-2	2.0-2.5	
	B97-2	2.0-2.5	
C-24	B96-5	8.0-8.5	
	B97-5	8.0-8.5	
C-25	B60-1	0.0-0.5	
	B61-1	0.5-1.0	
C-26	B60-2	2.0-2.5	
	B61-2	2.5-3.0	
C-27	B60-5	8.0-8.5	
	B61-5	8.5-9.0	
C-28	B54-1	0.0-0.5	
	B68-1	1.0-1.5	
C-29	B54-5	8.5-9.0	
	B68-5	8.5-9.0	
C-30	B62-1	0.5-1.0	
	B63-1	0.0-0.5	
C-31	B62-2	2.0-2.5	
	B63-2	2.0-2.5	
C-32	B62-5	8.0-8.5	
	B63-5	8.0-8.5	
C-33	B72-1	0.5-1.0	
	B73-1	0.0-0.5	
C-34	B72-2	2.0-2.5	
	B73-2	2.0-2.5	
C-35	B72-5	8.0-8.5	
	B73-5	8.0-8.5	
C-36	B81-1	0.0-0.5	
	B82-1	0.0-0.5	
C-37	B81-2	2.0-2.5	
	B82-2	2.0-2.5	
C-38	B81-5	8.0-8.5	
	B82-5	8.0-8.5	
C-39	B85-1	0.0-0.5	DUP-4
	B86-1	0.0-0.5	
C-40	B85-2	2.0-2.5	
	B86-2	2.0-2.5	
C-41	B85-5	8.0-8.5	
	B86-5	8.0-8.5	
C-42	B90-1	0.0-0.5	
	B95-1	0.0-0.5	
C-43	B90-2	2.0-2.5	
	B95-2	2.0-2.5	
C-44	B90-5	8.0-8.5	
	B95-5	8.0-8.5	

NOTES: BSG = Below surface grade
Duplicate samples DUP-2 and DUP-3 were from discrete samples and are included on Table 4.

TABLE 3A
2012 COMPOSITE SOIL SAMPLE KEY
BERLIN CAMPUS SETTLING BASIN
BERLIN , CONNECTICUT

COMPOSITE SAMPLE ID	BORING LOCATION	DEPTH (BSG)	COMMENTS/NOTES
C-45	B91-1	0.0-0.5	
	B92-1	0.5-1.0	
C-46	B91-2	2.0-2.5	
	B92-2	2.5-3.0	
C-47	B91-5	8.0-8.5	
	B92-5	8.5-9.0	
C-48	B69-1	0.0-0.5	
	B78-1	0.0-0.5	
C-49	B69-2	2.0-2.5	
	B78-2	2.0-2.5	
C-50	B69-5	8.0-8.5	
	B78-5	8.0-8.5	
C-51	B79-1	0.0-0.5	
	B80-1	1.5-2.0	
C-52	B79-2	2.0-2.5	
	B80-2	3.5-4.0	
C-53	B79-5	8.0-8.5	
	B80-5	9.5-10.0	
C-54	B83-1	0.0-0.5	
	B84-1	1.0-1.5	
C-55	B83-2	2.0-2.5	
	B84-2	3.0-3.5	
C-56	B83-5	8.0-8.5	
	B84-5	9.0-9.5	
C-57	B93-1	0.5-1.0	
	B94-1	1.0-1.5	
C-58	B93-2	2.5-3.0	
	B94-2	3.0-3.5	
C-59	B93-5	8.5-9.0	DUP-5
	B94-5	9.0-9.5	
C-60	B27-1	0.0-0.5	
	B37-1	0.0-0.5	
C-61	B27-2	2.0-2.5	
	B37-2	2.0-2.5	
C-62	B49-1	0.0-0.5	
	B50-1	0.0-0.5	
C-63	B49-2	2.0-2.5	
	B50-2	2.0-2.5	
C-64	B49-5	8.0-8.5	
	B50-5	8.0-8.5	
C-65	B59-5	8.0-8.5	
	B64-5	8.0-8.5	
C-66	B59-2	2.0-2.5	
	B64-2	2.0-2.5	
C-67	B59-1	0.0-0.5	
	B64-1	0.0-0.5	
C-68	B74-1	0.0-0.5	
	B87-1	1.5-2.0	
C-69	B74-2	2.0-2.5	DUP-6
	B87-2	3.5-4.0	
C-70	B74-5	8.0-8.5	
	B87-5	9.5-10.0	

NOTES: BSG = Below surface grade
Duplicate samples DUP-2 and DUP-3 were from discrete samples and are included on Table 4.

TABLE 4
SUMMARY OF 2012 DISCRETE SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B11-2	B11-3	B11-4	B11-5	B12-2	B12-3	B12-4	B12-5	B13-1	B13-2	B13-3	B13-4	B13-5	B14-1	DUP-2/ Duplicate of B14-1	B14-2	B14-3	B14-4	B14-5	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	2.5-3.0	4.5-5.5	6.5-7.0	8.5-9.0	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	1.0-1.5	2.0-2.5	5.0-5.5	7.0-7.5	9.0-9.5	0.5-1.0		2.5-3.0	4.5-5.0	6.5-7.0	9.5-10.0				
DATE SAMPLED	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12				
DATE EXTRACTED	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/9/12	7/10/12	7/10/12	7/10/12	7/9/12	7/9/12	7/9/12	7/10/12	7/10/12	7/10/12	7/9/12				
DATE ANALYZED	7/13/12	7/12/12	7/12/12	7/14/12	7/13/12	7/13/12	7/13/12	7/14/12	7/6/12	7/11/12	7/11/12	7/11/12	7/5/12	7/6/12	7/6/12	7/11/12	7/11/12	7/11/12	7/5/12				
LABORATORY REPORT NUMBER	12G0319	12G0319	12G0319	12G0320	12G0319	12G0319	12G0319	12G0320	12F1059	12G0255	12G0255	12G0255	12F1059	12F1059	12F1059	12G0255	12G0255	12G0255	12F1059				
PARAMETER																					**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																							
PCB-1016	<1.2	<0.10	<0.11	<0.11	<1.1	<1.1	<0.10	<0.11	<2.2	<0.11	<0.11	<0.11	<0.11	<2.4	<4.8	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1221	<1.2	<0.10	<0.11	<0.11	<1.1	<1.1	<0.10	<0.11	<2.2	<0.11	<0.11	<0.11	<0.11	<2.4	<4.8	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1232	<1.2	<0.10	<0.11	<0.11	<1.1	<1.1	<0.10	<0.11	<2.2	<0.11	<0.11	<0.11	<0.11	<2.4	<4.8	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1242	<1.2	<0.10	<0.11	<0.11	<1.1	<1.1	<0.10	<0.11	<2.2	<0.11	<0.11	<0.11	<0.11	<2.4	<4.8	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1248	<1.2	<0.10	<0.11	<0.11	<1.1	<1.1	<0.10	<0.11	<2.2	<0.11	<0.11	<0.11	<0.11	<2.4	<4.8	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1254	**5.1**	**0.11**	<0.11	<0.11	**3.7**	**10**	**0.13**	**0.14**	**7.9**	<0.11	<0.11	<0.11	<0.11	**6.8**	<4.8	**0.16**	<0.11	<0.11	<0.11	1	1	10	--
PCB-1260	**8.0**	**0.13**	<0.11	<0.11	**6.7**	**9.4**	**0.11**	**0.12**	**16**	<0.11	<0.11	<0.11	<0.11	**20**	**9.2**	**0.30**	<0.11	<0.11	<0.11	1	1	10	--
PCB-1262	<1.2	<0.10	<0.11	<0.11	<1.1	<1.1	<0.10	<0.11	<2.2	<0.11	<0.11	<0.11	<0.11	<2.4	<4.8	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1268	<1.2	<0.10	<0.11	<0.11	<1.1	<1.1	<0.10	<0.11	<2.2	<0.11	<0.11	<0.11	<0.11	<2.4	<4.8	<0.11	<0.11	<0.11	<0.11	1	1	10	--
Total PCBs	**13.1**	**0.24**	BDL	BDL	**10.4**	**19.4**	**0.24**	**0.26**	**23.9**	BDL	BDL	BDL	BDL	**26.8**	**9.2**	**0.46**	BDL	BDL	BDL	1	1	10	--
Total Solids (%)	79.3	94.5	89.7	89.2	85.9	85.9	95.3	90.7	86.6	88.2	85.4	88.2	88.4	82.5	82.3	88.2	90.8	87.3	88.8	--	--	--	--

SAMPLE LOCATION	B15-1	B15-2	B15-3	B15-4	B15-5	B16-1	B16-2	B16-3	B16-4	B16-5	B17-2	B17-3	B17-4	B17-5	B18-2	B18-3	B18-4	B18-5	B19-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	1.0-1.5	3.0-3.5	5.0-5.5	7.0-7.5	9.0-9.5	1.5-2.0	3.5-4.0	5.5-6.0	7.8-8.0	9.5-10.0	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	3.0-3.5	5.0-5.5	7.0-7.5	9.0-9.5	3.5-4.0				
DATE SAMPLED	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12				
DATE EXTRACTED	7/5/12	7/10/12	7/10/12	7/10/12	7/5/12	7/5/12	7/10/12	7/10/12	7/10/12	7/5/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12				
DATE ANALYZED	7/6/12	7/11/12	7/11/12	7/11/12	7/6/12	7/6/12	7/12/12	7/12/12	7/13/12	7/6/12	7/13/12	7/13/12	7/13/12	7/14/12	7/14/12	7/14/12	7/12/12	7/14/12	7/14/12				
LABORATORY REPORT NUMBER	12F1059	12G0255	12G0255	12G0255	12F1059	12F1059	12G0255	12G0258	12G0258	12F1059	12G0319	12G0319	12G0319	12G0320	12G0319	12G0319	12G0319	12G0320	12G0319				
PARAMETER																					**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																							
PCB-1016	<1.2	<0.12	<0.12	<0.10	<0.11	<6.0	<4.7	<0.10	<1.1	<0.11	<1.2	<1.1	<0.21	<0.11	<58	<0.10	<0.12	<0.11	<5.9	1	1	10	--
PCB-1221	<1.2	<0.12	<0.12	<0.10	<0.11	<6.0	<4.7	<0.10	<1.1	<0.11	<1.2	<1.1	<0.21	<0.11	<58	<0.10	<0.12	<0.11	<5.9	1	1	10	--
PCB-1232	<1.2	<0.12	<0.12	<0.10	<0.11	<6.0	<4.7	<0.10	<1.1	<0.11	<1.2	<1.1	<0.21	<0.11	<58	<0.10	<0.12	<0.11	<5.9	1	1	10	--
PCB-1242	<1.2	<0.12	<0.12	<0.10	<0.11	<6.0	<4.7	<0.10	<1.1	<0.11	<1.2	<1.1	<0.21	<0.11	<58	<0.10	<0.12	<0.11	<5.9	1	1	10	--
PCB-1248	<1.2	<0.12	<0.12	<0.10	<0.11	<6.0	<4.7	<0.10	<1.1	<0.11	<1.2	<1.1	<0.21	<0.11	<58	<0.10	<0.12	<0.11	<5.9	1	1	10	--
PCB-1254	**4.3**	**0.19**	<0.12	<0.10	**0.20**	**64**	**38**	<0.10	**3.0**	**0.62**	**5.3**	**4.2**	**1.3**	<0.11	**200**	<0.10	<0.12	<0.11	**32**	1	1	10	--
PCB-1260	**7.7**	**0.18**	**0.16**	<0.10	<0.11	**42**	**16**	<0.10	**6.1**	**1.0**	**7.9**	**6.3**	**1.3**	<0.11	**570**	**0.11**	<0.12	<0.11	**59**	1	1	10	--
PCB-1262	<1.2	<0.12	<0.12	<0.10	<0.11	<6.0	<4.7	<0.10	<1.1	<0.11	<1.2	<1.1	<0.21	<0.11	<58	<0.10	<0.12	<0.11	<5.9	1	1	10	--
PCB-1268	<1.2	<0.12	<0.12	<0.10	<0.11	<6.0	<4.7	<0.10	<1.1	<0.11	<1.2	<1.1	<0.21	<0.11	<58	<0.10	<0.12	<0.11	<5.9	1	1	10	--
Total PCBs	**12**	**0.37**	**0.16**	BDL	**0.20**	**63**	**54**	BDL	**9.1**	**1.52**	**13.2**	**10.5**	**2.6**	BDL	**770**	**0.11**	BDL	BDL	**91**	1	1	10	--
Total Solids (%)	83.9	84.4	81.7	93.9	90.0	81.9	85.3	94.1	89.2	89.7	81.5	87.8	92.3	87.3	84.2	97.9	84.1	90.4	82.7	--	--	--	--

SAMPLE LOCATION	B19-3	B19-4	B19-5	B22-1	B22-2	B22-3	B22-4	DUP-13/ Duplicate of B22-4	B22-5	B23-1	B23-2	B23-3	B23-4	B23-5	B24-1	B24-2	B24-3	B24-4	B24-5	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	5.5-6.0	7.5-8.0	9.5-10.0	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5		8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5				
DATE SAMPLED	6/27/12	6/27/12	6/27/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12				
DATE EXTRACTED	7/11/12	7/11/12	7/11/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12				
DATE ANALYZED	7/14/12	7/12/12	7/14/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/11/12	7/9/12	7/9/12	7/9/12	7/11/12	7/9/12	7/9/12	7/9/12				
LABORATORY REPORT NUMBER	12G0319	12G0319	12G0320	12G0085	12G0085	12G0085	12G0085	12G0087	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085				
PARAMETER																					**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																							
PCB-1016	<0.61	<0.10	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.47	<0.12	<0.12	<0.13	<0.49	<0.11	<0.11	<0.11	1	1	10	--
PCB-1221	<0.61	<0.10	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.47	<0.12	<0.12	<0.13	<0.49	<0.11	<0.11	<0.11	1	1	10	--
PCB-1232	<0.61	<0.10	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.47	<0.12	<0.12	<0.13	<0.49	<0.11	<0.11	<0.11	1	1	10	--
PCB-1242	<0.61	<0.10	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.47	<0.12	<0.12	<0.13	<0.49	<0.11	<0.11	<0.11	1	1	10	--
PCB-1248	<0.61	<0.10	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.47	**0.14**	<0.12	**0.27**	<0.49	<0.11	<0.11	<0.11	1	1	10	--
PCB-1254	**4.4**	**0.16**	**0.29**	**0.18**	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	**2.6**	**0.33**	**0.59**	**0.13**	**1.1**	**0.12**	**0.15**	<0.11	1	1	10	--
PCB-1260	**3.5**	<0.10	**0.33**	**0.76**	**0.42**	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	**1.8**	**0.23**	**0.32**	<0.13	**2.4**	**0.12**	**0.19**	<0.11	1	1	10	--
PCB-1262	<0.61	<0.10	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.47	<0.12	<0.12	<0.13	<0.49	<0.11	<0.11	<0.11	1	1	10	--
PCB-1268	<0.61	<0.10	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.47	<0.12	<0.12	<0.13	<0.49	<0.11	<0.11	<0.11	1	1	10	--
Total PCBs	**7.9**	**0.16**	**0.62**	**0.94**	**0.42**	BDL	BDL	BDL	BDL	BDL	BDL	**4.4**	**0.70**	**0.91**	**0.40**	**3.5**	**0.24**	**0.34**	BDL	1	1	10	--
Total Solids (%)	80.8	94.4	82.4	86.8	88.8	89.4	89.6	87.8	90.2	87.2	79.4	83.7	82.7	84.3	77.3	82.3	93.5	88.5	89.3	--	--	--	--

Z:\CT-RockyHill-Projects\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 4 - Summary of 2012 Discreet Soil Analytical Results .xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 4 (Cont.)
SUMMARY OF 2012 DISCRETE SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B25-1	B25-2	B25-3	B25-4	B25-5	B26-1	B26-2	B26-3	B26-4	B26-5	DUP-11/ Duplicate of B26-5	B27-2	B27-3	B27-4	B27-5	B28-1	B28-2	B28-3	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5		2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.5-1.0	2.5-3.0	4.5-5.0				
DATE SAMPLED	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/27/12	6/27/12	6/27/12				
DATE EXTRACTED	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/13/12	7/13/12	7/6/12	7/6/12	7/6 & 7/10	7/10/12	7/11/12				
DATE ANALYZED	7/9/12	7/9/12	7/9/12	7/9/12	7/9/12	7/11/12	7/10/12	7/10/12	7/10/12	7/10/12	7/9/12	7/17/12	7/17/12	7/10/12	7/10/12	7/6 & 7/13	7/13/12	7/16/12				
LABORATORY REPORT NUMBER	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0087	12G0446	12G0446	12G0085	12G0085	12F1059 / 12G0258	12G0258	12G0320		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.14	<0.12	<0.10	<0.11	<0.11	<0.58	<0.11	<0.12	<0.11	<0.12	<0.11	<0.10	<0.10	<0.12	<0.11	<2.3	<2.4	<1.2	1	1	10	--
PCB-1221	<0.14	<0.12	<0.10	<0.11	<0.11	<0.58	<0.11	<0.12	<0.11	<0.12	<0.11	<0.10	<0.10	<0.12	<0.11	<2.3	<2.4	<1.2	1	1	10	--
PCB-1232	<0.14	<0.12	<0.10	<0.11	<0.11	<0.58	<0.11	<0.12	<0.11	<0.12	<0.11	<0.10	<0.10	<0.12	<0.11	<2.3	<2.4	<1.2	1	1	10	--
PCB-1242	<0.14	<0.12	<0.10	<0.11	<0.11	<0.58	<0.11	<0.12	<0.11	<0.12	<0.11	<0.10	<0.10	<0.12	<0.11	<2.3	<2.4	<1.2	1	1	10	--
PCB-1248	<0.14	<0.12	<0.10	<0.11	<0.11	<0.58	<0.11	<0.12	<0.11	<0.12	<0.11	<0.10	<0.10	<0.12	<0.11	<2.3	<2.4	<1.2	1	1	10	--
PCB-1254	**0.43**	**0.15**	**0.11**	<0.11	<0.11	**1.4**	<0.11	<0.12	<0.11	<0.12	<0.11	**0.16**	<0.10	<0.12	<0.11	**11 / 7.6**	**10**	**1.7**	1	1	10	--
PCB-1260	**0.85**	**0.13**	<0.10	<0.11	<0.11	**3.7**	**0.15**	<0.12	<0.11	<0.12	<0.11	**0.25**	<0.10	<0.12	<0.11	**23 / 16**	**18**	**2.7**	1	1	10	--
PCB-1262	<0.14	<0.12	<0.10	<0.11	<0.11	<0.58	<0.11	<0.12	<0.11	<0.12	<0.11	<0.10	<0.10	<0.12	<0.11	<2.3	<2.4	<1.2	1	1	10	--
PCB-1268	<0.14	<0.12	<0.10	<0.11	<0.11	<0.58	<0.11	<0.12	<0.11	<0.12	<0.11	<0.10	<0.10	<0.12	<0.11	<2.3	<2.4	<1.2	1	1	10	--
Total PCBs	**1.28**	**0.28**	**0.11**	BDL	BDL	**5.1**	**0.15**	BDL	BDL	BDL	BDL	**0.41**	BDL	BDL	BDL	**34 / 23.6**	**28**	**4.4**	1	1	10	--
Total Solids (%)	70.4	78.9	93.8	90.0	89.2	86.7	86.7	84.5	86.3	83.6	86.5	96.5	94.5	83.8	88.1	84.5	81.7	82.4	--	--	--	--

SAMPLE LOCATION	B28-4	B28-5	B29-2	B29-3	DUP-14/ Duplicate of B29-3	B29-4	B29-5	B32-1	B32-2	B32-3	DUP-3/ Duplicate of B32-3	B32-4	B32-5	B33-1	B33-2	B33-3	B33-4	B33-5	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	6.5-7.0	8.5-9.0	2.0-2.5	4.0-4.5		6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5		6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5				
DATE SAMPLED	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12				
DATE EXTRACTED	7/10/12	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/5/12	7/5/12	7/5/12	7/3/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12				
DATE ANALYZED	7/13/12	7/12/12	7/14/12	7/14/12	7/13/12	7/12/12	7/14/12	7/6/12	7/6/12	7/6/12	7/5/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12				
LABORATORY REPORT NUMBER	12G0258	12G0258	12G0319	12G0319	12G0319	12G0319	12G0320	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.10	<0.12	<5.7	<2.3	<12	<0.12	<0.11	<1.2	<0.46	<0.12	<0.11	<0.11	<0.11	<0.11	<0.13	<0.11	<0.12	<0.12	1	1	10	--
PCB-1221	<0.10	<0.12	<5.7	<2.3	<12	<0.12	<0.11	<1.2	<0.46	<0.12	<0.11	<0.11	<0.11	<0.11	<0.13	<0.11	<0.12	<0.12	1	1	10	--
PCB-1232	<0.10	<0.12	<5.7	<2.3	<12	<0.12	<0.11	<1.2	<0.46	<0.12	<0.11	<0.11	<0.11	<0.11	<0.13	<0.11	<0.12	<0.12	1	1	10	--
PCB-1242	<0.10	<0.12	<5.7	<2.3	<12	<0.12	<0.11	<1.2	<0.46	<0.12	<0.11	<0.11	<0.11	<0.11	<0.13	<0.11	<0.12	<0.12	1	1	10	--
PCB-1248	<0.10	<0.12	<5.7	<2.3	<12	<0.12	<0.11	<1.2	<0.46	<0.12	<0.11	<0.11	<0.11	<0.11	<0.13	<0.11	<0.12	<0.12	1	1	10	--
PCB-1254	**0.13**	**0.14**	**23**	**10**	**32**	<0.12	<0.11	**3.8**	**1.3**	<0.12	<0.11	<0.11	<0.11	<0.11	**0.22**	<0.11	<0.12	<0.12	1	1	10	--
PCB-1260	**0.12**	<0.12	**39**	**15**	**65**	<0.12	<0.11	**10**	**3.3**	<0.12	<0.11	<0.11	<0.11	<0.11	**0.51**	**0.13**	<0.12	<0.12	1	1	10	--
PCB-1262	<0.10	<0.12	<5.7	<2.3	<12	<0.12	<0.11	<1.2	<0.46	<0.12	<0.11	<0.11	<0.11	<0.11	<0.13	<0.11	<0.12	<0.12	1	1	10	--
PCB-1268	<0.10	<0.12	<5.7	<2.3	<12	<0.12	<0.11	<1.2	<0.46	<0.12	<0.11	<0.11	<0.11	<0.11	<0.13	<0.11	<0.12	<0.12	1	1	10	--
Total PCBs	**0.25**	**0.14**	**62**	**25**	**97**	BDL	BDL	**13.8**	**4.6**	BDL	BDL	BDL	BDL	BDL	**0.73**	**0.13**	BDL	BDL	1	1	10	--
Total Solids (%)	94.7	84.8	85.9	88.5	83.4	83.2	88.3	85.1	84.5	84.2	90.3	87.9	89.9	89.9	75.0	86.5	85.5	86.2	--	--	--	--

SAMPLE LOCATION	B34-1	B34-2	B34-3	B34-4	B34-5	B35-1	B35-2	DUP-12/ Duplicate of B35-2	B35-3	B35-4	B35-5	B36-1	B36-2	B36-3	B36-4	B36-5	B37-1	B37-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5		4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5				
DATE SAMPLED	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12				
DATE EXTRACTED	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/7/12	7/7/12	7/7/12	7/7/12				
DATE ANALYZED	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12				
LABORATORY REPORT NUMBER	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0087	12G0085	12G0085	12G0085	12G0085	12G0085	12G0085	12G0086	12G0086	12G0086	12G0086		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.12	<0.13	<1.2	<0.11	<0.11	<0.11	<0.13	<0.24	<0.12	<0.11	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	<1.3	<0.11	1	1	10	--
PCB-1221	<0.12	<0.13	<1.2	<0.11	<0.11	<0.11	<0.13	<0.24	<0.12	<0.11	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	<1.3	<0.11	1	1	10	--
PCB-1232	<0.12	<0.13	<1.2	<0.11	<0.11	<0.11	<0.13	<0.24	<0.12	<0.11	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	<1.3	<0.11	1	1	10	--
PCB-1242	<0.12	<0.13	<1.2	<0.11	<0.11	<0.11	<0.13	<0.24	<0.12	<0.11	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	<1.3	<0.11	1	1	10	--
PCB-1248	<0.12	**0.35**	<1.2	<0.11	<0.11	<0.11	**0.24**	<0.24	<0.12	<0.11	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	<1.3	<0.11	1	1	10	--
PCB-1254	<0.12	**0.42**	**5.2**	**0.15**	**0.14**	<0.11	**0.47**	**1.2**	**0.79**	**0.19**	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	**2.8**	<0.11	1	1	10	--
PCB-1260	<0.12	**0.55**	**5.6**	**0.16**	**0.24**	<0.11	**0.79**	**2.2**	**0.46**	**0.18**	<0.11	**0.21**	<0.12	<0.11	<0.12	<0.11	**7.3**	**0.13**	1	1	10	--
PCB-1262	<0.12	<0.13	<1.2	<0.11	<0.11	<0.11	<0.13	<0.24	<0.12	<0.11	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	<1.3	<0.11	1	1	10	--
PCB-1268	<0.12	<0.13	<1.2	<0.11	<0.11	<0.11	<0.13	<0.24	<0.12	<0.11	<0.11	<0.14	<0.12	<0.11	<0.12	<0.11	<1.3	<0.11	1	1	10	--
Total PCBs	BDL	**1.32**	**10.8**	**0.31**	**0.38**	BDL	**1.5**	**3.4**	**1.25**	**0.37**	BDL	**0.21**	BDL	BDL	BDL	BDL	**10.1**	**0.13**	1	1	10	--
Total Solids (%)	81.9	73.3	82.9	92.5	90.2	88.5	75.3	80.8	82.0	90.4	89.1	70.2	81.8	88.3	84.3	88.9	76.1	88.3	--	--	--	--

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NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 4 (Cont.)
SUMMARY OF 2012 DISCRETE SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B37-3	B37-4	B37-5	B38-1	B38-2	DUP-9/ Duplicate of B38-2	B38-3	B38-4	B38-5	B39-2	B39-3	B39-4	B39-5	B40-2	B40-3	B40-4	B40-5	B41-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	of B38-2	4.0-4.5	6.0-6.5	8.0-8.5	3.0-3.5	5.0-5.5	7.0-7.5	9.0-9.5	3.5-4.0	5.5-6.0	7.5-8.0	9.5-10.0	0.0-0.5				
DATE SAMPLED	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/28/12				
DATE EXTRACTED	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/6/12	7/7/12	7/7/12	7/7/12	7/11/12	7/10/12	7/11/12	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/5/12				
DATE ANALYZED	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/10/12	7/11/12	7/11/12	7/11/12	7/12/12	7/12/12	7/12/12	7/12/12	7/14/12	7/14/12	7/12/12	7/14/12	7/7/12				
LABORATORY REPORT NUMBER	12G0086	12G0086	12G0086	12G0086	12G0086	12G0087	12G0086	12G0086	12G0086	12G0319	12G0258	12G0319	12G0258	12G0319	12G0319	12G0319	12G0320	12F1059		RES DEC	I/C DEC	GB PMC
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.11	<0.11	<0.11	<1.2	<0.12	<0.47	<4.3	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<2.3	<0.58	<0.11	<0.11	<1.1	1	1	10	--
PCB-1221	<0.11	<0.11	<0.11	<1.2	<0.12	<0.47	<4.3	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<2.3	<0.58	<0.11	<0.11	<1.1	1	1	10	--
PCB-1232	<0.11	<0.11	<0.11	<1.2	<0.12	<0.47	<4.3	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<2.3	<0.58	<0.11	<0.11	<1.1	1	1	10	--
PCB-1242	<0.11	<0.11	<0.11	<1.2	<0.12	<0.47	<4.3	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<2.3	<0.58	<0.11	<0.11	<1.1	1	1	10	--
PCB-1248	<0.11	<0.11	<0.11	<1.2	<0.12	<0.47	<4.3	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<2.3	<0.58	<0.11	<0.11	<1.1	1	1	10	--
PCB-1254	**0.16**	<0.11	<0.11	**3.1**	**0.63**	**2.1**	**9.1**	<0.11	<0.11	<0.12	**0.34**	<0.11	<0.12	**12**	**3.0**	<0.11	<0.11	**4.4**	1	1	10	--
PCB-1260	**0.14**	<0.11	<0.11	**7.1**	**1.1**	**2.8**	**26**	<0.11	<0.11	<0.12	**0.64**	<0.11	<0.12	**17**	**4.2**	**0.12**	<0.11	**11**	1	1	10	--
PCB-1262	<0.11	<0.11	<0.11	<1.2	<0.12	<0.47	<4.3	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<2.3	<0.58	<0.11	<0.11	<1.1	1	1	10	--
PCB-1268	<0.11	<0.11	<0.11	<1.2	<0.12	<0.47	<4.3	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<2.3	<0.58	<0.11	<0.11	<1.1	1	1	10	--
Total PCBs	**0.30**	BDL	BDL	**10.2**	**1.73**	**4.9**	**35.1**	BDL	BDL	BDL	**0.98**	BDL	BDL	**29**	**7.2**	**0.12**	BDL	**15.4**	1	1	10	--
Total Solids (%)	91.5	87.1	87.1	77.7	82.7	85.2	91.1	93.3	89.3	82.0	85.9	87.1	86.0	86.0	84.0	87.3	88.8	88.5	--	--	--	--

SAMPLE LOCATION	B41-2	B41-3	B41-4	B41-5	B42-1	B42-2	B42-3	B42-4	B42-5	B43-1	B43-2	B43-3	B43-4	B43-5	B44-1	B44-2	B44-3	B44-4	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	1.5-2.0	3.5-4.0	5.5-6.0	7.5-8.0	9.5-10.0	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5				
DATE SAMPLED	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/29/12	6/29/12	6/29/12	6/29/12				
DATE EXTRACTED	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/7/12	7/7/12	7/7/12	7/7/12				
DATE ANALYZED	7/6/12	7/6/12	7/6/12	7/6/12	7/7/12	7/7/12	7/7/12	7/6/12	7/6/12	7/6/12	7/7/12	7/6/12	7/6/12	7/6/12	7/11/12	7/11/12	7/11/12	7/11/12				
LABORATORY REPORT NUMBER	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12F1059	12G0086	12G0086	12G0086	12G0086		RES DEC	I/C DEC	GB PMC
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.11	<0.11	<0.11	<0.11	<0.55	<2.7	<1.3	<0.12	<0.11	<0.11	<2.5	<0.12	<0.11	<0.11	<0.14	<1.1	<0.11	<0.11	1	1	10	--
PCB-1221	<0.11	<0.11	<0.11	<0.11	<0.55	<2.7	<1.3	<0.12	<0.11	<0.11	<2.5	<0.12	<0.11	<0.11	<0.14	<1.1	<0.11	<0.11	1	1	10	--
PCB-1232	<0.11	<0.11	<0.11	<0.11	<0.55	<2.7	<1.3	<0.12	<0.11	<0.11	<2.5	<0.12	<0.11	<0.11	<0.14	<1.1	<0.11	<0.11	1	1	10	--
PCB-1242	<0.11	<0.11	<0.11	<0.11	<0.55	<2.7	<1.3	<0.12	<0.11	<0.11	<2.5	<0.12	<0.11	<0.11	<0.14	<1.1	<0.11	<0.11	1	1	10	--
PCB-1248	<0.11	<0.11	<0.11	<0.11	<0.55	<2.7	<1.3	<0.12	<0.11	<0.11	<2.5	<0.12	<0.11	<0.11	<0.14	<1.1	<0.11	<0.11	1	1	10	--
PCB-1254	<0.11	<0.11	<0.11	<0.11	**1.5**	**5.8**	**9.2**	**0.22**	**0.20**	<0.11	**9.5**	**0.17**	<0.11	<0.11	<0.14	**4.0**	**0.21**	<0.11	1	1	10	--
PCB-1260	**0.17**	<0.11	<0.11	<0.11	**3.6**	**16**	**9.0**	**0.21**	**0.12**	<0.11	**18**	**0.20**	<0.11	<0.11	<0.14	**9.5**	**0.35**	<0.11	1	1	10	--
PCB-1262	<0.11	<0.11	<0.11	<0.11	<0.55	<2.7	<1.3	<0.12	<0.11	<0.11	<2.5	<0.12	<0.11	<0.11	<0.14	<1.1	<0.11	<0.11	1	1	10	--
PCB-1268	<0.11	<0.11	<0.11	<0.11	<0.55	<2.7	<1.3	<0.12	<0.11	<0.11	<2.5	<0.12	<0.11	<0.11	<0.14	<1.1	<0.11	<0.11	1	1	10	--
Total PCBs	**0.17**	BDL	BDL	BDL	**5.1**	**21.8**	**19**	**0.43**	**0.32**	BDL	**25.5**	**0.37**	BDL	BDL	BDL	**13.5**	**0.56**	BDL	1	1	10	--
Total Solids (%)	87.1	90.5	89.5	87.9	90.4	72.5	79.1	82.0	87.8	89.6	78.7	81.3	91.7	88.5	69.9	87.3	87.2	89.2	--	--	--	--

SAMPLE LOCATION	B44-5	B46-1	B46-2	B46-3	B46-4	B46-5	B47-1	B47-2	B47-3	DUP-10/ Duplicate of B47-3	B47-4	B47-5	B48-1	B48-2	B48-3	B48-4	B48-5	B49-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	of B47-3	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5				
DATE SAMPLED	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12				
DATE EXTRACTED	7/7/12	7/5/12	7/5/12	7/5/12	7/5/12	7/5/12	7/7/12	7/7/12	7/7/12	7/6/12	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12				
DATE ANALYZED	7/11/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/11/12	7/11/12	7/11/12	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12				
LABORATORY REPORT NUMBER	12G0086	12F1059	12F1059	12F1059	12F1059	12F1059	12G0086	12G0086	12G0086	12G0087	12G0086	12G0086	12G0086	12G0086	12G0086	12G0086	12G0086	12G0086		RES DEC	I/C DEC	GB PMC
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.11	<0.55	<0.11	<0.11	<0.11	<0.11	<1.2	<12	<0.11	<0.57	<0.11	<0.11	<0.15	<0.57	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1221	<0.11	<0.55	<0.11	<0.11	<0.11	<0.11	<1.2	<12	<0.11	<0.57	<0.11	<0.11	<0.15	<0.57	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1232	<0.11	<0.55	<0.11	<0.11	<0.11	<0.11	<1.2	<12	<0.11	<0.57	<0.11	<0.11	<0.15	<0.57	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1242	<0.11	<0.55	<0.11	<0.11	<0.11	<0.11	<1.2	<12	<0.11	<0.57	<0.11	<0.11	<0.15	<0.57	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1248	<0.11	<0.55	<0.11	<0.11	<0.11	<0.11	<1.2	<12	<0.11	<0.57	<0.11	<0.11	<0.15	<0.57	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1254	<0.11	**1.6**	<0.11	<0.11	<0.11	<0.11	**3.7**	**25**	**0.64**	**2.2**	<0.11	<0.11	**0.46**	**1.4**	**0.46**	<0.11	<0.11	<0.12	1	1	10	--
PCB-1260	<0.11	**3.8**	<0.11	<0.11	<0.11	<0.11	**6.6**	**57**	**0.96**	**3.1**	<0.11	<0.11	**1.3**	**3.0**	**0.90**	<0.11	<0.11	**0.21**	1	1	10	--
PCB-1262	<0.11	<0.55	<0.11	<0.11	<0.11	<0.11	<1.2	<12	<0.11	<0.57	<0.11	<0.11	<0.15	<0.57	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1268	<0.11	<0.55	<0.11	<0.11	<0.11	<0.11	<1.2	<12	<0.11	<0.57	<0.11	<0.11	<0.15	<0.57	<0.11	<0.11	<0.11	<0.12	1	1	10	--
Total PCBs	BDL	**5.4**	BDL	BDL	BDL	BDL	**10.3**	**82**	**1.6**	**5.3**	BDL	BDL	**1.76**	**4.4**	**1.36**	BDL	BDL	**0.21**	1	1	10	--
Total Solids (%)	89.4	89.2	88.5	91.7	91.4	89.3	80.5	82.3	90.0	85.6	90.2	90.8	66.3	85.2	88.4	88.2	88.6	83.0	--	--	--	--

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Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
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BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 4 (Cont.)
SUMMARY OF 2012 DISCRETE SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B49-2	B49-3	B49-4	B49-5	B50-1	B50-2	B50-3	DUP-8/ Duplicate of B50-3	B50-4	B50-5	B51-1	B51-2	B51-3	B51-4	B51-5	B52-1	B52-2	B52-3	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5		6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.5-1.0	2.5-3.0	4.5-5.0				
DATE SAMPLED	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/27/12	6/27/12	6/27/12				
DATE EXTRACTED	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/6/12	7/7/12	7/7/12	7/7/12	7/7/12	7/7/12	7/6/12	7/6/12	7/10/12	7/10/12	7/10/12				
DATE ANALYZED	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/12/12	7/9/12	7/12/12	7/12/12	7/12/12	7/12/12	7/12/12	7/9/12	7/9/12	7/12/12	7/13/12	7/13/12				
LABORATORY REPORT NUMBER	12G0086	12G0086	12G0086	12G0086	12G0086	12G0086	12G0086	12G0087	12G0086	12G0086	12G0086	12G0086	12G0086	12G0087	12G0087	12G0258	12G0258	12G0258				
PARAMETER																				**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.11	<0.11	<0.11	<0.11	<1.2	<0.56	<0.11	<0.11	<0.11	<0.11	<4.6	<1.2	<2.3	<0.11	<0.12	<0.12	<1.1	<1.0	1	1	10	--
PCB-1221	<0.11	<0.11	<0.11	<0.11	<1.2	<0.56	<0.11	<0.11	<0.11	<0.11	<4.6	<1.2	<2.3	<0.11	<0.12	<0.12	<1.1	<1.0	1	1	10	--
PCB-1232	<0.11	<0.11	<0.11	<0.11	<1.2	<0.56	<0.11	<0.11	<0.11	<0.11	<4.6	<1.2	<2.3	<0.11	<0.12	<0.12	<1.1	<1.0	1	1	10	--
PCB-1242	<0.11	<0.11	<0.11	<0.11	<1.2	<0.56	<0.11	<0.11	<0.11	<0.11	<4.6	<1.2	<2.3	<0.11	<0.12	<0.12	<1.1	<1.0	1	1	10	--
PCB-1248	<0.11	<0.11	<0.11	<0.11	<1.2	<0.56	<0.11	<0.11	<0.11	<0.11	<4.6	<1.2	<2.3	<0.11	<0.12	<0.12	<1.1	<1.0	1	1	10	--
PCB-1254	<0.11	<0.11	<0.11	<0.11	**2.6**	**1.7**	**0.12**	**0.12**	<0.11	<0.11	**14**	**3.0**	<2.3	<0.11	<0.12	<0.12	**3.3**	**2.7**	1	1	10	--
PCB-1260	<0.11	<0.11	<0.11	<0.11	**7.0**	**2.3**	<0.11	<0.11	<0.11	<0.11	**38**	**4.7**	**19**	<0.11	<0.12	**0.19**	**5.2**	**4.1**	1	1	10	--
PCB-1262	<0.11	<0.11	<0.11	<0.11	<1.2	<0.56	<0.11	<0.11	<0.11	<0.11	<4.6	<1.2	<2.3	<0.11	<0.12	<0.12	<1.1	<1.0	1	1	10	--
PCB-1268	<0.11	<0.11	<0.11	<0.11	<1.2	<0.56	<0.11	<0.11	<0.11	<0.11	<4.6	<1.2	<2.3	<0.11	<0.12	<0.12	<1.1	<1.0	1	1	10	--
Total PCBs	BDL	BDL	BDL	BDL	**9.6**	**4.0**	**0.12**	**0.12**	BDL	BDL	**52**	**7.7**	**19**	BDL	BDL	**0.19**	**8.5**	**6.8**	1	1	10	--
Total Solids (%)	87.7	86.7	90.1	86.8	80.1	87.8	91.0	92.3	90.4	86.7	85.1	84.8	85.2	88.5	84.1	82.6	88.0	96.2	--	--	--	--

SAMPLE LOCATION	B52-4	B52-5	B53-2	B53-3	B53-4	B53-5	B55-1	B55-2	B55-3	B55-4	B55-5	B56-1	B56-2	B56-3	B56-4	B56-5	B57-1	B57-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	6.5-7.0	8.5-9.0	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	1.0-1.5	3.0-3.5				
DATE SAMPLED	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	7/2/12	7/2/12	7/2/12	7/2/12	7/2/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12				
DATE EXTRACTED	7/10/12	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/5/12	7/5/12	7/5/12	7/5/12	7/12/12	7/5/12	7/5/12				
DATE ANALYZED	7/13/12	7/13/12	7/12/12	7/12/12	7/12/12	7/14/12	7/10/12	7/9/12	7/9/12	7/9/12	7/9/12	7/8/12	7/7/12	7/7/12	7/8/12	7/16/12	7/7/12	7/9/12				
LABORATORY REPORT NUMBER	12G0258	12G0258	12G0319	12G0319	12G0319	12G0320	12G0087	12G0087	12G0087	12G0087	12G0087	12F1059	12F1059	12F1059	12F1059	12G0384	12F1059	12F1059				
PARAMETER																				**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<1.1	<1.2	<0.12	<0.13	<0.12	<0.11	<0.58	<0.12	<0.11	<0.11	<0.12	<1.1	<2.3	<12	<2.4	<0.13	<1.2	<0.11	1	1	10	--
PCB-1221	<1.1	<1.2	<0.12	<0.13	<0.12	<0.11	<0.58	<0.12	<0.11	<0.11	<0.12	<1.1	<2.3	<12	<2.4	<0.13	<1.2	<0.11	1	1	10	--
PCB-1232	<1.1	<1.2	<0.12	<0.13	<0.12	<0.11	<0.58	<0.12	<0.11	<0.11	<0.12	<1.1	<2.3	<12	<2.4	<0.13	<1.2	<0.11	1	1	10	--
PCB-1242	<1.1	<1.2	<0.12	<0.13	<0.12	<0.11	<0.58	<0.12	<0.11	<0.11	<0.12	<1.1	<2.3	<12	<2.4	<0.13	<1.2	<0.11	1	1	10	--
PCB-1248	<1.1	<1.2	<0.12	<0.13	<0.12	<0.11	<0.58	<0.12	<0.11	<0.11	<0.12	<1.1	<2.3	<12	<2.4	<0.13	<1.2	<0.11	1	1	10	--
PCB-1254	**3.1**	**3.9**	**0.24**	<0.13	<0.12	<0.11	**1.5**	<0.12	<0.11	<0.11	<0.12	**2.2**	**11**	**21**	**5.5**	<0.13	**4.3**	**0.27**	1	1	10	--
PCB-1260	**5.2**	**5.8**	**0.35**	<0.13	<0.12	<0.11	**3.3**	<0.12	<0.11	<0.11	<0.12	**6.3**	**15**	**58**	**18**	<0.13	**9.7**	**0.14**	1	1	10	--
PCB-1262	<1.1	<1.2	<0.12	<0.13	<0.12	<0.11	<0.58	<0.12	<0.11	<0.11	<0.12	<1.1	<2.3	<12	<2.4	<0.13	<1.2	<0.11	1	1	10	--
PCB-1268	<1.1	<1.2	<0.12	<0.13	<0.12	<0.11	<0.58	<0.12	<0.11	<0.11	<0.12	<1.1	<2.3	<12	<2.4	<0.13	<1.2	<0.11	1	1	10	--
Total PCBs	**8.3**	**9.7**	**0.59**	BDL	BDL	BDL	**4.8**	BDL	BDL	BDL	BDL	**8.5**	**26**	**79**	**20.5**	BDL	**14**	**0.41**	1	1	10	--
Total Solids (%)	86.3	84.1	84.1	79.0	83.6	86.3	86.4	85.0	87.0	90.8	85.1	89.2	83.9	84.3	82.0	77.1	84.9	87.1	--	--	--	--

SAMPLE LOCATION	B57-3	B57-4	B57-5	B59-3	B59-4	B60-3	B60-4	B61-3	DUP-16/ Duplicate of B61-3	B61-4	B62-2	B63-2	B63-4	B63-5	B64-1	B64-2	B64-3	B64-4	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	5.0-5.5	7.0-7.5	9.0-9.5	4.0-4.5	6.0-6.5	4.0-4.5	6.0-6.5	4.5-5.0		6.5-7.0	2.0-2.5	2.0-2.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5				
DATE SAMPLED	6/28/12	6/28/12	6/28/12	6/29/12	6/29/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12				
DATE EXTRACTED	7/5/12	7/5/12	7/12/12	7/13/12	7/13/12	7/12/12	7/12/12	7/12/12	7/12/12	7/12/12	7/13/12	7/13/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12				
DATE ANALYZED	7/9/12	7/9/12	7/16/12	7/17/12	7/17/12	7/16/12	7/16/12	7/16/12	7/16/12	7/16/12	7/17/12	7/18/12	7/9/12	7/9/12	7/10/12	7/10/12	7/9/12	7/9/12				
LABORATORY REPORT NUMBER	12F1059	12F1059	12G0384	12G0446	12G0446	12G0384	12G0384	12G0384	12G0384	12G0384	12G0446	12G0446	12G0087	12G0087	12G0087	12G0087	12G0087	12G0087				
PARAMETER																				**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.60	<0.11	<0.12	1	1	10	--
PCB-1221	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.60	<0.11	<0.12	1	1	10	--
PCB-1232	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.60	<0.11	<0.12	1	1	10	--
PCB-1242	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.60	<0.11	<0.12	1	1	10	--
PCB-1248	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.60	<0.11	<0.12	1	1	10	--
PCB-1254	**0.65**	**0.35**	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	**0.42**	<0.12	<0.11	<0.11	**1.9**	**2.4**	**0.14**	<0.12	1	1	10	--
PCB-1260	**0.48**	**0.30**	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	**0.62**	**0.13**	<0.11	<0.11	**4.2**	**4.3**	**0.14**	<0.12	1	1	10	--
PCB-1262	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.60	<0.11	<0.12	1	1	10	--
PCB-1268	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.60	<0.11	<0.12	1	1	10	--
Total PCBs	**1.13**	**0.65**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.04**	**0.13**	BDL	BDL	**6.1**	**6.7**	**0.28**	BDL	1	1	10	--
Total Solids (%)	83.9	81.1	88.7	88.6	86.8	79.8	89.8	81.6	81.6	87.9	83.6	86.0	88.6	89.2	81.7	81.8	93.1	84.7	--	--	--	--

Z:\CT-RockyHill-Projects\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 4 - Summary of 2012 Discreet Soil Analytical Results .xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 4 (Cont.)
SUMMARY OF 2012 DISCRETE SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B64-5	B65-1	B65-2	B65-3	B65-4	B65-5	B66-2	B66-3	B66-4	B66-5	B67-2	B67-3	B67-4	B67-5	B69-2	DUP-17/Duplicate of B69-2	B69-3	B70-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	3.5-4.0	5.5-6.0	7.5-8.0	9.5-10.0	3.0-3.5	5.0-5.5	7.0-7.5	9.0-9.5	2.0-2.5		4.0-4.5	2.0-2.5				
DATE SAMPLED	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	7/2/12	7/2/12	7/2/12	6/28/12				
DATE EXTRACTED	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/6/12	7/11/12	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12	7/16/12	7/16/12	7/16/12	7/12/12				
DATE ANALYZED	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/10/12	7/12/12	7/12/12	7/12/12	7/16/12	7/12/12	7/12/12	7/12/12	7/14/12	7/19/12	7/19/12	7/19/12	7/16/12				
LABORATORY REPORT NUMBER	12G0087	12G0087	12G0087	12G0087	12G0087	12G0087	12G0319	12G0258	12G0319	12G0320	12G0319	12G0319	12G0319	12G0320	12G0496	12G0496	12G0496	12G0384		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.12	<0.59	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1221	<0.12	<0.59	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1232	<0.12	<0.59	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1242	<0.12	<0.59	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1248	<0.12	<0.59	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1254	<0.12	**1.9**	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	**0.14**	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1260	<0.12	**3.0**	**0.15**	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	**0.26**	<0.11	<0.11	<0.11	**0.20**	<0.11	<0.11	<0.11	1	1	10	--
PCB-1262	<0.12	<0.59	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1268	<0.12	<0.59	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	1	10	--
Total PCBs	BDL	**4.9**	**0.15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**0.40**	BDL	BDL	BDL	**0.20**	BDL	BDL	BDL	1	1	10	--
Total Solids (%)	83.7	83.8	92.7	91.7	85.8	85.0	86.8	87.2	88.0	78.8	90.1	88.7	88.2	86.2	92.1	89.1	88.1	88.2	--	--	--	--

SAMPLE LOCATION	B70-3	B71-2[1]	B71-3[1]	B72-2	B74-1	B74-3	B74-5	DUP-7/ Duplicate of B74-5	B75-2	B75-3	B75-4	B75-5	B76-2	B76-3	B76-4	B76-5	B78-2	B78-3	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	4.0-4.5	2.0-2.5	4.0-4.5	2.0-2.5	0.0-0.5	4.0-4.5	8.0-8.5		2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	3.0-3.5	5.0-5.5	7.0-7.5	9.0-9.5	2.0-2.5	4.5-4.5				
DATE SAMPLED	6/28/12	6/28/12	6/28/12	6/29/12	6/29/12	6/29/12	6/29/12	6/29/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	7/2/12	7/2/12				
DATE EXTRACTED	7/12/12	7/12 & 7/19	7/12 & 7/19	7/13/12	7/6/12	7/13/12	7/6/12	7/6/12	7/11/12	7/11/12	7/10/12	7/10/12	7/11/12	7/11/12	7/11/12	7/11/12	7/16/12	7/16/12				
DATE ANALYZED	7/16/12	7/17 & 7/21	7/17 & 7/21	7/17/12	7/10/12	7/17/12	7/9/12	7/9/12	7/12/12	7/12/12	7/12/12	7/12/12	7/12/12	7/12/12	7/12/12	7/14/12	7/19/12	7/19/12				
LABORATORY REPORT NUMBER	12G0384	12G0384	12G0384	12G0446	12G0087	12G0446	12G0087	12G0087	12G0319	12G0319	12G0258	12G0258	12G0319	12G0319	12G0319	12G0320	12G0496	12G0496		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	<0.22	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1221	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	<0.22	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1232	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	<0.22	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1242	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	<0.22	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1248	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	<0.22	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1254	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	**0.76**	<0.12	<0.11	<0.12	**0.70**	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	**0.23**	<0.12	1	1	10	--
PCB-1260	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	**1.5**	<0.12	<0.11	<0.12	**0.79**	<0.12	<0.11	<0.12	**0.57**	<0.11	<0.11	<0.11	**0.47**	<0.12	1	1	10	--
PCB-1262	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	<0.22	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1268	<0.11	<0.12 / <0.12	<0.11 / <0.12	<0.12	<0.22	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	1	1	10	--
Total PCBs	BDL	BDL	BDL	BDL	**2.26**	BDL	BDL	BDL	**1.49**	BDL	BDL	BDL	**0.57**	BDL	BDL	BDL	**0.70**	BDL	1	1	10	--
Total Solids (%)	89.9	86.1	86.0	82.9	89.1	84.0	85.5	85.2	88.8	84.9	89.2	79.9	92.9	88.9	88.9	86.4	90.4	82.5	--	--	--	--

Z:\CT-RockyHill-Projects\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 4 - Summary of 2012 Discreet Soil Analytical Results .xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 4 (Cont.)
SUMMARY OF 2012 DISCRETE SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B79-2	B80-2[1]	B80-3[1]	B81-2	B82-2	B83-2	B84-2[1]	B84-3[1]	B85-2	B86-2	B87-3[1]	B87-4[1]	B87-5[1]	B88-2	DUP-15/ Duplicate of B88-2	B88-3	B88-4	B88-5	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	2.0-2.5	3.5-4.0	5.5-6.0	2.0-2.5	2.0-2.5	2.0-2.5	3.0-3.5	5.0-5.5	2.0-2.5	2.0-2.5	5.5-6.0	7.5-8.0	9.5-10.0	3.5-4.0		5.5-6.0	7.5-8.0	9.5-10.0				
DATE SAMPLED	7/2/12	6/28/12	6/28/12	6/29/12	6/29/12	7/2/12	6/28/12	6/28/12	6/29/12	6/29/12	6/28/12	6/28/12	6/28/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12				
DATE EXTRACTED	7/16/12	7/12 & 7/20	7/12 & 7/19	7/13/12	7/13/12	7/16/12	7/12 & 7/19	7/12 & 7/19	7/13/12	7/13/12	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19	7/11/12	7/11/12	7/11/12	7/11/12	7/11/12				
DATE ANALYZED	7/19/12	7/17 & 7/23	7/17 & 7/21	7/17/12	7/17/12	7/19/12	7/17 & 7/21	7/17 & 7/21	7/17/12	7/17/12	7/17 & 7/20	7/17 & 7/20	7/17 & 7/21	7/13/12	7/16/12	7/13/12	7/12/12	7/14/12				
LABORATORY REPORT NUMBER	12G0496	12G0384	12G0384	12G0446	12G0446	12G0496	12G0384	12G0384	12G0446	12G0446	12G0384	12G0384	12G0384	12G0319	12G0319	12G0319	12G0319	12G0320		RES DEC	I/C DEC	GB PMC
PARAMETER																						
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																						
PCB-1016	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	<0.23	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1221	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	<0.23	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1232	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	<0.23	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1242	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	<0.23	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1248	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	<0.23	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1254	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	**0.84**	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1260	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	**1.5**	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1262	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	<0.23	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1268	<0.12	<0.11 / <0.11	<0.11 / <0.11	<0.11	<0.12	<0.23	<0.11 / <0.11	<0.11 / <0.11	<0.12	<0.11	<0.11 / <0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12	<0.11	<0.11	<0.11	<0.12	1	1	10	--
Total PCBs	BDL	BDL	BDL	BDL	<0.12	**2.34**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1	10	--
Total Solids (%)	83.8	89.5	89.7	88.6	83.9	87.3	90.2	88.6	82.2	87.4	89.6	80.5	81.6	86.0	86.8	89.3	88.0	80.3	--	--	--	--

SAMPLE LOCATION	B90-2	B90-3	B91-2	B91-3	B92-2[1]	B92-3[1]	B92-4[1]	B93-2[1]	B93-3[1]	B94-2[1]	B94-3[1]	B95-2	B95-3	B96-3[1]	B96-4[1]	B97-3[1]	B97-4[1]	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	2.0-2.5	4.0-4.5	2.0-2.5	4.0-4.5	2.5-3.0	5.0-5.5	7.0-7.5	2.5-3.0	4.5-5.0	3.0-3.5	5.0-5.5	2.0-2.5	4.0-4.5	4.0-4.5	6.0-6.5	4.0-4.5	6.0-6.5				
DATE SAMPLED	7/2/12	7/2/12	7/2/12	7/2/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	7/2/12	7/2/12	6/28/12	6/28/12	6/28/12	6/28/12				
DATE EXTRACTED	7/16/12	7/16/12	7/16/12	7/16/12	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19	7/16/12	7/16/12	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19	7/12 & 7/19				
DATE ANALYZED	7/19/12	7/19/12	7/19/12	7/19/12	7/17 & 7/21	7/17 & 7/21	7/17 & 7/21	7/17 & 7/20	7/17 & 7/20	7/17 & 7/20	7/17 & 7/20	7/19/12	7/19/12	7/17 & 7/20	7/17 & 7/20	7/17 & 7/21	7/17 & 7/21				
LABORATORY REPORT NUMBER	12G0496	12G0496	12G0496	12G0496	12G0384	12G0384	12G0384	12G0384	12G0384	12G0384	12G0384	12G0496	12G0496	12G0384	12G0384	12G0384	12G0384		RES DEC	I/C DEC	GB PMC
PARAMETER																					
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																					
PCB-1016	<0.11	<0.11	<0.11	<0.12	<0.11 / <1.1	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.23	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
PCB-1221	<0.11	<0.11	<0.11	<0.12	<0.11 / <1.1	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.23	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
PCB-1232	<0.11	<0.11	<0.11	<0.12	<0.11 / <1.1	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.23	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
PCB-1242	<0.11	<0.11	<0.11	<0.12	<0.11 / <1.1	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.23	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
PCB-1248	<0.11	<0.11	<0.11	<0.12	<0.11 / <1.1	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.23	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
PCB-1254	**0.19**	<0.11	<0.11	<0.12	**0.51 / <1.1**	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	**0.22 / 0.77**	<0.12 / <0.12	**0.65**	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
PCB-1260	**0.63**	<0.11	<0.11	<0.12	**1.0 / 1.9**	<0.12 / <0.12	<0.12 / <0.12	**0.49 / 0.19**	<0.12 / <0.12	**0.62 / 1.3**	**0.14 / <0.12**	**1.3**	<0.11	<0.12 / <0.12	<0.12 / <0.12	**1.3 / 0.69**	<0.12 / <0.12	1	1	10	--
PCB-1262	<0.11	<0.11	<0.11	<0.12	<0.11 / <1.1	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.23	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
PCB-1268	<0.11	<0.11	<0.11	<0.12	<0.11 / <1.1	<0.12 / <0.12	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.11 / <0.11	<0.12 / <0.12	<0.23	<0.11	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	<0.12 / <0.12	1	1	10	--
Total PCBs	**0.82**	BDL	BDL	BDL	**1.51 / <3.0**	BDL	BDL	**0.49 / 0.19**	BDL	**0.84 / 2.07**	**0.14 / BDL**	**1.95**	BDL	BDL	BDL	**1.3 / 0.69**	BDL	1	1	10	--
Total Solids (%)	95.2	86.9	91.3	84.3	89.5	82.0	86.1	87.2	82.5	90.4	80.7	85.7	84.9	85.2	83.3	85.0	83.3	--	--	--	--

Z:\CT-RockyHill-Projects\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 4 - Summary of 2012 Discreet Soil Analytical Results .xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 5
SUMMARY OF 2014 & 2015 SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B99-1	B99-2	B99-3	B100-1	B100-2	B100-3	B101-1	B101-2	DUP-100/Duplicate of B101-2	B101-3	B101-4	B101-5	B102-1	B102-2	B102-3	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-0.5	2.0-2.5	4.0-4.5	0.0-0.5	2.0-2.5	4.0-4.5	0.0-0.5	2.0-2.5		4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5				
DATE SAMPLED	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14				
DATE EXTRACTED	4/21/14	4/21/14	5/7/14	4/21/14	4/21/14	5/2/14	4/21/14	4/21/14	4/19/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14				
DATE ANALYZED	4/23/14	4/22/14	5/8/14	4/22/14	4/23/14	5/5/14	4/22/14	4/23/14	4/22/14	4/22/14	4/22/14	4/22/14	4/23/14	4/23/14	4/23/14				
LABORATORY REPORT NUMBER	14D0749	14D0749	14E0224	14D0749	14D0749	14D0730	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749		RES DEC	I/C DEC	GB PMC
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<1.3	<0.12	<0.0047	<0.12	<1.2	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	<1.2	1	1	10	--
PCB-1221	<1.3	<0.12	<0.0047	<0.12	<1.2	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	<1.2	1	1	10	--
PCB-1232	<1.3	<0.12	<0.0047	<0.12	<1.2	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	<1.2	1	1	10	--
PCB-1242	<1.3	<0.12	<0.0047	<0.12	<1.2	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	**5.3**	1	1	10	--
PCB-1248	<1.3	<0.12	<0.0047	<0.12	<1.2	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	<1.2	1	1	10	--
PCB-1254	**3.1**	<0.12	<0.0047	<0.12	**3.3**	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	**5.8**	1	1	10	--
PCB-1260	**9.5**	**0.49**	<0.0047	<0.12	**9.9**	<0.11	<0.11	**4.7**	**4.6**	**0.18**	<0.11	<0.11	<0.11	**0.65**	**7.2**	1	1	10	--
PCB-1262	<1.3	<0.12	<0.0047	<0.12	<1.2	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	<1.2	1	1	10	--
PCB-1268	<1.3	<0.12	<0.0047	<0.12	<1.2	<0.11	<0.11	<1.1	<0.57	<0.11	<0.11	<0.11	<0.11	<0.12	<1.2	1	1	10	--
Total PCBs	**12.6**	**0.49**	BDL	BDL	**13.2**	BDL	BDL	**4.7**	**4.6**	**0.18**	BDL	BDL	BDL	**0.65**	**18.3**	1	1	10	--
Total Solids (%)	78.8	82.1	85.0	79.5	80.8	86.4	87.4	87.6	87.1	86.5	88.1	90.7	85.4	82.4	85.2	--	--	--	--

SAMPLE LOCATION	B102-4	B102-5	B103-1	B103-2	B103-3	B103-4	B103-5	B104-1	B104-2	B104-3	B105-1	B105-2	B105-3	B105-4	B105-5	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5				
DATE SAMPLED	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14				
DATE EXTRACTED	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14				
DATE ANALYZED	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14				
LABORATORY REPORT NUMBER	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749		RES DEC	I/C DEC	GB PMC
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.11	<0.11	<1.2	<6.3	<0.11	<0.11	<0.11	<1.2	<0.11	<0.11	<0.11	<2.6	<0.11	<0.11	<0.11	1	1	10	--
PCB-1221	<0.11	<0.11	<1.2	<6.3	<0.11	<0.11	<0.11	<1.2	<0.11	<0.11	<0.11	<2.6	<0.11	<0.11	<0.11	1	1	10	--
PCB-1232	<0.11	<0.11	<1.2	<6.3	<0.11	<0.11	<0.11	<1.2	<0.11	<0.11	<0.11	<2.6	<0.11	<0.11	<0.11	1	1	10	--
PCB-1242	<0.11	<0.11	<1.2	<6.3	<0.11	<0.11	<0.11	<1.2	<0.11	<0.11	<0.11	<2.6	<0.11	<0.11	<0.11	1	1	10	--
PCB-1248	<0.11	<0.11	<1.2	<6.3	<0.11	<0.11	<0.11	<1.2	<0.11	<0.11	<0.11	<2.6	<0.11	<0.11	<0.11	1	1	10	--
PCB-1254	<0.11	<0.11	**1.4**	**9.1**	<0.11	<0.11	<0.11	**1.6**	<0.11	<0.11	**4.5**	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1260	<0.11	<0.11	**5.2**	**41**	<0.11	<0.11	<0.11	**5.8**	<0.11	<0.11	**13**	<0.11	**0.17**	<0.11	<0.11	1	1	10	--
PCB-1262	<0.11	<0.11	<1.2	<6.3	<0.11	<0.11	<0.11	<1.2	<0.11	<0.11	<2.6	<0.11	<0.11	<0.11	<0.11	1	1	10	--
PCB-1268	<0.11	<0.11	<1.2	<6.3	<0.11	<0.11	<0.11	<1.2	<0.11	<0.11	<2.6	<0.11	<0.11	<0.11	<0.11	1	1	10	--
Total PCBs	BDL	BDL	**6.6**	**50.1**	BDL	BDL	BDL	**7.4**	BDL	BDL	**17.5**	BDL	**0.17**	BDL	BDL	1	1	10	--
Total Solids (%)	89.7	89.1	82.3	78.4	85.2	90.9	89.3	82.5	86.5	88.3	77.9	85.8	87.3	88.1	89.3	--	--	--	--

SAMPLE LOCATION	B106-1	B106-2	B106-4	B107-1	B107-2	B107-3	B107-4	B107-5	B108-1	B108-2	B109-1	B109-2	DUP-106/Duplicate of B109-2	B109-3	B109-4	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-0.5	2.0-2.5	6.0-6.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	0.0-0.5	2.0-2.5		4.0-4.5	6.0-6.5				
DATE SAMPLED	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/18/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14				
DATE EXTRACTED	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14				
DATE ANALYZED	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	4/23/14	5/2/14	5/2/14	5/2/14	5/2/14	5/2/14				
LABORATORY REPORT NUMBER	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D0749	14D1017	14D1017	14D1017	14D1017	14D1017		RES DEC	I/C DEC	GB PMC
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<1.3	<0.12	<0.11	<1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<1.2	<0.22	<0.11	<0.12	<0.11	1	1	10	--
PCB-1221	<1.3	<0.12	<0.11	<1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<1.2	<0.22	<0.11	<0.12	<0.11	1	1	10	--
PCB-1232	<1.3	<0.12	<0.11	<1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<1.2	<0.22	<0.11	<0.12	<0.11	1	1	10	--
PCB-1242	<1.3	<0.12	<0.11	<1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<1.2	<0.22	<0.11	<0.12	<0.11	1	1	10	--
PCB-1248	<1.3	<0.12	<0.11	<1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<1.2	<0.22	<0.11	<0.12	<0.11	1	1	10	--
PCB-1254	<1.3	<0.12	<0.11	**2.7**	<0.11	<0.11	<0.11	<0.11	**0.20**	<0.11	**5.3**	**0.81**	**0.46**	<0.12	<0.11	1	1	10	--
PCB-1260	**6.0**	<0.12	<0.11	**8.9**	<0.11	<0.11	<0.11	<0.11	**0.55**	**0.23**	**11**	**1.7**	**1.1**	<0.12	<0.11	1	1	10	--
PCB-1262	<1.3	<0.12	<0.11	<1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<1.2	<0.22	<0.11	<0.12	<0.11	1	1	10	--
PCB-1268	<1.3	<0.12	<0.11	<1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<1.2	<0.22	<0.11	<0.12	<0.11	1	1	10	--
Total PCBs	**6.0**	BDL	BDL	**11.6**	BDL	BDL	BDL	BDL	**0.75**	**0.23**	**16.3**	**2.51**	**1.56**	BDL	BDL	1	1	10	--
Total Solids (%)	76.5	83.5	89.4	79.8	86.8	87.1	87.7	89.0	85.5	88.3	82.7	88.7	88.9	81.9	89.0	--	--	--	--

R:\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 5 - Summary of 2014 & 2015 Soil Analytical Results.xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 5 (Cont.)
SUMMARY OF 2014 & 2015 SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B109-5	B110-1	DUP-102/Duplicate of B110-1	B110-2	B110-5	B111-1	B111-2	B111-3	B111-4	B111-5	B112-1	B112-2	B112-3	B113-1	B113-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	8.0-8.5	0.0-0.5		2.0-2.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	0.0-0.5	2.0-2.5				
DATE SAMPLED	4/25/14	4/18/14	4/18/14	4/18/14	4/18/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14				
DATE EXTRACTED	4/25/14	4/21/14	4/19/14	4/21/14	4/21/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14				
DATE ANALYZED	5/1/14	4/23/14	4/22/14	4/23/14	4/23/14	5/2/14	5/2/14	5/2/14	5/2/14	5/2/14	5/1/14	5/1/14	5/2/14	5/2/14	5/2/14				
LABORATORY REPORT NUMBER	14D1017	14D0749	14D0749	14D0749	14D0749	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.22	<0.11	<0.10	<0.10	<0.11	<0.11	<0.11	<4.7	<0.44	1	1	10	--
PCB-1221	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.22	<0.11	<0.10	<0.10	<0.11	<0.11	<0.11	<4.7	<0.44	1	1	10	--
PCB-1232	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.22	<0.11	<0.10	<0.10	<0.11	<0.11	<0.11	<4.7	<0.44	1	1	10	--
PCB-1242	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.22	<0.11	<0.10	<0.10	<0.11	<0.11	<0.11	<4.7	<0.44	1	1	10	--
PCB-1248	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.22	<0.11	<0.10	<0.10	<0.11	<0.11	<0.11	<4.7	<0.44	1	1	10	--
PCB-1254	<0.11	**0.26**	**0.32**	<0.11	<0.11	**3.3**	**1.3**	**0.18**	**0.12**	<0.10	**0.14**	<0.11	<0.11	**19**	**1.0**	1	1	10	--
PCB-1260	<0.11	**0.77**	**0.93**	<0.11	<0.11	**6.2**	**1.3**	**0.24**	<0.10	<0.10	**0.31**	<0.11	<0.11	**37**	**2.2**	1	1	10	--
PCB-1262	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.22	<0.11	<0.10	<0.10	<0.11	<0.11	<0.11	<4.7	<0.44	1	1	10	--
PCB-1268	<0.11	<0.12	<0.12	<0.11	<0.11	<0.61	<0.22	<0.11	<0.10	<0.10	<0.11	<0.11	<0.11	<4.7	<0.44	1	1	10	--
Total PCBs	BDL	**1.03**	**1.25**	BDL	BDL	**9.5**	**2.6**	**0.42**	**0.12**	BDL	**0.45**	BDL	BDL	**56**	**3.2**	1	1	10	--
Total Solids (%)	89.0	83.4	83.9	88.3	87.6	79.5	83.4	90.5	96.2	89.8	85.3	88.2	90.4	81.3	88.3	--	--	--	--

SAMPLE LOCATION	B113-3	B113-4	B113-5	B114-1	B114-2	B114-4	B115-1	B115-2	B115-3	B115-4	B115-5	B116-1	B116-2	B116-3	B117-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	6.0-6.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	0.0-0.5				
DATE SAMPLED	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14				
DATE EXTRACTED	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14				
DATE ANALYZED	5/1/14	5/1/14	5/1/14	5/2/14	5/1/14	5/1/14	5/2/14	5/1/14	5/1/14	5/1/14	5/1/14	5/2/14	5/1/14	5/1/14	5/2/14				
LABORATORY REPORT NUMBER	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.10	<0.11	<0.11	<0.47	<0.11	<0.12	<2.3	<0.12	<0.11	<0.12	<0.11	<2.3	<0.11	<0.12	<2.3	1	1	10	--
PCB-1221	<0.10	<0.11	<0.11	<0.47	<0.11	<0.12	<2.3	<0.12	<0.11	<0.12	<0.11	<2.3	<0.11	<0.12	<2.3	1	1	10	--
PCB-1232	<0.10	<0.11	<0.11	<0.47	<0.11	<0.12	<2.3	<0.12	<0.11	<0.12	<0.11	<2.3	<0.11	<0.12	<2.3	1	1	10	--
PCB-1242	<0.10	<0.11	<0.11	<0.47	<0.11	<0.12	<2.3	<0.12	<0.11	<0.12	<0.11	<2.3	<0.11	<0.12	<2.3	1	1	10	--
PCB-1248	<0.10	<0.11	<0.11	<0.47	<0.11	<0.12	<2.3	<0.12	<0.11	<0.12	<0.11	<2.3	<0.11	<0.12	<2.3	1	1	10	--
PCB-1254	**0.14**	**0.12**	<0.11	**2.3**	<0.11	<0.12	**7.4**	**0.18**	<0.11	<0.12	<0.11	**18**	<0.11	<0.12	**20**	1	1	10	--
PCB-1260	<0.10	<0.11	<0.11	**2.0**	<0.11	<0.12	**19**	<0.12	<0.11	<0.12	<0.11	**26**	**0.16**	<0.12	**19**	1	1	10	--
PCB-1262	<0.10	<0.11	<0.11	<0.47	<0.11	<0.12	<2.3	<0.12	<0.11	<0.12	<0.11	<2.3	<0.11	<0.12	<2.3	1	1	10	--
PCB-1268	<0.10	<0.11	<0.11	<0.47	<0.11	<0.12	<2.3	<0.12	<0.11	<0.12	<0.11	<2.3	<0.11	<0.12	<2.3	1	1	10	--
Total PCBs	**0.14**	**0.12**	BDL	**4.3**	BDL	BDL	**26.4**	**0.18**	BDL	BDL	BDL	**44**	**0.16**	BDL	**39**	1	1	10	--
Total Solids (%)	96.7	87.5	89.7	84.0	82.9	82.5	86.3	80.5	86.3	81.8	89.4	81.2	86.6	82.5	80.2	--	--	--	--

SAMPLE LOCATION	B117-2	B117-3	B117-4	DUP-104/Duplicate of B117-4	B117-5	B118-1	B118-2	DUP-103/Duplicate of B118-2	B118-5	B119-1	B119-2	B119-3	B119-4	B119-5	B120-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	2.0-2.5	4.0-4.5	6.0-6.5		8.0-8.5	0.0-0.5	2.0-2.5		8.0-8.5	0.0-0.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5				
DATE SAMPLED	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14				
DATE EXTRACTED	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14				
DATE ANALYZED	5/2/14	5/1/14	5/1/14	5/1/14	5/1/14	5/1/14	5/1/14	5/1/14	5/1/14	5/2/14	5/2/14	5/2/14	5/1/14	5/1/14	5/1/14				
LABORATORY REPORT NUMBER	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.46	<0.10	<0.11	<0.11	<0.11	<0.46	<0.11	<0.11	<0.11	<4.5	<1.1	<1.2	<0.10	<0.13	<0.45	1	1	10	--
PCB-1221	<0.46	<0.10	<0.11	<0.11	<0.11	<0.46	<0.11	<0.11	<0.11	<4.5	<1.1	<1.2	<0.10	<0.13	<0.45	1	1	10	--
PCB-1232	<0.46	<0.10	<0.11	<0.11	<0.11	<0.46	<0.11	<0.11	<0.11	<4.5	<1.1	<1.2	<0.10	<0.13	<0.45	1	1	10	--
PCB-1242	<0.46	<0.10	<0.11	<0.11	<0.11	<0.46	<0.11	<0.11	<0.11	<4.5	<1.1	<1.2	<0.10	<0.13	<0.45	1	1	10	--
PCB-1248	<0.46	<0.10	<0.11	<0.11	<0.11	<0.46	<0.11	<0.11	<0.11	<4.5	<1.1	<1.2	<0.10	<0.13	<0.45	1	1	10	--
PCB-1254	**1.8**	**0.21**	<0.11	<0.11	<0.11	**2.0**	**0.12**	<0.11	<0.11	**22**	**3.7**	**3.2**	**0.14**	**0.22**	**0.77**	1	1	10	--
PCB-1260	**1.6**	**0.30**	<0.11	<0.11	<0.11	**2.5**	**0.25**	**0.12**	<0.11	**41**	**8.4**	**5.6**	**0.12**	**0.17**	**2.0**	1	1	10	--
PCB-1262	<0.46	<0.10	<0.11	<0.11	<0.11	<0.46	<0.11	<0.11	<0.11	<4.5	<1.1	<1.2	<0.10	<0.13	<0.45	1	1	10	--
PCB-1268	<0.46	<0.10	<0.11	<0.11	<0.11	<0.46	<0.11	<0.11	<0.11	<4.5	<1.1	<1.2	<0.10	<0.13	<0.45	1	1	10	--
Total PCBs	**3.4**	**0.51**	BDL	BDL	BDL	**4.5**	**0.37**	**0.12**	BDL	**63**	**12.1**	**8.8**	**0.26**	**0.39**	**2.77**	1	1	10	--
Total Solids (%)	86.0	95.5	85.5	85.8	87.0	84.9	87.9	87.5	88.4	85.4	87.8	82.4	94.0	74.8	84.9	--	--	--	--

R:\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 5 - Summary of 2014 & 2015 Soil Analytical Results.xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 5 (Cont.)
SUMMARY OF 2014 & 2015 SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B120-2	B120-3	B121-1	B121-2	B121-3	B121-4	B122-1	B122-2	B122-3	B122-4	B122-5	B123-1	B123-2	B123-3	B123-4	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-0.5	2.0-2.5	8.0-8.5	8.0-8.5	0.0-0.5	2.0-2.5	4.0-4.5	6.0-6.5	8.0-8.5	0.0-0.5	0.0-0.5	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0				
DATE SAMPLED	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	4/25/14	5/14/15	5/14/15	5/14/15	5/14/15				
DATE EXTRACTED	4/28/14	4/28/14	4/28/14	4/28/14	5/7/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	4/28/14	5/15/15	5/15/15	5/23/15	5/23/15				
DATE ANALYZED	5/1/14	4/30/14	4/30/14	4/30/14	5/8/14	4/30/14	4/30/14	5/1/14	4/30/14	4/30/14	4/30/14	5/20/15	5/19/15	5/27/15	5/26/15				
LABORATORY REPORT NUMBER	14D1017	14D1017	14D1017	14D1017	14E0225	14D1017	14D1017	14D1017	14D1017	14D1017	14D1017	15E0635	15E0635	15E0657	15E0657		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.24	<0.098	<0.11	<0.12	<0.0045	<0.11	<0.11	<1.1	<0.11	<0.11	<0.12	<0.54	<0.11	<0.50	<0.10	1	1	10	--
PCB-1221	<0.24	<0.098	<0.11	<0.12	<0.0045	<0.11	<0.11	<1.1	<0.11	<0.11	<0.12	<0.54	<0.11	<0.50	<0.10	1	1	10	--
PCB-1232	<0.24	<0.098	<0.11	<0.12	<0.0045	<0.11	<0.11	<1.1	<0.11	<0.11	<0.12	<0.54	<0.11	<0.50	<0.10	1	1	10	--
PCB-1242	<0.24	<0.098	<0.11	<0.12	<0.0045	<0.11	<0.11	<1.1	<0.11	<0.11	<0.12	<0.54	<0.11	<0.50	<0.10	1	1	10	--
PCB-1248	<0.24	<0.098	<0.11	<0.12	<0.0045	<0.11	<0.11	<1.1	<0.11	<0.11	<0.12	<0.54	<0.11	**2.5**	<0.10	1	1	10	--
PCB-1254	**0.89**	**0.18**	**0.19**	**0.24**	<0.0045	<0.11	<0.11	**1.6**	<0.11	<0.11	<0.12	**1.0**	**0.30**	<0.50	<0.10	1	1	10	--
PCB-1260	**1.4**	**0.21**	**0.48**	**0.67**	**0.044**	<0.11	**0.18**	**5.4**	<0.11	<0.11	<0.12	**3.1**	**0.59**	<0.50	**0.47**	1	1	10	--
PCB-1262	<0.24	<0.098	<0.11	<0.12	<0.0045	<0.11	<0.11	<1.1	<0.11	<0.11	<0.12	<0.54	<0.11	<0.50	<0.10	1	1	10	--
PCB-1268	<0.24	<0.098	<0.11	<0.12	<0.0045	<0.11	<0.11	<1.1	<0.11	<0.11	<0.12	<0.54	<0.11	<0.50	<0.10	1	1	10	--
Total PCBs	**2.29**	**0.39**	**0.67**	**0.91**	**0.044**	BDL	**0.18**	**7.0**	BDL	BDL	BDL	**4.1**	**0.89**	**2.5**	**0.47**	1	1	10	--
Total Solids (%)	83.1	96.4	83.0	83.9	87.7	86.4	85.6	87.3	86.9	86.8	84.0	90.3	90.2	96.9	93.6	--	--	--	--

SAMPLE LOCATION	B124-1	B124-2	DUP-213/Duplicate of B124-2	B124-3	B124-4	B125-1	B125-2	B125-3	B125-4	B126-1	B126-2	B127-1	B127-2	B127-3[2]	B128-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-1.0	1.0-2.0	of B124-2	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0				
DATE SAMPLED	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15				
DATE EXTRACTED	5/15/15	5/15/15	5/15/15	5/23/15	5/23/15	5/15/15	5/15/15	5/23/15	5/23/15	5/15/15	5/15/15	5/15/15	5/15/15	6/11/15	5/15/15				
DATE ANALYZED	5/20/15	5/15/15	5/20/15	5/27/15	5/27/15	5/20/15	5/20/15	5/27/15	5/27/15	5/20/15	5/19/15	5/19/15	5/20/15	6/15/15	5/20/15				
LABORATORY REPORT NUMBER	15E0635	15E0635	15E0635	15E0658	15E0658	15E0635	15E0635	15E0657	15E0657	15E0635	15E0635	15E0635	15E0635	15F0479	15E0635		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<1.1	<1.1	<1.1	<1.1	<1.1	<0.43	<2.3	<0.11	<0.11	<0.42	<0.11	<0.11	<0.45	<0.11	<0.10	1	1	10	--
PCB-1221	<1.1	<1.1	<1.1	<1.1	<1.1	<0.43	<2.3	<0.11	<0.11	<0.42	<0.11	<0.11	<0.45	<0.11	<0.10	1	1	10	--
PCB-1232	<1.1	<1.1	<1.1	<1.1	<1.1	<0.43	<2.3	<0.11	<0.11	<0.42	<0.11	<0.11	<0.45	<0.11	<0.10	1	1	10	--
PCB-1242	<1.1	<1.1	<1.1	<1.1	<1.1	<0.43	<2.3	<0.11	<0.11	<0.42	<0.11	<0.11	<0.45	<0.11	<0.10	1	1	10	--
PCB-1248	<1.1	<1.1	<1.1	<1.1	<1.1	<0.43	<2.3	<0.11	<0.11	<0.42	<0.11	<0.11	<0.45	<0.11	<0.10	1	1	10	--
PCB-1254	**2.2**	**3.9**	**4.6**	**2.8**	**3.2**	**0.56**	**4.6**	**0.62**	<0.11	**0.55**	<0.11	**0.19**	**1.2**	<0.11	<0.10	1	1	10	--
PCB-1260	**6.7**	**7.9**	**9.6**	**5.5**	**6.0**	**2.2**	**10**	**1**	<0.11	**1.9**	<0.11	**0.71**	**2.0**	**0.67**	**0.78**	1	1	10	--
PCB-1262	<1.1	<1.1	<1.1	<1.1	<1.1	<0.43	<2.3	<0.11	<0.11	<0.42	<0.11	<0.11	<0.45	<0.11	<0.10	1	1	10	--
PCB-1268	<1.1	<1.1	<1.1	<1.1	<1.1	<0.43	<2.3	<0.11	<0.11	<0.42	<0.11	<0.11	<0.45	<0.11	<0.10	1	1	10	--
Total PCBs	**8.9**	**11.8**	**14.2**	**8.3**	**9.2**	**2.76**	**14.6**	**1.62**	BDL	**2.45**	BDL	**0.9**	**3.2**	**0.67**	**0.78**	1	1	10	--
Total Solids (%)	91.5	91.0	90.1	89.2	88.6	90.1	86.2	87.3	86.4	93.4	88.8	92.8	87.8	88.6	93.9	--	--	--	--

SAMPLE LOCATION	B128-2	B128-3	B129-1	B129-2	B129-3	B130-1	B130-2	B131-1	B131-2	B132-1	B132-2	B133-1	DUP-202/Duplicate of B133-1	B133-2	B134-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	1.0-2.0	2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0		1.0-2.0	0.0-1.0				
DATE SAMPLED	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15				
DATE EXTRACTED	5/15/15	5/23/15	5/15/15	5/15/15	5/23/15	5/15/15	5/15/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15				
DATE ANALYZED	5/20/15	5/27/15	5/20/15	5/20/15	5/27/15	5/19/15	5/19/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/15/15	5/14/15	5/14/15				
LABORATORY REPORT NUMBER	15E0635	15E0658	15E0635	15E0635	15E0660	15E0635	15E0635	15E0432	15E0432	15E0432	15E0432	15E0432	15E0432	15E0432	15E0432		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1221	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1232	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1242	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1248	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1254	**0.28**	<0.11	<0.22	**0.17**	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1260	**0.59**	<0.11	**2.6**	**0.53**	<0.11	**0.31**	<0.12	<0.11	<0.11	**0.22**	<0.13	<0.11	**0.29**	<0.11	**0.29**	1	1	10	--
PCB-1262	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
PCB-1268	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	1	1	10	--
Total PCBs	**0.87**	<0.11	**2.6**	**0.70**	BDL	**0.31**	BDL	BDL	BDL	**0.22**	BDL	BDL	**0.29**	BDL	**0.29**	1	1	10	--
Total Solids (%)	87.9	91.4	87.8	89.4	85.8	90.9	85.0	89.1	91.0	83.2	72.8	89.1	89.8	88.8	81.5	--	--	--	--

R:\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 5 - Summary of 2014 & 2015 Soil Analytical Results.xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days
2. Sample was analyzed outsode holding time (analysis requested after recommended holdoign time had passed).

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 5 (Cont.)
SUMMARY OF 2014 & 2015 SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B134-2	B135-1	B135-2	B135-3	B135-4	B136-1	B136-2	B137-1	B137-2	DUP-200/Duplicate of B137-2	B138-1	DUP-204/Duplicate of B138-1	B138-2	B139-1	B139-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0		0.0-1.0		1.0-2.0	0.0-1.0	1.0-2.0				
DATE SAMPLED	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15				
DATE EXTRACTED	5/12/15	5/12/15	5/12/15	5/21/15	5/21/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/1315	5/1315	5/1315	5/1315	5/1315				
DATE ANALYZED	5/14/15	5/14/15	5/14/15	5/22/15	6/4/15	5/14/15	5/14/15	5/15/15	5/15/15	5/14/15	5/14/15	5/15/15	5/14/15	5/14/15	5/14/15				
LABORATORY REPORT NUMBER	15E0432	15E0432	15E0432	15E0435	15E0435	15E0432	15E0432	15E0432	15E0432	15E0432	15E0509	15E0509	15E0509	15E0509	15E0509		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
PCB-1221	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
PCB-1232	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
PCB-1242	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
PCB-1248	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
PCB-1254	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
PCB-1260	<0.12	**0.15**	**0.49**	**0.76**	**0.34**	**0.59**	<0.11	**3.8**	<0.12	<0.12	**0.35**	**0.7**	<0.11	**5.2**	**0.15**	1	1	10	--
PCB-1262	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
PCB-1268	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.65	<0.12	<0.12	<0.11	<0.12	<0.11	<0.57	<0.12	1	1	10	--
Total PCBs	BDL	**0.15**	**0.49**	**0.76**	**0.34**	**0.59**	BDL	**3.8**	BDL	BDL	**0.35**	**0.7**	BDL	**5.2**	**0.15**	1	1	10	--
Total Solids (%)	85.7	90.9	89.4	88.1	86.7	89.2	88.4	76.7	79.7	81.1	86.9	85.0	86.5	85.4	83.3	--	--	--	--

SAMPLE LOCATION	B140-1	B140-2	B141-1	DUP-208/Duplicate of B141-1	B141-2	B141-3	B142-1	B142-2	B142-3	B143-1	B143-2	B148-1[2]	B148-2	B148-3	B149-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-1.0	1.0-2.0	0.0-1.0		1.0-2.0	2.0-3.0	0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0				
DATE SAMPLED	5/12/15	5/12/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/14/15	5/14/15	5/11/15	5/11/15	5/11/15	5/11/15				
DATE EXTRACTED	5/1315	5/1315	5/14/15	5/14/15	5/14/15	5/20/15	5/14/15	5/14/15	5/20/15	5/28/15	5/28/15	6/11/15	6/11/15	6/11/15	5/23/15				
DATE ANALYZED	5/15/15	5/15/15	5/18/15	5/18/15	5/18/15	5/21/15	5/18/15	5/18/15	5/21/15	6/2/15	6/11/15	6/15/15	6/15/15	6/15/15	5/30/15				
LABORATORY REPORT NUMBER	15E0509	15E0509	15E0584	15E0584	15E0584	15E0587	15E0584	15E0584	15E0587	15E0657	15E0657	15F0442	15F0442	15F0442	15E0433		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.58	<0.11	<2.4	<1.1	<0.11	<0.12	<4.4	<0.11	<0.11	<0.53	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1221	<0.58	<0.11	<2.4	<1.1	<0.11	<0.12	<4.4	<0.11	<0.11	<0.53	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1232	<0.58	<0.11	<2.4	<1.1	<0.11	<0.12	<4.4	<0.11	<0.11	<0.53	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1242	<0.58	<0.11	<2.4	<1.1	<0.11	<0.12	<4.4	<0.11	<0.11	<0.53	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1248	<0.58	<0.11	<2.4	<1.1	<0.11	<0.12	<4.4	<0.11	<0.11	<0.53	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1254	<0.58	<0.11	**9.6**	**5.4**	**0.34**	<0.12	**10**	**0.14**	<0.11	**0.73**	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1260	**2.5**	**0.23**	**18**	**10**	**0.67**	<0.12	**28**	**0.41**	<0.11	**3.2**	**0.19**	**0.19**	**0.72**	**0.41**	**0.42**	1	1	10	--
PCB-1262	<0.58	<0.11	<2.4	<1.1	<0.11	<0.12	<4.4	<0.11	<0.11	<0.53	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
PCB-1268	<0.58	<0.11	<2.4	<1.1	<0.11	<0.12	<4.4	<0.11	<0.11	<0.53	<0.10	<0.11	<0.11	<0.12	<0.11	1	1	10	--
Total PCBs	**2.5**	**0.23**	**27.6**	**15.4**	**1.01**	BDL	**38**	**0.55**	BDL	**3.93**	**0.19**	**0.19**	**0.72**	**0.41**	**0.42**	1	1	10	--
Total Solids (%)	84.1	88.6	83.0	86.4	88.2	82.2	89.6	89.5	89.3	93.6	95.2	88.0	88.6	84.8	85.3	--	--	--	--

SAMPLE LOCATION	B149-2	B150-1	B150-2	B151-1	B151-2	B153-1	B153-2	B154-1	B154-2	B155-1	B155-2	B156-1	B156-2	B156-3	B156-4	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0				
DATE SAMPLED	5/11/15	5/11/15	5/11/15	5/12/15	5/12/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15				
DATE EXTRACTED	5/23/15	5/23/15	5/23/15	5/23/15	5/23/15	5/26/15	5/26/15	5/26/15	5/26/15	5/14/15	5/14/15	5/14/15	5/14/15	5/21/15	5/21/15				
DATE ANALYZED	5/31/15	5/30/15	5/30/15	5/29/15	5/29/15	5/31/15	5/30/15	5/28/15	5/27/15	5/17/15	5/17/15	5/17/15	5/17/15	5/23/15	5/22/15				
LABORATORY REPORT NUMBER	15E0433	15E0433	15E0433	15E0511	15E0511	15E0587	15E0587	15E0587	15E0587	15E0584	15E0584	15E0584	15E0584	15E0591	15E0591		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.59	<0.12	<0.12	<0.11	<0.11	<1.1	<0.12	<0.56	<0.11	<0.12	<0.11	<4.7	<4.5	<0.58	<0.11	1	1	10	--
PCB-1221	<0.59	<0.12	<0.12	<0.11	<0.11	<1.1	<0.12	<0.56	<0.11	<0.12	<0.11	<4.7	<4.5	<0.58	<0.11	1	1	10	--
PCB-1232	<0.59	<0.12	<0.12	<0.11	<0.11	<1.1	<0.12	<0.56	<0.11	<0.12	<0.11	<4.7	<4.5	<0.58	<0.11	1	1	10	--
PCB-1242	<0.59	<0.12	<0.12	<0.11	<0.11	<1.1	<0.12	<0.56	<0.11	<0.12	<0.11	<4.7	<4.5	<0.58	<0.11	1	1	10	--
PCB-1248	<0.59	<0.12	<0.12	<0.11	<0.11	<1.1	<0.12	<0.56	<0.11	<0.12	<0.11	<4.7	<4.5	<0.58	**1.2**	1	1	10	--
PCB-1254	**2.4**	<0.12	<0.12	<0.11	<0.11	**2.8**	**0.28**	<0.56	<0.11	<0.12	<0.11	**12**	**13**	**1.0**	**0.58**	1	1	10	--
PCB-1260	**3.4**	<0.12	<0.12	**0.22**	<0.11	**5.1**	<0.12	**3.6**	**0.41**	**1.3**	**0.38**	**31**	**29**	**2.7**	**0.57**	1	1	10	--
PCB-1262	<0.59	<0.12	<0.12	<0.11	<0.11	<1.1	<0.12	<0.56	<0.11	<0.12	<0.11	<4.7	<4.5	<0.58	<0.11	1	1	10	--
PCB-1268	<0.59	<0.12	<0.12	<0.11	<0.11	<1.1	<0.12	<0.56	<0.11	<0.12	<0.11	<4.7	<4.5	<0.58	<0.11	1	1	10	--
Total PCBs	**5.8**	BDL	BDL	**0.22**	BDL	**7.9**	**0.28**	**3.6**	**0.41**	**1.3**	**0.38**	**43**	**42**	**3.7**	**2.35**	1	1	10	--
Total Solids (%)	82.0	80.5	81.8	85.5	87.3	87.3	82.5	87.7	85.3	79.9	87.8	83.6	86.4	85.5	86.8	--	--	--	--

R:\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 5 - Summary of 2014 & 2015 Soil Analytical Results.xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days
2. Sample was analyzed outsode holding time (analysis requested after recommended holdoign time had passed).
RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.
Sample B-144 does not exist. That number was omitted in the labeling process.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 5 (Cont.)
SUMMARY OF 2014 & 2015 SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B157-1	B157-2	B157-3	B157-4	B158-1	B158-2	DUP-209/Duplicate of B158-2	B159-1	B159-2	B160-1	B160-2	B160-3	B160-4	B161-1	B161-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0		0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0				
DATE SAMPLED	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/11/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/12/15	5/12/15				
DATE EXTRACTED	5/27/15	5/27/15	5/27/15	5/27/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/27/15	5/27/15	5/27/15	5/27/15	5/26/15	5/26/15				
DATE ANALYZED	5/30/15	5/30/15	5/30/15	5/30/15	5/17/15	5/17/15	5/17/15	5/18/15	5/17/15	5/30/15	5/30/15	5/30/15	5/30/15	5/29/15	5/29/15				
LABORATORY REPORT NUMBER	15E0593	15E0593	15E0593	15E0593	15E0584	15E0584	15E0584	15E0584	15E0584	15E0593	15E0593	15E0593	15E0593	15E0514	15E0514		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.10	<0.10	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
PCB-1221	<0.10	<0.10	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
PCB-1232	<0.10	<0.10	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
PCB-1242	<0.10	<0.10	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
PCB-1248	<0.10	<0.10	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
PCB-1254	**0.51**	**0.23**	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
PCB-1260	**1.2**	**0.18**	<0.12	**0.19**	**0.49**	**0.21**	**0.24**	**0.14**	<0.12	**0.15**	<0.12	**0.15**	<0.12	**0.14**	<0.12	1	1	10	--
PCB-1262	<0.10	<0.10	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
PCB-1268	<0.10	<0.10	<0.12	<0.11	<0.13	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.12	1	1	10	--
Total PCBs	**1.71**	**0.41**	BDL	**0.19**	**0.49**	**0.21**	**0.24**	**0.14**	BDL	**0.15**	BDL	**0.15**	BDL	**0.14**	BDL	1	1	10	--
Total Solids (%)	95.1	97.1	85.6	87.1	77.9	85.8	84.9	83.1	81.9	83.6	83.2	86.2	81.7	88.8	84.4	--	--	--	--

SAMPLE LOCATION	B162-1	B162-2	B163-1	B163-2	B163-3	B163-4	B164-1	B164-2	B164-3	B164-4	B165-5[2]	B166-1	B166-2	B166-3	B166-4	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	4.0-5.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0				
DATE SAMPLED	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15	5/13/15				
DATE EXTRACTED	5/26/15	5/26/15	5/27/15	5/27/15	5/27/15	5/27/15	5/27/15	5/27/15	5/27/15	5/27/15	6/9/15	5/27/15	5/27/15	5/27/15	5/27/15				
DATE ANALYZED	5/30/15	5/30/15	6/1/15	6/2/15	6/2/15	6/2/15	6/2/15	6/2/15	6/2/15	6/2/15	6/10/15	5/30/15	5/30/15	5/30/15	5/30/15				
LABORATORY REPORT NUMBER	15E0587	15E0587	15E0589	15E0589	15E0589	15E0589	15E0589	15E0589	15E0589	15E0589	15F0161	15E0591	15E0591	15E0593	15E0593		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1221	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1232	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1242	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1248	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1254	<0.11	<0.11	**0.17**	<0.13	<0.11	<0.11	**0.2**	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1260	**0.15**	<0.11	**0.85**	<0.13	<0.11	<0.11	**0.63**	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1262	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
PCB-1268	<0.11	<0.11	<0.12	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11	<0.12	<0.12	<0.13	<0.12	<0.11	<0.13	1	1	10	--
Total PCBs	**0.15**	BDL	**1.02**	BDL	BDL	BDL	**0.83**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1	10	--
Total Solids (%)	87.2	85.4	83.4	77.7	86.3	90.0	89.6	82.2	87.3	86.5	83.7	75.3	85.4	87.3	75.9	--	--	--	--

SAMPLE LOCATION	B168-1	B168-2	B168-3	B168-4	B172-1	B172-2	B173-1	B173-2	B174-1	B174-2	B175-1	B175-2	B176-1	B176-2	DUP-205/Duplicate of B176-2	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0					
DATE SAMPLED	5/13/15	5/13/15	5/13/15	5/13/15	5/12/15	5/12/15	5/12/15	5/12/15	5/11/15	5/11/15	5/11/15	5/11/15	5/12/15	5/12/15	5/12/15				
DATE EXTRACTED	5/27/15	5/27/15	5/27/15	5/27/15	5/23/15	5/23/15	5/23/15	5/23/15	5/12/15	5/12/15	5/12/15	5/12/15	5/13/15	5/13/15	5/13/15				
DATE ANALYZED	6/2/15	6/2/15	6/2/15	6/2/15	6/4/15	6/4/15	5/30/15	5/29/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/15/15				
LABORATORY REPORT NUMBER	15E0589	15E0589	15E0589	15E0589	15E0511	15E0511	15E0513	15E0513	15E0432	15E0432	15E0432	15E0432	15E0509	15E0509	15E0509		**RES DEC**	**I/C DEC**	**GB PMC**
PARAMETER																			
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
PCB-1221	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
PCB-1232	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
PCB-1242	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
PCB-1248	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
PCB-1254	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
PCB-1260	<0.12	<0.12	<0.13	<0.12	**0.20**	<0.12	**7.9**	<0.11	**0.23**	<0.11	**1.2**	**0.37**	**12**	<0.11	<0.11	1	1	10	--
PCB-1262	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
PCB-1268	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<1.3	<0.11	<0.11	<0.11	<0.11	<0.11	<1.3	<0.11	<0.11	1	1	10	--
Total PCBs	BDL	BDL	BDL	BDL	**0.20**	BDL	**7.9**	BDL	**0.23**	BDL	**1.2**	**0.37**	**12**	BDL	BDL	1	1	10	--
Total Solids (%)	86.5	82.7	77.3	86.7	74.1	81.7	77.9	85.0	89.1	86.8	86.1	84.9	78.8	88.1	86.6	--	--	--	--

R:\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 5 - Summary of 2014 & 2015 Soil Analytical Results.xlsx]Soil Samples

NOTES:
Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.
1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days
2. Sample was analyzed outsode holding time (analysis requested after recommended holdoign time had passed).

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 5 (Cont.)
SUMMARY OF 2014 & 2015 SOIL ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	B177-1	B177-2	B178-1	B178-2	B179-1	B179-2	B180-1	B180-2	B181-1	B181-2	B182-1	B182-2	B182-3[2]	B182-4[2]	B183-1	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0				
DATE SAMPLED	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/12/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15				
DATE EXTRACTED	5/13/15	5/13/15	5/23/15	5/23/15	5/13/15	5/13/15	5/26/15	5/26/15	5/28/15	5/28/15	5/28/15	5/28/15	6/9/15	6/9/15	5/15/15				
DATE ANALYZED	5/15/15	5/15/15	5/30/15	5/29/15	5/15/15	5/15/15	6/4/15	6/4/15	6/2/15	6/2/15	6/2/15	6/1/15	6/11/15	6/11/15	5/15/15				
LABORATORY REPORT NUMBER	15E0509	15E0509	15E0513	15E0513	15E0509	15E0509	15E0513	15E0513	15E0657	15E0657	15E0657	15E0657	15F0221	15F0221	15E0635				
PARAMETER																	**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																			
PCB-1016	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	<0.55	<0.56	<0.23	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1221	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	<0.55	<0.56	<0.23	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1232	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	<0.55	<0.56	<0.23	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1242	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	<0.55	<0.56	<0.23	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1248	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	<0.55	<0.56	<0.23	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1254	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	**1.5**	**1.8**	**0.44**	**0.33**	**0.23**	<0.11	<0.11	1	1	10	--
PCB-1260	**2.1**	**0.37**	**1.6**	<0.11	**2.2**	**0.39**	**0.65**	<0.11	**3.8**	**4.5**	**1.8**	**0.89**	**0.77**	<0.11	**0.59**	1	1	10	--
PCB-1262	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	<0.55	<0.56	<0.23	<0.12	<0.11	<0.11	<0.11	1	1	10	--
PCB-1268	<0.25	<0.12	<0.24	<0.11	<0.23	<0.12	<0.11	<0.11	<0.55	<0.56	<0.23	<0.12	<0.11	<0.11	<0.11	1	1	10	--
Total PCBs	**2.1**	**0.37**	**1.6**	BDL	**2.2**	**0.39**	**0.65**	BDL	**5.3**	**6.3**	**2.24**	**1.22**	**1.0**	BDL	**0.59**	1	1	10	--
Total Solids (%)	78.2	80.9	80.7	88.9	83.3	84.3	86.2	89.4	90.7	89.2	87.7	86.2	88.9	89.2	92.1	--	--	--	--

SAMPLE LOCATION	B183-2	B183-3	B183-4	B184-1	B184-2	B184-3	B185-1	B185-2	B186-1	DUP-216/Duplicate of B186-1	B186-2	B187-1	B187-2	B187-3	EPA Standard (40 CFR 761.61(a))	REMEDIATION STANDARD REGULATIONS		
SAMPLE DEPTH (feet below grade)	1.0-2.0	2.0-3.0	3.0-4.0	0.0-1.0	1.0-2.0	2.0-3.0	0.0-1.0	1.0-2.0	0.0-1.0		1.0-2.0	0.0-1.0	1.0-2.0	2.0-3.0				
DATE SAMPLED	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	5/14/15	6/30/15	6/30/15	6/30/15				
DATE EXTRACTED	5/15/15	5/23/15	5/23/15	5/15/15	5/15/15	6/11/15	5/15/15	5/15/15	5/15/15	5/15/15	5/15/15	7/1/15	7/1/15	7/1/15				
DATE ANALYZED	5/15/15	5/27/15	5/27/15	5/20/15	5/20/15	6/16/15	5/20/15	5/20/15	5/20/15	5/20/15	5/20/15	7/7/15	7/6/15	7/6/15				
LABORATORY REPORT NUMBER	15E0635	15E0658	15E0658	15E0635	15E0635	15F0479	15E0635	15E0635	15E0635	15E0635	15E0635	15F1510	15F1510	15F1510				
PARAMETER																**RES DEC**	**I/C DEC**	**GB PMC**
Polychlorinated Biphenyls (PCBs) (8082) (mg/kg)																		
PCB-1016	<0.11	<0.11	<0.12	<0.43	<0.44	<0.55	<0.11	<0.11	<0.22	<0.22	<0.11	<0.27	<0.12	<0.11	1	1	10	--
PCB-1221	<0.11	<0.11	<0.12	<0.43	<0.44	<0.55	<0.11	<0.11	<0.22	<0.22	<0.11	<0.27	<0.12	<0.11	1	1	10	--
PCB-1232	<0.11	<0.11	<0.12	<0.43	<0.44	<0.55	<0.11	<0.11	<0.22	<0.22	<0.11	<0.27	<0.12	<0.11	1	1	10	--
PCB-1242	<0.11	<0.11	<0.12	<0.43	<0.44	<0.55	<0.11	<0.11	<0.22	<0.22	<0.11	<0.27	<0.12	<0.11	1	1	10	--
PCB-1248	<0.11	<0.11	<0.12	<0.43	<0.44	<0.55	<0.11	<0.11	<0.22	<0.22	<0.11	<0.27	<0.12	<0.11	1	1	10	--
PCB-1254	**0.44**	**0.33**	<0.12	<0.43	**1.1**	**0.99**	**0.18**	<0.11	<0.22	**0.46**	<0.11	<0.27	<0.12	<0.11	1	1	10	--
PCB-1260	**0.55**	**0.74**	**1.0**	**2.0**	**2.4**	**2.2**	**0.88**	**0.15**	**1.9**	**2.0**	**0.18**	**2.1**	**0.12**	<0.11	1	1	10	--
PCB-1262	<0.11	<0.11	<0.12	<0.43	<0.44	<0.55	<0.11	<0.11	<0.22	<0.22	<0.11	<0.27	<0.12	<0.11	1	1	10	--
PCB-1268	<0.11	<0.11	<0.12	<0.43	<0.44	<0.55	<0.11	<0.11	<0.22	<0.22	<0.11	<0.27	<0.12	<0.11	1	1	10	--
Total PCBs	**0.99**	**1.07**	**1.0**	**2.0**	**3.5**	**3.19**	**1.06**	**0.15**	**1.9**	**2.46**	**0.18**	**2.1**	**0.12**	BDL	1	1	10	--
Total Solids (%)	93.6	88.1	82.1	90.3	88.4	88.8	90.8	87.0	88.7	88.6	91.1	70.7	84.6	86.6	--	--	--	--

May/June 2015 Data QC'd by LEM 7/30/15 & 8/3/15

R:\NUSCO+EVERSOURCE\Berlin Settling Pond\2015\SIP and RBC\Tables\[Table 5 - Summary of 2014 & 2015 Soil Analytical Results.xlsx]Soil Samples

NOTES:

Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised 2002); and the EPA's High Occupancy Cleanup Level (40 CFR 761.61(a)), last revised January 1, 2007.

1. Due to surrogate and/or LCS non-conformances in original extraction, sample was extracted a 2nd time which occurred past the recommended hold time of 14 days
2. Sample was analyzed outsode holding time (analysis requested after recommended holdoign time had passed).

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
BOLD = compound detected at that concentration.

BDL = Below Detection Limit
NT = Not Tested
mg/kg = milligrams per kilogram
-- = Not Applicable

= Exceeds EPA Standard and RES DEC
= Exceeds EPA Standard, RES DEC and I/C DEC

TABLE 6
JULY 2015 GROUNDWATER ANALYTICAL RESULTS
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT

SAMPLE LOCATION	MW-1	MW-2	DUP-MW (MW-2)	MW-3	MW-4	MW-5	MW-6	REMEDIATION STANDARD REGULATIONS[1]	
DATE SAMPLED	7/9/15	7/9/15	7/9/15	7/9/15	NS	7/9/15	7/9/15		
WORK ORDER NO.	15G0488	15G0488	15G0488	15G0488		15G0488	15G0488	SWPC	GWPC
PARAMETER (Units)									
Polychlorinated Biphenyls by EPA method 8082 (ug/L)									
PCB 1016	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB-1221	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB-1232	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB-1242	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB-1248	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB-1254	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB-1260	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB 1262	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
PCB 1268	<0.20	<0.20	<0.20	<0.20	NS	<0.20	<0.20	--	--
Total PCBs	BDL	BDL	BDL	BDL	NS	BDL	BDL	0.5	0.5

QC by LEM 7/28/15

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013)
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to specified laboratory report/Work Order No. 15G0488.

SWPC = Surface Water Protection Criteria
GWPC = Ground Water Protection Criteria
BOLD = compound detected at that concentration.

ug/L = micrograms per liter
BDL = Below Detection Limit
NS = Not Sampled
-- = Not Applicable
NE = Not Established by DEEP

APPENDIX A

Screening Level Ecological Risk Assessment

From: "Trombly, Gary" <Gary.Trombly@ct.gov>
To: Christopher A. Soroka/NUS@NU,
Date: 07/02/2015 12:34 PM
Subject: Settlement Basin comments

Chris,

The Storage Tank and PCB Enforcement Unit of the Bureau of Materials Management and Compliance Assurance and the Planning and Standards Division of the Bureau of Water Protection and Land Reuse have reviewed the Screening Level Ecological Risk Report for Northeast Utilities Service Company (Eversource Energy/CL&P/WMECO) - Berlin Campus Settling Basin, Berlin, CT. The report was prepared by Anchor QEA, LLC on behalf of Weston and Sampson Engineers, Inc. The Report documented PCBs in a onsite stormwater detention basin as well as the receiving stream (unnamed) adjacent to the basin. The following comments are provided by DEEP Planning and Standards Division and the Storage Tank and PCB Enforcement Unit.

It is important to note some general remarks and clarifications after reviewing the submittal for the site. Of particular note, please be aware that any risk conclusions derived from the Massachusetts Contingency Plan, which is designed for Massachusetts regulations, are not necessarily a robust line of evidence for sites in Connecticut. Further, the risk assessment must utilize a conservative approach and care must be taken when averaging analytical results in order to not dilute the true potential risk.

Although averaging sediment results is common in risk assessments, the methods of averaging results to determine a statistic must be conservative for ecological risk. The report included average PCB concentrations from all depth intervals for each location as well as averages for each of the 3 reaches. These methods reduced the risk from PCB concentrations to a large scale, but the dilution of analytical data masks the potential risk at a smaller scale within one or more sample locations and are not considered a conservative approach and are not typically acceptable for determining risk. When comparing to risk screening benchmarks, results must be calculated as a maximum or 95% upper confidence limit (UCL) concentration for most contaminants at each depth interval from samples within a study area.

While the averages presented in the report are not considered a robust line of evidence for a SLERA, the laboratory reporting limit of 0.0045 ppm is well below the sediment screening benchmarks and was beneficial by providing a robust line of evidence for the observed low levels of individual PCB concentrations in the stream.

Given the low levels of PCB concentrations compared to sediment screening values throughout the downstream areas of Reach 1, 2 and 3, the impact to receptors appears to be negligible. PCB analyses with a significantly lower level laboratory reporting limit compared to sediment screening values further support confidence in a negligible risk determination. Based on the information submitted, the ecological risk to receptors is negligible and no further study is needed.

Please be aware that the conclusion of negligible risk holds true only as long as the settling basin is addressed in a timely manner and any remediation of the settling basin does not impact the downstream area with additional PCBs contributions.

Thanks,

Gary

Gary Trombly Jr.
Storage Tank and PCB Enforcement Unit
Division of Emergency Response and Spill Prevention
Bureau of Materials Management and Compliance Assurances
Connecticut Department of Energy and Environmental Protection
79 Elm Street, Hartford, CT 06106-5127
P: 860-424-3486 | F: 860-424-4061 | E: gary.trombly@ct.gov



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SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT

NORTHEAST UTILITIES

BERLIN CAMPUS SETTLING BASIN, BERLIN, CONNECTICUT

Prepared for

Weston & Sampson Engineers, Inc. on Behalf of:

Northeast Utilities

107 Selden Street

Berlin, Connecticut 06037

Prepared by

Anchor QEA, LLC

9 Water Street, First Floor

Amesbury, Massachusetts 01913

January 2015

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LIST OF ACRONYMS AND ABBREVIATIONS

CT DEEP	Connecticut Department of Energy and Environmental Protection
HQ	hazard quotient
mg/kg	milligrams per kilogram
ND	non-detect
NDDB	Natural Diversity Database
NU	Northeast Utilities
PCB	polychlorinated biphenyl
PEC	probable effect concentration
Site	Northeast Utilities Berlin, Connecticut campus
SL1	screening level 1
SLERA	screening level ecological risk assessment
SQG	sediment quality guideline
SQS	sediment quality standard
TEC	threshold effect concentration
TOC	total organic carbon
USEPA	U.S. Environmental Protection Agency

1 INTRODUCTION

This report presents the results of a screening level ecological risk assessment (SLERA) associated with the detection of polychlorinated biphenyls (PCBs) in sediment samples collected from the unnamed stream adjacent to the settling basin located on Northeast Utilities (NU) Berlin, Connecticut campus (Site; Figure 1). This SLERA supports an ongoing Site investigation being conducted within the settling basin and adjacent upland areas.

The objective of this SLERA is to identify if potential risk to aquatic receptors from exposures to PCBs in stream sediments exists. The Connecticut Department of Energy and Environmental Protection (CT DEEP) has not published state-specific guidance on conducting ecological risk assessments, but its risk assessment program references the U.S. Environmental Protection Agency's (USEPA's) *Guidelines for Ecological Risk Assessmen*t (USEPA 1998) and *Framework for Ecological Risk Assessment* (USEPA 1992) as resources. Massachusetts Department of Environmental Protection's state-specific ecological risk guidance (MADEP 1996) also draws from USEPA (1992) guidance. The screening conducted in this SLERA is similar to a Method 3 environmental risk characterization Stage I ecological screening conducted under the Massachusetts Contingency Plan. The remainder of this report follows the general structure described by USEPA (1998) and neighboring state guidance (i.e., Massachusetts), as follows:

- Section 2: Problem Formulation
- Section 3: Analysis
- Section 4: Risk Characterization and Conclusions

1.1 Screening Level Ecological Risk Assessment Summary

A Site visit supported the identification of benthic macroinvertebrate community as the most appropriate primary receptor of concern though overall quality of benthic habitat is not high given the nature of the flow regime and available substrate. To characterize potential risks to the benthic community from direct exposure to PCBs in sediments, Site sediment data collected during three separate sampling events were compared on a reach basis to two sets of freshwater effect-based screening levels. Based upon the results of this SLERA detailed in Sections 2 through 4, concentrations of PCBs in surface sediment (0 to 0.5 foot below the streambed) do not pose a risk to aquatic receptors and do not warrant further ecological risk

evaluation or remediation. The SLERA was conducted following Connecticut and USEPA guidance, which also parallels aspects of Massachusetts's ecological screening framework.

2 PROBLEM FORMULATION

The problem formulation phase of a risk assessment identifies, in part, the ecological receptors that need to be protected by evaluating the nature of the impacts and the habitat of the Site. The problem formulation also involves identification of potentially complete exposure pathways and assessment and measurement endpoints (i.e., identifying what should be evaluated for these receptors and how effects will be characterized). As described in Sections 2.1 and 2.2, this SLERA utilizes Site information based upon existing investigations conducted by Weston & Sampson Engineers, Inc., relating to the upland settling basin and in the stream; as well as the additional sediment samples collected in September 2014 in support of this SLERA.

2.1 Site Description

The proximity of the stream to the NU campus buildings and associated settling basin is provided in an orthophotograph, which also includes the locations of sediment samples used in this SLERA (Figure 2). The riparian habitat adjacent to the entire stream is predominantly densely forested with a mix of floodplain and channelized banks. The stream originates in a forested wetland area northeast of the eastern campus access road. There is a stormwater outlet flowing from an apartment complex under Webster Street into this forested wetland headwater area. From the headwaters, the stream flows in a generally southwesterly direction through mostly forested habitat, passing through a box culvert under the eastern campus access road. The intermittent discharge from the settling basin enters the stream immediately downstream of the eastern campus access road box culvert (Figure 2). The settling basin is grass-covered and receives stormwater runoff from the NU campus during rain events.

Downstream of the confluence with the outlet from the settling basin, the stream continues flowing in a generally southwesterly direction, passing through two above-ground culverts (noted in Figure 2) before passing under Deming Road and discharging into the Mattabessett River. The stream flows into a portion of the Mattabessett River, which is identified as a Connecticut Natural Diversity Database (NDDB) area (Figure 3). The portion of the stream under investigation (upstream of Deming Road) is outside of this NDDB mapped area.

The stream section under investigation between the eastern campus access road and Deming Road is relatively narrow; the average width is 6 to 10 feet in the wider areas and approximately 2 feet in the narrower areas where the stream meanders through a forested wetland. During the September 2014 sediment sampling event, described below in Section 2.2, most visited areas had approximately 1 inch or less of water with no to minimal flow; however, there were areas just upstream of the culverts that were up to 2 feet deep. The stream sediments generally consist of small depositional areas of fine-grained sediments on top of and among areas of cobbles and sand. At these depositional areas, a clay layer was identified at several sampling locations at depths ranging from 4 to 6 inches below the streambed.

2.2 Summary of Existing Stream Sediment Data

PCBs were detected in the settling basin during prior investigations. The only PCBs detected in the basin were Aroclors 1254 and 1260.

In addition to PCB data within the settling basin, stream sediments have been sampled for PCBs in January 2012, April 2014, and September 2014. The locations of the sediment samples are shown in Figure 2 and the results of these three sampling events are summarized in Appendix A (Tables A-1, A-2, and A-3). In response to CT DEEP input on the January 2012 data, Weston & Sampson arranged with ConTest Analytical of East Longmeadow Massachusetts (CT DPH Registration No. PH-0567) to use the lowest technically practicable reporting limits that they could obtain for the April and September sampling. The lowest reportable levels obtained were 0.0045 mg/kg for non-detect samples. PCB detections and other matrix interferences in the samples did cause reportable levels to rise in some of the samples. Reportable levels for each sample are documented on the analytical summary tables included.

The data used for the SLERA are generated from sediment samples collected and analyzed for PCBs within the upper 6 inches of the sediment bed, which is commonly defined as the biologically active zone within surficial sediments. However, PCBs also were analyzed in sediment samples in the 6-inch to 1-foot depth in the sediment bed in April 2014 and September 2014 and this dataset is considered in the uncertainty section of the SLERA and

summarized in Appendix A (Tables A-4 and A-5). Aroclors 1254 and 1260 were the only detected Aroclors in all stream sediment samples except for one. Aroclor 1016 was detected in one sediment sample (S2; 0.25 to 0.5 foot below the streambed at 0.042 milligrams per kilogram [mg/kg]), a concentration slightly above the laboratory reporting limit (0.023 mg/kg). Because it was not detected in any other stream samples or in the upland settling basin data, the SLERA considers only the two detected Aroclors (1254 and 1260).

The January 2012 and April 2014, sediment samples were collected by Weston & Sampson Engineers, Inc., from 14 locations within the stream along an approximately 1,000-foot reach. Consultation and concurrence from CT DEEP occurred prior to the April 2014 sampling event. Samples were collected from depositional areas within the stream and along the banks with some samples only successfully collected after removal of several inches of cobbles from the surface of the streambed. As noted above, these samples were analyzed for PCBs and reported as Aroclors, and the PCB data are summarized in Appendix A. PCB concentrations in the upper 1 foot of the sediment bed range from non-detect (ND) to an Aroclor 1260 concentration of 0.48 mg/kg at location S2 (0.5 to 1 foot below the streambed) located just upstream of the first culvert (Figure 2).

A third round of sediment sampling was conducted in September 2014 by Weston & Sampson and Anchor QEA for risk assessment purposes and included re-sampling certain locations from the April 2014 sampling event; collecting sediment from new locations within the stream reach in the immediate vicinity of the outlet from the settling basin and an upstream reference location; and obtaining total organic carbon (TOC) and grain size data to support evaluation of benthic substrate and exposure pathway assessment in the risk assessment. PCB concentrations from the September 2014 sampling event range from ND to 0.18 mg/kg Aroclor 1260 at location AQ-3 (0.5 to 1 foot below the streambed). PCB concentrations in the reference sample (AQ-6) collected upstream of the eastern campus access road and south of Webster Street were below laboratory reporting limits (less than 0.0047 mg/kg). TOC in the sediment samples ranges from 0.2% (AQ-5, 0 to 0.5 foot below the streambed) to 1.3% (AQ-3, 0.5 to 1 foot below the streambed). Grain size data support the field observations and overall conceptual site model that the stream sediments are predominantly a coarse substrate with gravel and sand composition ranging from approximately 89% (AQ-3, 0.5 to 1 foot below the streambed) to 99% (AQ-1, 0 to 0.25 foot

below the streambed). Finer grained sediments were less dominant with silt and clay composition ranging from approximately 0.3% (AQ-5, 0 to 0.5 foot below the streambed) to 11% (AQ-3, 0 to 0.5 foot below the streambed). A copy of the laboratory analytical report for the September 2014 sediments samples is included in Appendix B.

2.3 Identification of Potentially Exposed Receptors and Assessment Endpoints

The stream appears to support a benthic community, though limited in the locations observed during the September 2014 sampling event. The lack of consistent flow and water depth likely precludes the stream from providing habitat for fish and potentially limits the diversity and abundance of a macroinvertebrate community. Other aquatic and aquatic-dependent receptors (i.e., amphibians, birds, and mammals) could potentially consume macroinvertebrates from the stream, making the benthic invertebrate community an important receptor group for the Site. Given the small size of the stream, the limited fish community (if any exists) and benthic community would provide only a limited food supply for birds and mammals, representing a small portion of their diet. For this SLERA, the benthic community is evaluated as the primary receptor of concern under the assumption that if concentrations of PCBs in stream sediments are low enough to be protective of the benthic community, then these concentrations would also be protective of the limited fish and amphibian communities that may be found in the stream.

Assessment endpoints are attributes of potential receptors that are evaluated in a risk assessment. Specifically, they are "an explicit expression of the environmental value to be protected, operationally defined as an ecological entity and its attributes" (USEPA 1998). Preliminary assessment endpoints identified for this SLERA include protection of benthic communities from changes in structure or function resulting from potential exposure to PCBs in sediments. The mechanisms for evaluating assessment endpoints are measurement endpoints. Measurement endpoints are evaluated in the analysis phase (Section 3) to determine to what degree receptors are exposed and whether that exposure may cause significant adverse effects for complete exposure pathways. For this SLERA, the measurement endpoint is the comparison of PCB concentrations in sediment to conservative benthic community screening levels.

3 ANALYSIS

Measurement endpoints are quantifiable ecological characteristics or measurements that are used to test risk hypotheses and evaluate if the assessment endpoint is protected. Measurement endpoints are evaluated with one or more lines of evidence (a set of data and associated analyses that can be used to estimate ecological risks). For the stream under investigation, potential risks to aquatic receptors from exposure to PCBs within stream sediments were evaluated by comparing PCB concentrations in reaches of the stream (exposure point concentrations) to consensus-based screening levels protective of macroinvertebrates. This comparison is the measurement endpoint evaluated in this SLERA to determine if the assessment endpoint is protected.

3.1 Exposure Point Concentrations

Sediment PCB data from the biologically active zone were separated into three stream reaches primarily based on the culverts located along the stream (Figure 2). Reach 1 consists of samples located between the eastern campus access road and the first above-ground culvert in the stream. The reach of stream between the first and second culvert is considered Reach 2 and the remainder of the portion of the stream under investigation is considered Reach 3. Although the sediment PCB data summarized in Appendix A include data from the upper 1 foot of the sediment bed, only data from the upper 6 inches of the sediment bed are used in the following screening analysis. Given the limited benthic community observed in the stream, the upper 6 inches of the sediment bed is likely where the vast majority of the benthic community resides in this system. As discussed in the uncertainty analysis (Section 4.1), including data from the upper 1 foot does not change the outcome of the SLERA.

Total PCB concentrations were calculated for each sample by summing results for Aroclors 1254 and 1260. Results were averaged by location first and then by reach (calculations reported to two significant digits). One half the reporting limit was conservatively used where Aroclor 1254 and/or Aroclor 1260 were not detected. Calculations are summarized in Table 1.

3.2 Screening Levels

Freshwater sediment screening levels used in this study include Total PCB threshold effect concentration (TEC; 0.0598 mg/kg) and the probable effect concentration (PEC; 0.676 mg/kg) developed by MacDonald et al. (2000). The TEC is a concentration below which adverse effects to the benthic community from exposure to PCBs are unlikely whereas the PEC is a concentration above which effects are likely. Concentrations falling between the TEC and PEC indicate some probability of adverse effects may occur, but they may not be significant. The use of consensus-based values provides a strong weight of evidence by incorporating the results from several different methods and datasets. Several states, including Massachusetts, recommend the use of TECs and PECs in SLERAs (MADEP 2006).

Additionally, Site data were compared to a published macroinvertebrate toxicity-based screening value derived by Avocet (2010) using a regional dataset of paired chemistry and bioassay data from the Pacific Northwest. This sediment quality standard (SQS)/screening level 1 (SL1) value of 0.11 mg/kg dry weight Total PCB Aroclors was recently promulgated as a state sediment cleanup objective in Washington. Under Washington state guidelines, sediment cleanup objectives establish a no adverse effects level, including no acute or chronic adverse effects, to the benthic community. Chemical concentrations at or below the sediment cleanup objectives correspond to sediment quality that results in no adverse effects to the benthic community.

3.3 Screening Results

The mean Total PCB concentrations for each reach and the reference area from Table 1 were compared with the conservative TEC via a hazard quotient (HQ) approach. An HQ is a ratio of a Site concentration to a screening level; if that ratio is greater than 1, there may be potential risk, though that risk may not necessarily be significant. HQs by reach are included in Table 2. Average Total PCB concentrations for Reach 2 and 3 are below the TEC of 0.0598 mg/kg. Average Total PCB concentration for Reach 1 is slightly less than two times the TEC. Of the eight results from individual location averages collected from Reach 1 (Table 1), four exceed the TEC by approximately one (S2) to four times (WSE-17). All reach averages and individual sample results are well below the PEC of 0.676 mg/kg.

Table 2

Total PCB Sediment Screening Summary (0 to 0.5 feet)

Reach	Average Total PCBs 0 to 0.5 foot (mg/kg)	TEC Hazard Quotient
Reach 1	0.11	1.8
Reach 2	0.023	< 1
Reach 3	0.033	< 1
Reference	ND (0.0047)	< 1

Notes:
mg/kg = milligrams per kilogram
ND = non-detect
PCB = polychlorinated biphenyl
TEC = threshold effect concentration

4 RISK CHARACTERIZATION AND CONCLUSIONS

The purpose of this SLERA is to identify whether there are potential risks in the stream under investigation that warrant further investigation (i.e., additional Site-specific risk assessment or remediation) to ensure protection of potentially exposed receptor populations. Specifically, this SLERA assessed potential risks to aquatic receptors exposed to PCBs in sediments of a stream adjacent to a settling basin. Investigations associated with the upland settling basin are ongoing. Based upon the upland investigations completed to date and the existing Aroclor sediment data, the primary constituents of concern for the Site are Aroclors 1254 and 1260. Total PCB concentrations were calculated from three rounds of stream sediment data using these two Aroclors and the results were averaged by reach. The reaches were determined based on the location of culverts along the stream, which appear to provide barriers to downstream sediment migration.

A Site visit supported the identification of benthic macroinvertebrate community as the most appropriate primary receptor of concern. The stream is not likely providing habitat for a fish community and the quality of benthic habitat is not high given the nature of the flow regime and the available substrate. To characterize potential risks to the benthic community from direct exposure to PCBs in sediments, Site sediment data were compared to freshwater consensus-based effect screening levels (MacDonald et al. [2000] TECs and PECs) and other available screening levels also protective of macroinvertebrates (Avocet [2010] SL1 values).

Mean Total PCB concentrations by reach (as well as all individual sample results) are well below the PEC, indicating that adverse effects from the entire stream are not present. Mean concentrations from Reach 2 and the most downstream reach (Reach 3) are below the TEC. Only one location average (S7; 0.088 mg/kg) in Reach 2 exceeded the TEC and because the Reach 2 average is below the TEC, potential risks in Reach 2 as a whole are not present. The Reach 1 HQ is slightly above 1 at 1.8. Reach 1 does not represent a significant length of the total stream, and contains PCB concentrations relatively close to the TEC. Reach average Total PCB concentrations do not exceed the Avocet (2010) SL1 value of 0.11 mg/kg.

4.1 Uncertainty

The following are major assumptions and uncertainties associated with this screening:

- Exposure Depth: The results discussed above characterize potential risks associated with the top 0.5 foot (6 inches) of stream sediments. The biologically active zone can also include the upper 1 foot of the sediment bed. However, as summarized in Table 3, mean Total PCB concentrations by reach estimated by averaging over the top 1 foot of sediment are similar to those estimated by averaging over the top 6 inches.
- ND Handling: One half the reporting limit was assumed for all Aroclor 1254 and Aroclor 1260 results for calculation of Total PCBs. This is likely conservative as Aroclor 1254 was infrequently detected and, thus, calculations likely overestimate actual Total PCB concentrations in locations where Aroclor 1254 was not detected. However, given the relatively low contribution of Aroclor 1254 reporting limits to the overall Total PCB sum, this overestimation would not significantly affect the overall conclusions of the risk assessment. That is, even if undetected results for Aroclors 1254 and 1260 were removed from the Total PCB sums, the reach averages would change minimally and would not alter which reach average exceeded TECs.
- Screening Levels: The TEC and PEC are regularly utilized in SLERAs. As discussed above, additional screening levels protective of the benthic community (Pacific Northwest sediment quality guidelines were developed by Avocet [2010]). The Avocet (2010) Total Aroclors screening level approximately equivalent to a threshold (or no effect) level is 0.11 mg/kg. Mean Total PCBs for each reach are below this sediment quality guideline (SQG). The Avocet (2010) screening level similar to a PEC is 2.5 mg/kg. As with MacDonald et al. (2000) PECs, all Site data are below this level. These two sources of freshwater screening levels developed to be protective of macroinvertebrate toxicity yield similar risk characterization results.

4.2 Screening Level Ecological Risk Assessment Conclusions

Based upon the results of this SLERA, concentrations of PCBs in surface sediment (0 to 0.5 foot below the streambed) do not pose a risk to aquatic receptors, which would warrant further ecological risk evaluation or remediation. All concentrations are below the PEC and most concentrations are below the TEC. Concentrations at the most downstream reach of the stream are below the PCB TEC. The mean Total PCB concentration in Reach 2 is also below the TEC. Though concentrations in sediment collected from the select portions of the stream immediately adjacent to the settling basin outlet (Reach 1) are relatively higher than

the rest of the stream, individual concentrations are below PECs and the mean reach concentration is less than two times the TEC, which supports the overall conclusion of no risk to aquatic receptors within the unnamed stream. The mean Reach 1 Total PCB concentration is also below a published toxicity-based SQS/SL1 value (Avocet [2010] SQS/SL1) set to be protective of macroinvertebrates and recently promulgated as a state sediment cleanup objective in Washington.

5 REFERENCES

Avocet (Avocet Consulting), 2010. *Development of Benthic SQGs for Freshwater Sediments in Washington, Oregon, and Idaho*. Prepared for Washington Department of Ecology and Oregon Department of Environmental Quality. Prepared by Teresa Michelsen, Ph.D. June 2010. Available from: http://www.ecy.wa.gov/programs/tcp/regs/2009MTCA/SedMtgGroupInfo/SGMtgInfo/sg_mtg_100503/100503SQGDraftNEW.pdf

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USEPA, 1998. *Guidelines for Ecological Risk Assessment.* Risk Assessment Forum. USEPA/630/R-95/002F. April 1998.

TABLES

Table 1
Summary of Total PCB Sediment Screening (0 to 0.5 feet) in Unnamed Stream
Northeast Utilities - Berlin Campus Settling Basin

Flow

Reach	Location ID	Aroclor-1254 mg/kg	Aroclor-1260 mg/kg	Total PCB Aroclors mg/kg
Ref	AQ-6	< 0.0047	< 0.0047	ND (0.0047)
1	S1 avg	0.058	0.14	0.19
	AQ-1	< 0.0047	0.0066	0.0090
	WSE-16	< 0.12	< 0.12	ND (0.12)
	WSE-17	< 0.12	0.23	0.29
	WSE-18	< 0.15	< 0.15	ND (0.15)
	AQ-2	< 0.0049	0.022	0.024
	S2 avg	ND (0.013)	0.065	0.078
	AQ-3 avg	0.010	0.044	0.054
Reach 1 Average		0.060	0.097	0.11
2	AQ-4	< 0.0048	0.012	0.014
	AQ-5	< 0.0047	0.0058	0.0082
	S3 avg	ND (0.0023)	0.006	0.0080
	S4 avg	ND (0.0024)	0.012	0.014
	S5 avg	ND (0.0026)	0.044	0.047
	S6 avg	ND (0.0022)	0.007	0.010
	S7 avg	ND (0.018)	0.070	0.088
	S8 avg	ND (0.0037)	ND (0.0037)	ND (0.0074)
	S9 avg	ND (0.0026)	0.010	0.013
Reach 2 Average		ND (0.0044)	0.019	0.023
3	S10 avg	ND (0.0036)	0.051	0.055
	S11 avg	ND (0.0024)	0.0091	0.011
Reach 3 Average		ND (0.0030)	0.030	0.033

Settling Basin Outlet

Culvert 1

Culvert 2

Notes:

Ecological Screening

Total PCB Detect > MacDonald et al. (2000) TEC (0.0598 mg/kg dry weight Total PCBs).

Total PCB Detect > TEC and Avocet (2010) SL1 (0.11 mg/kg dry weight Total PCBs).

Total PCB Detect > TEC, SL1 and PEC (0.676 mg/kg dry weight Total PCBs). None exceed this value.

1 Analysis of PCBs by EPA Method 8082 via Soxhlet Extraction EPA Method 3450C.

2 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.

3 Data first averaged within location (after field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 0.5 foot, then results averaged within a Reach. Non-detect values included at one half the reporting limit.

4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260, reported to two significant digits.

mg/kg = milligrams/kilogram

ND = non-detect

PCB - polychlorinated biphenyl

PEC = Probable Effect Concentration

SL1 = Screening Level 1

TEC = threshold Effect Concentration

Table 3
Summary of Total PCB Sediment Screening (0 to 1 feet) in Unnamed Stream
Northeast Utilities - Berlin Campus Settling Basin

Flow	Reach	Location ID	Aroclor-1254 mg/kg	Aroclor-1260 mg/kg	Total PCB Aroclors mg/kg
	Ref	AQ-6 avg	ND (0.0023)	ND (0.0023)	ND (0.0046)
Settling Basin	**1**	S1 avg	0.050	0.11	0.16
Outlet		AQ-1	< 0.0047	0.0066	0.0090
		WSE-16	< 0.12	< 0.12	ND (0.12)
		WSE-17	< 0.12	0.23	0.29
		WSE-18	< 0.15	< 0.15	ND (0.15)
		AQ-2 avg	ND (0.0037)	0.048	0.051
		S2 avg	ND (0.037)	0.20	0.24
		AQ-3 avg	0.012	0.11	0.12
Culvert 1	**Reach 1 Average**		0.062	0.12	0.14
	2	AQ-4 avg	ND (0.0023)	0.016	0.018
		AQ-5 avg	ND (0.0023)	0.0053	0.0076
		S3 avg	ND (0.0023)	0.0057	0.0080
		S4 avg	ND (0.0024)	0.012	0.014
		S5 avg	ND (0.02)	0.093	0.11
		S6 avg	ND (0.0022)	0.0074	0.010
		S7 avg	ND (0.033)	0.068	0.10
		S8 avg	ND (0.0037)	ND (0.0037)	ND (0.0074)
		S9 avg	ND (0.0026)	0.010	0.013
Culvert 2	**Reach 2 Average**		ND (0.0079)	0.025	0.032
	3	S10 avg	ND (0.0036)	0.051	0.055
		S11 avg	ND (0.0024)	0.0091	0.011
	Reach 3 Average		ND (0.0030)	0.030	0.033

Notes:

Ecological Screening

Total PCB Detect > MacDonald et al. (2000) TEC (0.0598 mg/kg dry weight Total PCBs).

Total PCB Detect > TEC and Avocet (2010) SL1 (0.11 mg/kg dry weight Total PCBs).

Total PCB Detect > TEC, SL1 and PEC (0.676 mg/kg dry weight Total PCBs). None exceed this value.

1 Analysis of PCBs by EPA Method 8082 via Soxhlet Extraction EPA Method 3450C.

2 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.

3 Data first averaged within location (after field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 1 foot, then results averaged within a Reach. Non-detect values included at one half the reporting limit.

4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260, reported to two significant digits.

mg/kg = milligrams/kilogram

ND = non-detect

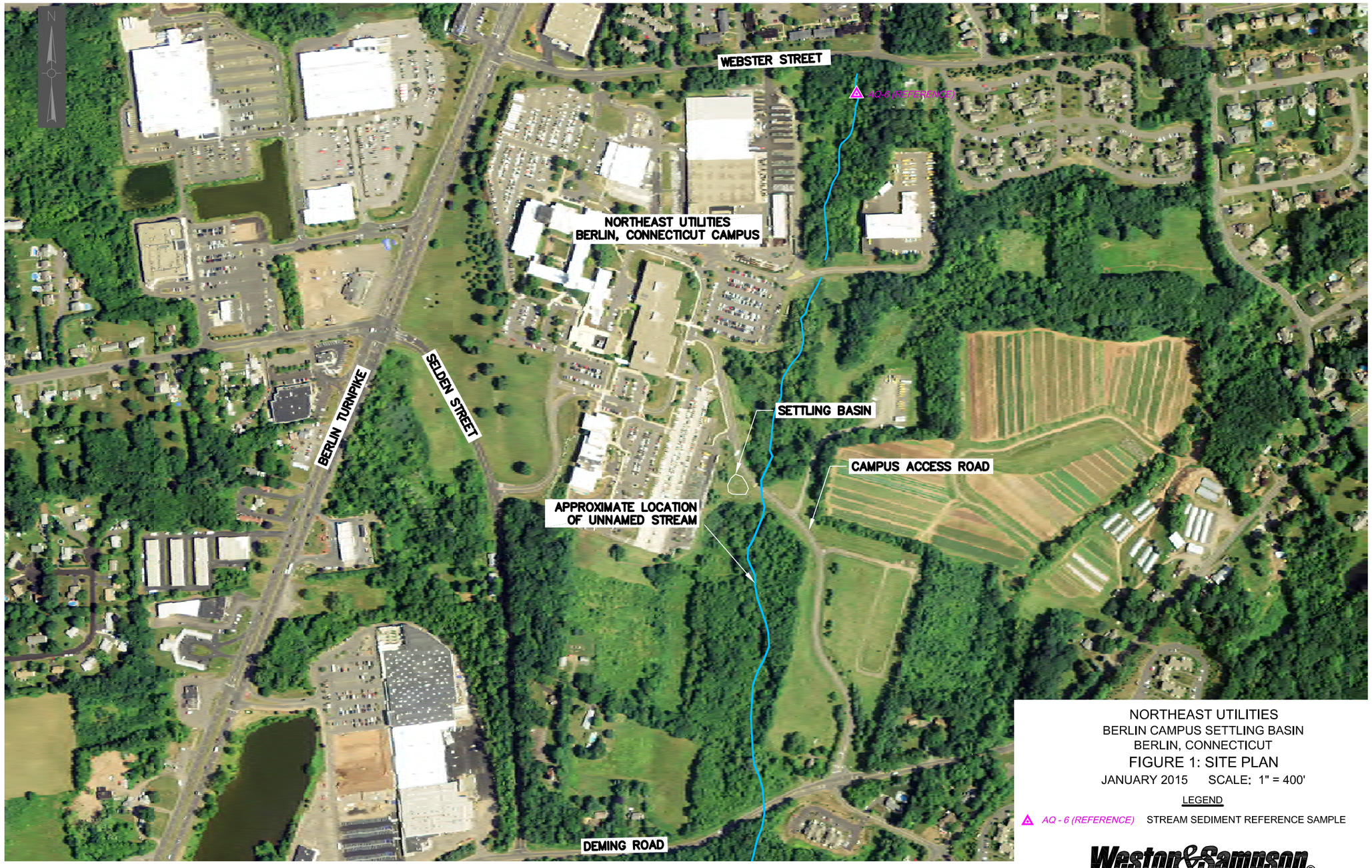
PCB - polychlorinated biphenyl

PEC = Probable Effect Concentration

SL1 = Screening Level 1

TEC = Threshold Effect Concentration

FIGURES



NORTHEAST UTILITIES
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
FIGURE 1: SITE PLAN
JANUARY 2015 SCALE: 1" = 400'

LEGEND

AQ - 6 (REFERENCE) STREAM SEDIMENT REFERENCE SAMPLE

Weston&Sampson®

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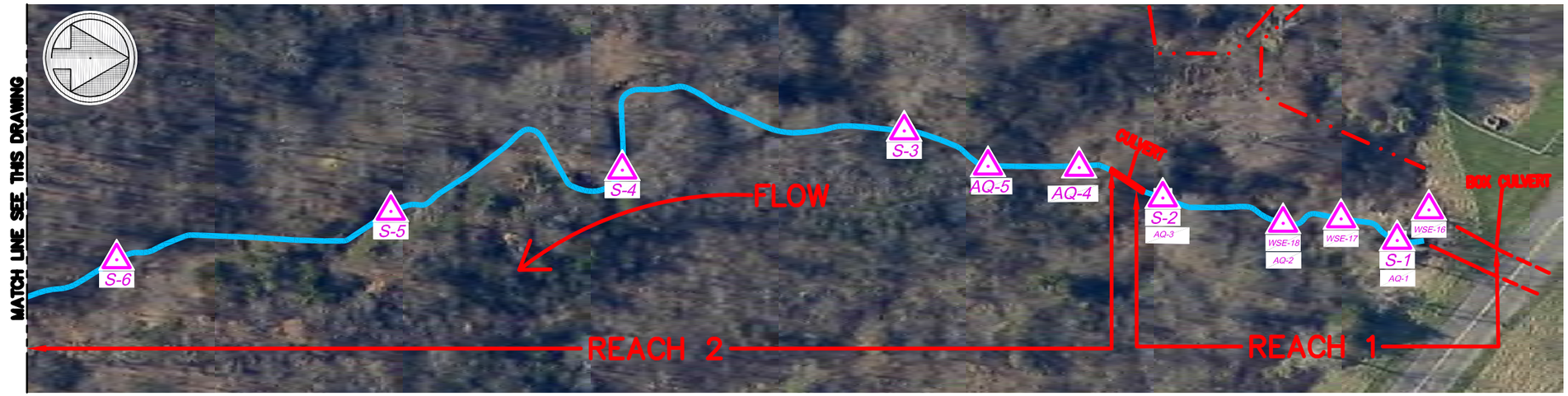

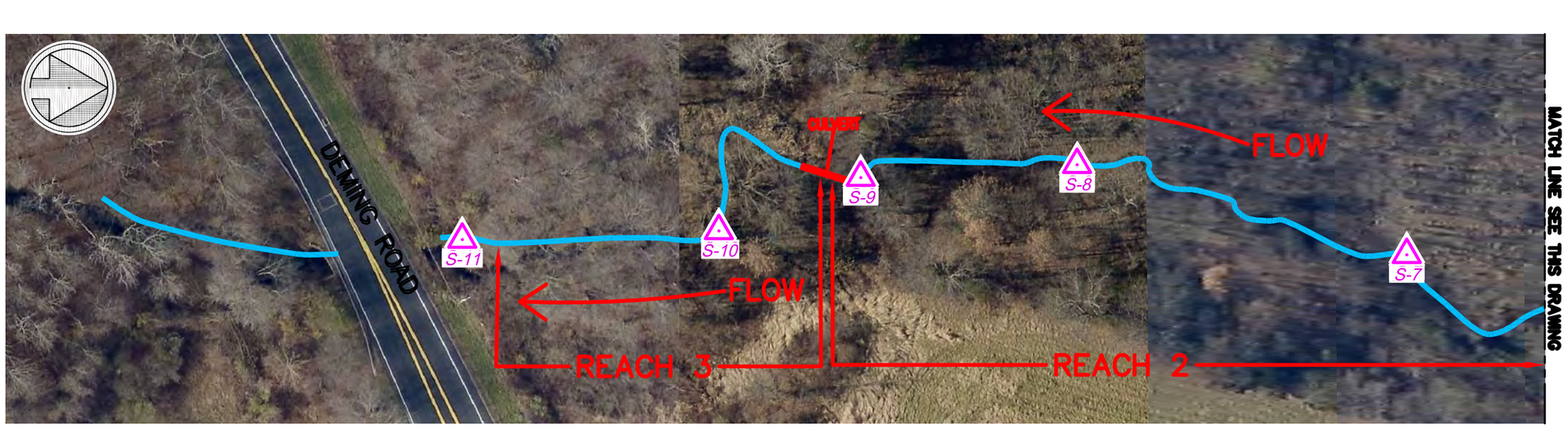

NOTES:
1. AERIAL PHOTOGRAPHY FROM PICTOMETRY ONLINE.
2. SURVEY DATA AND CONTOURS FROM MAP ENTITLED "GRADING, DRAINAGE, SANITARY AND EROSION CONTROL" PREPARED BY RUSSELL GIBSON VON DOHLEN INC, DATED AUGUST 1, 1992,

FIGURE 2
NORTHEAST UTILITIES
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
STREAM SEDIMENT SAMPLING PLAN
JANUARY 2015 SCALE: 1"=60'

Weston&Sampson

LEGEND
STREAM CHANNEL
WETLAND BOUNDARY
S-1 SEDIMENT SAMPLING LOCATION
(BASED ON LOCATION OF NEAREST SEDIMENT DEPOSITION)

R:\NUSCO\Berlin Settling Pond\2013-14\October 2014 PDF Revisions\sediment sampling plan.dwg

Natural Diversity Data Base Areas

BERLIN, CT

June 2014

State and Federal Listed Species & Significant Natural Communities

Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources . Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

www.ct.gov/deep/nddbrequest

This file has PDF Layers. Look for the Layers tab on the left. Expand the layers and use the "eye" icons to change visibility.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011

Connecticut Department of Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division

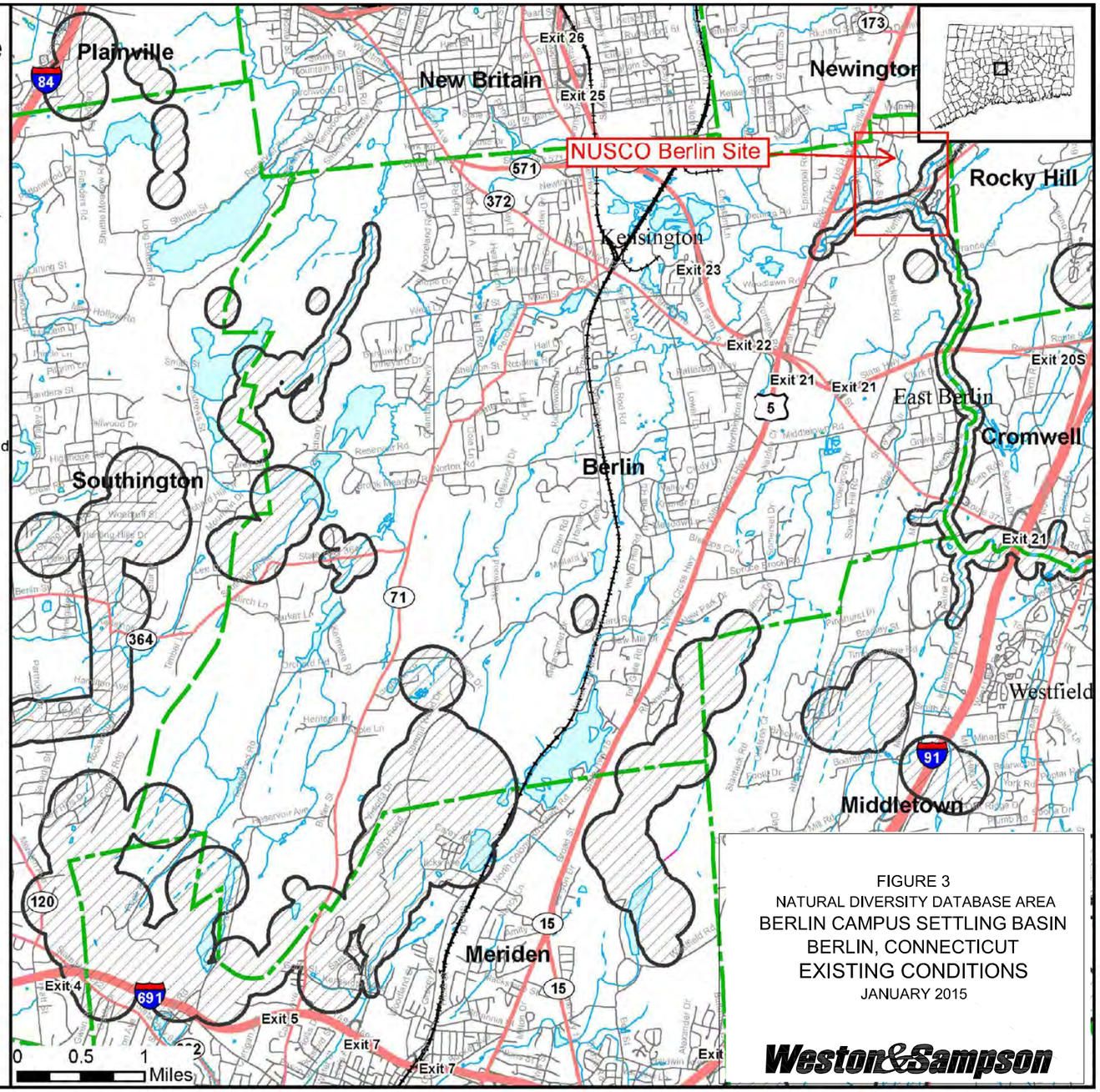

FIGURE 3
NATURAL DIVERSITY DATABASE AREA
BERLIN CAMPUS SETTLING BASIN
BERLIN, CONNECTICUT
EXISTING CONDITIONS
JANUARY 2015

Weston&Sampson

APPENDIX A
SEDIMENT DATA SUMMARY TABLES

Table A-1
Summary of January 2012 Stream Unnamed Stream Sediment Sample PCB Analytical Results
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	**WSE-16**	**WSE-17**	**WSE-18**
Sample Depth (ft)	0-0.5	0-0.5	0-0.5
Sampled Date	1/11/2012	1/11/2012	1/11/2012
Extracted Date	1/11/2012	1/11/2012	1/11/2012
Analyzed Date	1/12/2012	1/12/2012	1/12/2012
Solids (%)	83.5	78.7	68.5
SW-846 8082A (mg/Kg dry)			
Aroclor-1016	<0.12	<0.12	<0.15
Aroclor-1221	<0.12	<0.12	<0.15
Aroclor-1232	<0.12	<0.12	<0.15
Aroclor-1242	<0.12	<0.12	<0.15
Aroclor-1248	<0.12	<0.12	<0.15
Aroclor-1254	< 0.12	< 0.12	< 0.15
Aroclor-1260	< 0.12	0.23	< 0.15
Aroclor-1262	<0.12	<0.12	<0.15
Aroclor-1268	<0.12	<0.12	<0.15
Total PCB Aroclors	ND (0.12)	**0.29**	ND (0.15)

Notes:

1 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.

2 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260.

Table A-2
Summary of April 2014 Unnamed Stream Sediment Sample PCB Analytical Results and Location Average Calculations 0-0.5 feet
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	S1-1	S1-2	S1 Avg	S2-1	S2-2	S2 Avg	S3-1	S3-2	S3 Avg	S4-1	S4-2	S4 avg	S5-1	S5-2	S5 Avg	S6-1	S6-2	S6 Avg
Sample Depth (ft)	**0-0.25**	**0.25-0.5**	**0-0.5**	**0-0.25**	**0.25-0.5**	**0-0.5**	**0-0.25**	**0.25-0.5**	**0-0.5**	**0-0.25**	**0.25-0.5**	**0-0.5**	**0-0.25**	**0.25-0.5**	**0-0.5**	**0-0.25**	**0.25-0.5**	**0-0.5**
Sampled Date	**25-Apr-14**	**25-Apr-14**	**25-Apr-14**	**25-Apr-14**	**25-Apr-14**	**25-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**	**28-Apr-14**
SM 2540G (% Wt)																		
Extracted Date	**4/29/2014**	**4/29/2014**	**4/29/2014**	**4/29/2014**	**4/29/2014**	**4/29/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**	**5/2/2014**
Analyzed Date	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**	**5/5/2014**
Solids (%)	79.7	77.5	78.6	68.2	79.1	73.7	86.4	87.1	86.8	81.6	84.8	83.2	76.8	78.9	77.9	88.9	87.4	88.2
SW-846 8082A (mg/kg dry)																		
Extracted Date	**4/28/2014**	**4/28/2014**	**4/28/2014**	**4/28/2014**	**4/28/2014**	**4/28/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**	**4/30/2014**
Analyzed Date	**5/1/2014**	**5/1/2014**	**5/1/2014**	**5/1/2014**	**5/1/2014**	**5/1/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**	**5/3/2014**
Aroclor-1016	<0.12	<0.025	BRL	<0.028	0.042*	0.042*	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	BRL	<0.0044	<0.0045	BRL
Aroclor-1221	<0.12	<0.025	BRL	<0.028	<0.023	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	BRL	<0.0044	<0.0045	BRL
Aroclor-1232	<0.12	<0.025	BRL	<0.028	<0.023	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	BRL	<0.0044	<0.0045	BRL
Aroclor-1242	<0.12	<0.025	BRL	<0.028	<0.023	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	BRL	<0.0044	<0.0045	BRL
Aroclor-1248	<0.12	<0.025	BRL	<0.028	<0.023	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	BRL	<0.0044	<0.0045	BRL
Aroclor-1254	< 0.12	**0.056**	**0.058**	< 0.028	< 0.023	ND (0.013)	< 0.0045	< 0.0045	ND (0.0023)	< 0.0049	< 0.0047	ND (0.0024)	< 0.0052	< 0.005	ND (0.0026)	< 0.0044	< 0.0045	ND (0.0022)
Aroclor-1260	**0.18**	**0.092**	**0.14**	**0.091**	**0.039**	**0.065**	**0.0052**	**0.0062**	**0.006**	**0.013**	**0.011**	**0.012**	**0.056**	**0.032**	**0.044**	**0.005**	**0.0098**	**0.007**
Aroclor-1262	<0.12	<0.025	BRL	<0.028	<0.023	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	BRL	<0.0044	<0.0045	BRL
Aroclor-1268	<0.12	<0.025	BRL	<0.028	<0.023	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	BRL	<0.0044	<0.0045	BRL
Total PCB Aroclors	**0.24**	**0.148**	**0.19**	**0.11**	**0.051**	**0.078**	**0.0075**	**0.0085**	**0.0080**	**0.015**	**0.013**	**0.014**	**0.059**	**0.035**	**0.05**	**0.007**	**0.012**	**0.010**

Notes:
1 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.
2 BRL - Results for given Aroclor are below laboratory reporting limit in all unnamed stream sediment samples, therefore no average was calculated.
3 Data were first averaged within location (after any field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 0.5 foot.
4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260..
5 * - Aroclor 1016 was not detected in any other stream sediment or upland settling basin sample and is therefore not included in the risk assessment.

Table A-2
Summary of April 2014 Unnamed Stream Sediment Sample PCB Analytical Results and Location Average Calculations 0-0.5 feet
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	S7-1	S7-1 Dup	S7-1 Avg w/dup	S7-2	S7 Avg	S8-1	S8-2	S8 Avg	S9-1	S9-2	S9 Avg	S10-1	S10-2	S10 Avg	S11-1	S11-2	S11 Avg
Sample Depth (ft)	0-0.25	0-0.25	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5
Sampled Date	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14
Extracted Date	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014
Analyzed Date	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014	5/5/2014
Solids (%)	66.6	67.4	67.0	75.1	71.1	51.8	52.7	52.3	78.3	73.7	76.0	78.8	87.9	83.4	78.0	83.6	80.8
SW-846 8082A (mg/kg dry)																	
Extracted Date	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014	4/30/2014
Analyzed Date	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014	5/2/2014
Aroclor-1016	<0.012	<0.011	<0.012	<0.0051	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	<0.0045	<0.0050	<0.0047	BRL
Aroclor-1221	<0.012	<0.011	<0.012	<0.0051	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1232	<0.012	<0.011	<0.012	<0.0051	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1242	<0.012	<0.011	<0.012	<0.0051	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1248	<0.012	<0.011	<0.012	<0.0051	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1254	< 0.12	< 0.011	ND (0.0328)	< 0.0051	ND (0.0177)	< 0.0075	< 0.0073	ND (0.0037)	< 0.0051	< 0.0054	ND (0.0026)	< 0.0099	< 0.0045	ND (0.0036)	< 0.005	< 0.0047	ND (0.0024)
Aroclor-1260	**0.11**	**0.12**	**0.115**	**0.025**	**0.070**	< 0.0075	< 0.0073	ND (0.0037)	**0.0099**	**0.011**	**0.010**	**0.10**	< 0.0045	**0.051**	**0.0096**	**0.0085**	**0.009**
Aroclor-1262	<0.012	<0.011	<0.012	<0.0051	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1268	<0.012	<0.011	<0.012	<0.0051	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Total PCB Aroclors	**0.170**	**0.126**	**0.15**	**0.028**	**0.088**	ND (0.0075)	ND (0.0073)	ND (0.0074)	**0.012**	**0.014**	**0.013**	**0.10**	< 0.0045	**0.055**	**0.012**	**0.011**	**0.011**

Notes:
1 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.
2 BRL - Results for given Aroclor are below laboratory reporting limit in all unnamed stream sediment samples, therefore no average was calculated.
3 Data were first averaged within location (after any field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 0.5 foot.
4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260..
5 * - Aroclor 1016 was not detected in any other stream sediment or upland settling basin sample and is therefore not included in the risk assessment.

Table A-3
Summary of September 2014 Unnamed Stream Sediment Sample PCB Analytical Results and Location Average Calculations 0-0.5 feet
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	AQ-1 S1	AQ-2 S1	AQ-3 S1	Dup-1	AQ-3 S1 Avg w/dup	AQ-4 S1	AQ-5 S1	AQ-6 S1
Sample Depth (ft)	0-0.25	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sampled Date	9/3/2014 10:10:00 AM	9/3/2014 10:25:00 AM	9/3/2014 10:45:00 AM	9/3/2014	9/3/2014	9/3/2014 11:05:00 AM	9/3/2014 11:25:00 AM	9/3/2014 1:55:00 PM
SM 2540G (% Wt)								
Extracted Date	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014
Analyzed Date	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014	9/8/2014
% Solids	81.7	79.8	83.2	80.7	81.95	81.3	81.2	82.8
ASTM D422 (%)								
Extracted Date	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014
Analyzed Date	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014
Gravel	14	31.6	64.6	35.9	50.25	46.5	62.8	1.9
Sand	85.5	66.8	33.1	59.8	46.45	52	36.9	95.8
Silt & Clay	0.5	1.6	2.3	4.3	3.3	1.5	0.3	2.3
SW-846 9060 (mg/kg dry)								
Extracted Date	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014
Analyzed Date	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014
Total Organic Carbon mg/kg	3,460	4,340	5,360	5,100	5,230	2,470	1,510	6,300
SW-846 8082A (mg/Kg dry)								
Extracted Date	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014	9/5/2014
Analyzed Date	9/9/2014	9/9/2014	9/9/2014	9/9/2014	9/9/2014	9/9/2014	9/9/2014	9/9/2014
PCB 1016	< 0.0047	< 0.0049	< 0.0045	< 0.0047	BRL	< 0.0048	< 0.0047	< 0.0047
PCB 1221	< 0.0047	< 0.0049	< 0.0045	< 0.0047	BRL	< 0.0048	< 0.0047	< 0.0047
PCB 1232	< 0.0047	< 0.0049	< 0.0045	< 0.0047	BRL	< 0.0048	< 0.0047	< 0.0047
PCB 1242	< 0.0047	< 0.0049	< 0.0045	< 0.0047	BRL	< 0.0048	< 0.0047	< 0.0047
PCB 1248	< 0.0047	< 0.0049	< 0.0045	< 0.0047	BRL	< 0.0048	< 0.0047	< 0.0047
PCB 1254	< 0.0047	< 0.0049	< 0.0045	**0.018**	**0.010**	< 0.0048	< 0.0047	< 0.0047
PCB 1260	**0.0066**	**0.022**	**0.039**	**0.049**	**0.044**	**0.012**	**0.0058**	< 0.0047
PCB 1262	< 0.0047	< 0.0049	< 0.0045	< 0.0047	BRL	< 0.0048	< 0.0047	< 0.0047
PCB 1268	< 0.0047	< 0.0049	< 0.0045	< 0.0047	BRL	< 0.0048	< 0.0047	< 0.0047
Total PCB Aroclors	0.0090	0.024	0.041	0.067	**0.054**	0.014	0.0082	ND (0.0047)

Notes:
1 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.
2 BRL - Results for given Aroclor are below laboratory reporting limit in all unnamed stream sediment samples, therefore no average was calculated.
3 Data were first averaged within location (after any field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 0.5 foot.
4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260.

Table A-4
Summary of April 2014 Unnamed Stream Sediment Sample PCB Analytical Results and Location Average Calculations 0-1 foot
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	S1-1	S1-2	S1-3	S1 Avg	S2-1	S2-2	S2-3	S2 Avg	S3-1	S3-2	S3 Avg	S4-1	S4-2	S4 avg	S5-1	S5-2	S5-3	S5 Avg	S6-1
Sample Depth (ft)	0-0.25	0.25-0.5	0.5-1	0-1	0-0.25	0.25-0.5	0.5-1	0-1	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0.5-1	0-1	0-0.25
Sampled Date	25-Apr-14	25-Apr-14	25-Apr-14	25-Apr-14	25-Apr-14	25-Apr-14	25-Apr-14	25-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14
SM 2540G (% Wt)																			
Extracted Date	4/29/2014	4/29/2014	4/29/2014		4/29/2014	4/29/2014	5/2/2014		5/2/2014	5/2/2014		5/2/2014	5/2/2014		5/2/2014	5/2/2014	5/2/2014		5/2/2014
Analyzed Date	4/30/2014	4/30/2014	4/30/2014		4/30/2014	4/30/2014	5/5/2014		5/5/2014	5/5/2014		5/5/2014	5/5/2014		5/5/2014	5/5/2014	5/5/2014		5/5/2014
Solids (%)	79.7	77.5	79.6		68.2	79.1	56.6		86.4	87.1		81.6	84.8		76.8	78.9	70.1		88.9
SW-846 8082A (mg/kg dry)																			
Extracted Date	4/28/2014	4/28/2014	4/28/2014		4/28/2014	4/28/2014	4/28/2014		4/30/2014	4/30/2014		4/30/2014	4/30/2014		4/30/2014	4/30/2014	4/30/2014		4/30/2014
Analyzed Date	5/1/2014	5/1/2014	5/1/2014		5/1/2014	5/1/2014	5/1/2014		5/3/2014	5/3/2014		5/3/2014	5/3/2014		5/3/2014	5/3/2014	5/3/2014		5/3/2014
Aroclor-1016	<0.12	<0.025	<0.024	BRL	<0.028	0.042*	<0.17	0.042*	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	<0.11	BRL	<0.0044
Aroclor-1221	<0.12	<0.025	<0.024	BRL	<0.028	<0.023	<0.17	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	<0.11	BRL	<0.0044
Aroclor-1232	<0.12	<0.025	<0.024	BRL	<0.028	<0.023	<0.17	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	<0.11	BRL	<0.0044
Aroclor-1242	<0.12	<0.025	<0.024	BRL	<0.028	<0.023	<0.17	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	<0.11	BRL	<0.0044
Aroclor-1248	<0.12	<0.025	<0.024	BRL	<0.028	<0.023	<0.17	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	<0.11	BRL	<0.0044
Aroclor-1254	< 0.12	**0.056**	**0.034**	**0.050**	< 0.028	< 0.023	< 0.17	ND (0.037)	< 0.0045	< 0.0045	ND (0.0023)	< 0.0049	< 0.0047	ND (0.0024)	< 0.0052	< 0.005	< 0.11	ND (0.020)	< 0.0044
Aroclor-1260	**0.18**	**0.092**	**0.054**	**0.11**	**0.091**	**0.039**	**0.48**	**0.20**	**0.0052**	**0.0062**	**0.006**	**0.013**	**0.011**	**0.012**	**0.056**	**0.032**	**0.19**	**0.093**	**0.0050**
Aroclor-1262	<0.12	<0.025	<0.024	BRL	<0.028	<0.023	<0.17	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	<0.11	BRL	<0.0044
Aroclor-1268	<0.12	<0.025	<0.024	BRL	<0.028	<0.023	<0.17	BRL	<0.0045	<0.0045	BRL	<0.0049	<0.0047	BRL	<0.0052	<0.0050	<0.11	BRL	<0.0044
Total PCB Aroclors	**0.24**	**0.148**	**0.088**	**0.16**	**0.11**	**0.051**	**0.565**	**0.24**	**0.0075**	**0.0085**	**0.0080**	**0.015**	**0.013**	**0.014**	**0.059**	**0.035**	**0.245**	**0.11**	**0.007**

Notes:
1 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.
2 BRL - Results for given Aroclor are below laboratory reporting limit in all unnamed stream sediment samples, therefore no average was calculated.
3 Data were first averaged within location (after any field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 1 foot.
4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260.

Table A-4
Summary of April 2014 Unnamed Stream Sediment Sample PCB Analytical Results and Location Average Calculations 0-1 foot
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	S6-2	S6 Avg	S7-1	S7-1 Dup	S7-1 Avg w/dup	S7-2	S7-3	S7 Avg	S8-1	S8-2	S8 Avg	S9-1	S9-2	S9 Avg	S10-1	S10-2	S10 Avg	S11-1	S11-2	S11 Avg
Sample Depth (ft)	0.25-0.5	0-0.5	0-0.25	0-0.25	0-0.25	0.25-0.5	0.5-1	0-1	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5	0-0.25	0.25-0.5	0-0.5
Sampled Date	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14		28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14	28-Apr-14
SM 2540G (% Wt)																				
Extracted Date	5/2/2014		5/2/2014	5/2/2014		5/2/2014	5/2/2014		5/2/2014	5/2/2014		5/2/2014	5/2/2014		5/2/2014	5/2/2014		5/2/2014	5/2/2014	
Analyzed Date	5/5/2014		5/5/2014	5/5/2014		5/5/2014	5/5/2014		5/5/2014	5/5/2014		5/5/2014	5/5/2014		5/5/2014	5/5/2014		5/5/2014	5/5/2014	
Solids (%)	87.4		66.6	67.4	67	75.1	61.7		51.8	52.7		78.3	73.7		78.8	87.9		78	83.6	
SW-846 8082A (mg/kg dry)																				
Extracted Date	4/30/2014		4/30/2014	4/30/2014		4/30/2014	4/30/2014		4/30/2014	4/30/2014		4/30/2014	4/30/2014		4/30/2014	4/30/2014		4/30/2014	4/30/2014	
Analyzed Date	5/3/2014		5/3/2014	5/3/2014		5/3/2014	5/3/2014		5/3/2014	5/3/2014		5/3/2014	5/3/2014		5/3/2014	5/3/2014		5/3/2014	5/3/2014	
Aroclor-1016	<0.0045	BRL	<0.012	<0.011	<0.012	<0.0051	<0.13	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	<0.0045	<0.0050	<0.0047	BRL
Aroclor-1221	<0.0045	BRL	<0.012	<0.011	<0.012	<0.0051	<0.13	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1232	<0.0045	BRL	<0.012	<0.011	<0.012	<0.0051	<0.13	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1242	<0.0045	BRL	<0.012	<0.011	<0.012	<0.0051	<0.13	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1248	<0.0045	BRL	<0.012	<0.011	<0.012	<0.0051	<0.13	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1254	< 0.0045	ND (0.0022)	< 0.12	< 0.011	ND (0.0328)	< 0.0051	< 0.13	ND (0.033)	< 0.0075	< 0.0073	ND (0.0037)	< 0.0051	< 0.0054	ND (0.0026)	< 0.0099	< 0.0045	ND (0.0036)	< 0.005	< 0.0047	ND (0.0024)
Aroclor-1260	**0.0098**	**0.0074**	**0.11**	**0.12**	**0.115**	**0.025**	ND (0.13)	**0.068**	< 0.0075	< 0.0073	ND (0.0037)	**0.0099**	**0.011**	**0.010**	**0.10**	< 0.0045	**0.051**	**0.0096**	**0.0085**	**0.009**
Aroclor-1262	<0.0045	BRL	<0.012	<0.011	<0.012	<0.0051	<0.13	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Aroclor-1268	<0.0045	BRL	<0.012	<0.011	<0.012	<0.0051	<0.13	BRL	<0.0075	<0.0073	BRL	<0.0051	<0.0054	BRL	<0.0099	<0.0045	BRL	<0.0050	<0.0047	BRL
Total PCB Aroclors	**0.012**	**0.010**	**0.170**	**0.126**	**0.15**	**0.028**	ND (0.13)	**0.102**	ND (0.0075)	ND (0.0073)	ND (0.0074)	**0.012**	**0.014**	**0.013**	**0.10**	ND (0.0045)	**0.055**	**0.012**	**0.011**	**0.011**

Notes:
1 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.
2 BRL - Results for given Aroclor are below laboratory reporting limit in all unnamed stream sediment samples, therefore no average was calculated.
3 Data were first averaged within location (after any field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 1 foot.
4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260.

Table A-5
Summary of September 2014 Unnamed Stream Sediment Sample PCB Analytical Results and Location Average Calculations 0-1 foot
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	AQ-1 S1	AQ-2 S1	AQ-2 S2	AQ-2 avg	AQ-3 S1	Dup-1	AQ-3 S1 Avg w/dup	AQ-3 S2	AQ-3 avg
Sampled Date	**9/3/2014 10:10:00 AM**	**9/3/2014 10:25:00 AM**	**9/3/2014 10:40:00 AM**		**9/3/2014 10:45:00 AM**	**9/3/2014**		**9/3/2014 10:55:00 AM**	
Sample Depth (ft)	**0-0.25**	**0-0.5**	**0.5-1**	**0-1**	**0-0.5**	**0-0.5**	**0-0.5**	**0.5-1**	**0-1**
SM 2540G (% Wt)									
Extracted Date	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**
Analyzed Date	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**
% Solids	81.7	79.8	79.8	79.8	83.2	80.7	81.95	69.2	75.575
ASTM D422 (%)									
Extracted Date	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**
Analyzed Date	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**
Gravel	14	31.6	11.6	21.6	64.6	35.9	50.25	36.7	43.475
Sand	85.5	66.8	79.3	73.05	33.1	59.8	46.45	52	49.225
Silt & Clay	0.5	1.6	9.1	5.35	2.3	4.3	3.3	11.3	7.3
SW-846 9060 (mg/kg dry)									
Extracted Date	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**
Analyzed Date	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**
Total Organic Carbon mg/kg	3460	4340	6050	5195	5360	5100	5230	13840	9535
SW-846 8082A (mg/Kg dry)									
Extracted Date	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**
Analyzed Date	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**
PCB 1016	< 0.0047	< 0.0049	< 0.0098	BRL	< 0.0045	< 0.0047	BRL	< 0.028	BRL
PCB 1221	< 0.0047	< 0.0049	< 0.0098	BRL	< 0.0045	< 0.0047	BRL	< 0.028	BRL
PCB 1232	< 0.0047	< 0.0049	< 0.0098	BRL	< 0.0045	< 0.0047	BRL	< 0.028	BRL
PCB 1242	< 0.0047	< 0.0049	< 0.0098	BRL	< 0.0045	< 0.0047	BRL	< 0.028	BRL
PCB 1248	< 0.0047	< 0.0049	< 0.0098	BRL	< 0.0045	< 0.0047	BRL	< 0.028	BRL
PCB 1254	< 0.0047	< 0.0049	< 0.0098	ND (0.0037)	< 0.0045	**0.018**	**0.010**	< 0.028	**0.012**
PCB 1260	**0.0066**	**0.022**	**0.073**	**0.048**	0.039	**0.049**	**0.044**	**0.18**	**0.11**
PCB 1262	< 0.0047	< 0.0049	< 0.0098	BRL	< 0.0045	< 0.0047	BRL	< 0.028	BRL
PCB 1268	< 0.0047	< 0.0049	< 0.0098	BRL	< 0.0045	< 0.0047	BRL	< 0.028	BRL
Total PCB Aroclors	0.0090	0.024	0.078	0.051	0.041	0.067	**0.054**	0.19	**0.12**

Notes:
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2 BRL - Results for given Aroclor are below laboratory reporting limit in all unnamed stream sediment samples, therefore no average was calculated.
3 Data were first averaged within location (after any field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 1 foot
4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260

Table A-5
Summary of September 2014 Unnamed Stream Sediment Sample PCB Analytical Results and Location Average Calculations 0-1 foot
Northeast Utilities - Berlin Campus Settling Basin

Sample ID	AQ-4 S1	AQ-4 S2	AQ-4 Avg	AQ-5 S1	AQ-5 S2	AQ-5 avg	AQ-6 (Ref) S1	AQ-6 (Ref) S2	AQ-6 avg
Sampled Date	**9/3/2014 11:05:00 AM**	**9/3/2014 11:20:00 AM**		**9/3/2014 11:25:00 AM**	**9/3/2014 11:45:00 AM**		**9/3/2014 1:55:00 PM**	**9/3/2014 2:05:00 PM**	
Sample Depth (ft)	**0-0.5**	**0.5-1**	**0-1**	**0-0.5**	**0.5-1**	**0-1**	**0-0.5**	**0.5-1**	**0-1**
SM 2540G (% Wt)									
Extracted Date	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**
Analyzed Date	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**	**9/8/2014**
% Solids	81.3	84.1	82.7	81.2	81.2	81.2	82.8	84.7	83.75
ASTM D422 (%)									
Extracted Date	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**
Analyzed Date	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**	**9/10/2014**
Gravel	46.5	25.9	36.2	62.8	55.7	59.25	1.9	24.1	13
Sand	52	67.2	59.6	36.9	38.8	37.85	95.8	72.9	84.35
Silt & Clay	1.5	6.9	4.2	0.3	5.5	2.9	2.3	3	2.65
SW-846 9060 (mg/kg dry)									
Extracted Date	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**
Analyzed Date	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**
Total Organic Carbon mg/kg	2470	1710	2090	1510	5870	3690	6300	5820	6060
SW-846 8082A (mg/Kg dry)									
Extracted Date	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**	**9/5/2014**
Analyzed Date	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**	**9/9/2014**
PCB 1016	ND (0.0048)	< 0.0045	BRL	< 0.0047	< 0.0046	BRL	< 0.0047	< 0.0045	BRL
PCB 1221	ND (0.0048)	< 0.0045	BRL	< 0.0047	< 0.0046	BRL	< 0.0047	< 0.0045	BRL
PCB 1232	ND (0.0048)	< 0.0045	BRL	< 0.0047	< 0.0046	BRL	< 0.0047	< 0.0045	BRL
PCB 1242	ND (0.0048)	< 0.0045	BRL	< 0.0047	< 0.0046	BRL	< 0.0047	< 0.0045	BRL
PCB 1248	ND (0.0048)	< 0.0045	BRL	< 0.0047	< 0.0046	BRL	< 0.0047	< 0.0045	BRL
PCB 1254	< 0.0048	< 0.0045	ND (0.0023)	< 0.0047	< 0.0046	ND (0.0023)	< 0.0047	< 0.0045	ND (0.0023)
PCB 1260	**0.012**	**0.019**	**0.016**	**0.0058**	**0.0047**	**0.0053**	< 0.0047	< 0.0045	ND (0.0023)
PCB 1262	ND (0.0048)	< 0.0045	BRL	< 0.0047	< 0.0046	BRL	< 0.0047	< 0.0045	BRL
PCB 1268	ND (0.0048)	< 0.0045	BRL	< 0.0047	< 0.0046	BRL	< 0.0047	< 0.0045	BRL
Total PCB Aroclors	0.014	0.021	0.018	0.0082	0.0070	0.0076	ND (0.0047)	ND (0.0045)	ND (0.0046)

Notes:
1 < - Result is below laboratory reporting limit for sample. Value shown is reporting limit.
2 BRL - Results for given Aroclor are below laboratory reporting limit in all unnamed stream sediment samples, therefore no average was calculated.
3 Data were first averaged within location (after any field duplicates averaged) for samples collected at the same location with bottom depth less than or equal to 1 foot
4 ND - Calculation based on non-detects. One half the laboratory reporting limit was used for non-detects for Aroclors 1254 and 1260

APPENDIX B
LABORATORY ANALYTICAL REPORT

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2014

Chris Soroka
Northeast Utilities
P.O. Box 270
Hartford, CT 06141

Project Location: Berlin Settling Pond
Client Job Number:
Project Number: 2110618A
Laboratory Work Order Number: 14I0111

Enclosed are results of analyses for samples received by the laboratory on September 3, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
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

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Chris Soroka

REPORT DATE: 9/11/2014

PURCHASE ORDER NUMBER: 02274021 Release 5

PROJECT NUMBER: 2110618A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14I0111

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Pond

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
AQ-1 S1	14I0111-01	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-2 S1	14I0111-02	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-2 S2	14I0111-03	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-3 S1	14I0111-04	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-3 S2	14I0111-05	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-4 S1	14I0111-06	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-4 S2	14I0111-07	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Chris Soroka

REPORT DATE: 9/11/2014

PURCHASE ORDER NUMBER: 02274021 Release 5

PROJECT NUMBER: 2110618A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14I0111

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Pond

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
AQ-5 S1	14I0111-08	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-5 S2	14I0111-09	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-6 S1	14I0111-10	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
AQ-6 S2	14I0111-11	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	
Dup-1	14I0111-12	Sediment		SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASHTO
				SW 846 9060	MA M-MA071/CT PH-0520
				SW-846 8082A	

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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.

SW-846 8082A

Qualifications:

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B104556-BS1, B104556-BSD1

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.

Tod E. Kopyscinski
Laboratory Director

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-1 S1 | Sampled: 9/3/2014 10:10

Sample ID: 14I0111-01

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1221 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1232 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1242 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1248 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1254 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1260 [2]	0.0066	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1262 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC
Aroclor-1268 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:12	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	47.0	30-150		9/9/14 15:12
Decachlorobiphenyl [2]	51.2	30-150		9/9/14 15:12
Tetrachloro-m-xylene [1]	35.8	30-150		9/9/14 15:12
Tetrachloro-m-xylene [2]	39.8	30-150		9/9/14 15:12

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-1 S1 | Sampled: 9/3/2014 10:10

Sample ID: 14I0111-01

Sample Matrix: Sediment

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	9/8/14	9/8/14 17:43	HF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111
Date Received: 9/3/2014
Field Sample #: AQ-1 S1 | Sampled: 9/3/2014 10:10
Sample ID: 14I0111-01
Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	3460	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-1 S1 | Sampled: 9/3/2014 10:10

Sample ID: 14I0111-01

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S1 | Sampled: 9/3/2014 10:25

Sample ID: 14I0111-02

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1221 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1232 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1242 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1248 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1254 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1260 [2]	0.022	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1262 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC
Aroclor-1268 [1]	ND	0.0049	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 15:30	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.2	30-150		9/9/14 15:30
Decachlorobiphenyl [2]	59.8	30-150		9/9/14 15:30
Tetrachloro-m-xylene [1]	52.3	30-150		9/9/14 15:30
Tetrachloro-m-xylene [2]	59.5	30-150		9/9/14 15:30

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S1 | Sampled: 9/3/2014 10:25

Sample ID: 14I0111-02

Sample Matrix: Sediment

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	79.8		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S1 | Sampled: 9/3/2014 10:25

Sample ID: 14I0111-02

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	4340	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S1 | Sampled: 9/3/2014 10:25

Sample ID: 14I0111-02

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S2 | Sampled: 9/3/2014 10:40

Sample ID: 14I0111-03

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1221 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1232 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1242 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1248 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1254 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1260 [1]	0.073	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1262 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC
Aroclor-1268 [1]	ND	0.0098	mg/Kg dry	2		SW-846 8082A	9/5/14	9/9/14 23:51	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	37.8	30-150		9/9/14 23:51
Decachlorobiphenyl [2]	42.3	30-150		9/9/14 23:51
Tetrachloro-m-xylene [1]	40.6	30-150		9/9/14 23:51
Tetrachloro-m-xylene [2]	39.4	30-150		9/9/14 23:51

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S2 | Sampled: 9/3/2014 10:40

Sample ID: 14I0111-03

Sample Matrix: Sediment

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	79.8		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S2 | Sampled: 9/3/2014 10:40

Sample ID: 14I0111-03

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	6050	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-2 S2 | Sampled: 9/3/2014 10:40

Sample ID: 14I0111-03

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-3 S1 | Sampled: 9/3/2014 10:45

Sample ID: 14I0111-04

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1221 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1232 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1242 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1248 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1254 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1260 [2]	0.039	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1262 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC
Aroclor-1268 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:06	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		9/9/14 16:06
Decachlorobiphenyl [2]	78.0	30-150		9/9/14 16:06
Tetrachloro-m-xylene [1]	70.7	30-150		9/9/14 16:06
Tetrachloro-m-xylene [2]	83.8	30-150		9/9/14 16:06

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-3 S1 | Sampled: 9/3/2014 10:45

Sample ID: 14I0111-04

Sample Matrix: Sediment

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	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-3 S1 | Sampled: 9/3/2014 10:45

Sample ID: 14I0111-04

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	5360	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-3 S1 | Sampled: 9/3/2014 10:45

Sample ID: 14I0111-04

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-3 S2 | Sampled: 9/3/2014 10:55

Sample ID: 14I0111-05

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1221 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1232 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1242 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1248 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1254 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1260 [1]	0.18	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1262 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB
Aroclor-1268 [1]	ND	0.028	mg/Kg dry	5		SW-846 8082A	9/10/14	9/11/14 12:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.3	30-150		9/11/14 12:45
Decachlorobiphenyl [2]	75.7	30-150		9/11/14 12:45
Tetrachloro-m-xylene [1]	81.3	30-150		9/11/14 12:45
Tetrachloro-m-xylene [2]	72.1	30-150		9/11/14 12:45

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-3 S2 | Sampled: 9/3/2014 10:55

Sample ID: 14I0111-05

Sample Matrix: Sediment

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	69.2		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111
Date Received: 9/3/2014
Field Sample #: AQ-3 S2 | Sampled: 9/3/2014 10:55
Sample ID: 14I0111-05
Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	13840	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-3 S2 | Sampled: 9/3/2014 10:55

Sample ID: 14I0111-05

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S1 | Sampled: 9/3/2014 11:05

Sample ID: 14I0111-06

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1221 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1232 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1242 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1248 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1254 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1260 [1]	0.012	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1262 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB
Aroclor-1268 [1]	ND	0.0048	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 11:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.2	30-150		9/11/14 11:52
Decachlorobiphenyl [2]	84.9	30-150		9/11/14 11:52
Tetrachloro-m-xylene [1]	89.1	30-150		9/11/14 11:52
Tetrachloro-m-xylene [2]	81.3	30-150		9/11/14 11:52

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S1 | Sampled: 9/3/2014 11:05

Sample ID: 14I0111-06

Sample Matrix: Sediment

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	81.3		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S1 | Sampled: 9/3/2014 11:05

Sample ID: 14I0111-06

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	2470	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S1 | Sampled: 9/3/2014 11:05

Sample ID: 14I0111-06

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S2 | Sampled: 9/3/2014 11:20

Sample ID: 14I0111-07

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1221 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1232 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1242 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1248 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1254 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1260 [2]	0.019	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1262 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC
Aroclor-1268 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 16:59	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	89.7	30-150				9/9/14 16:59	
Decachlorobiphenyl [2]	97.8	30-150				9/9/14 16:59	
Tetrachloro-m-xylene [1]	86.6	30-150				9/9/14 16:59	
Tetrachloro-m-xylene [2]	101	30-150				9/9/14 16:59	

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S2 | Sampled: 9/3/2014 11:20

Sample ID: 14I0111-07

Sample Matrix: Sediment

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	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S2 | Sampled: 9/3/2014 11:20

Sample ID: 14I0111-07

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	1710	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-4 S2 | Sampled: 9/3/2014 11:20

Sample ID: 14I0111-07

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-5 S1 | Sampled: 9/3/2014 11:25

Sample ID: 14I0111-08

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1221 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1232 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1242 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1248 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1254 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1260 [2]	0.0058	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1262 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC
Aroclor-1268 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:17	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	44.9	30-150		9/9/14 17:17
Decachlorobiphenyl [2]	49.3	30-150		9/9/14 17:17
Tetrachloro-m-xylene [1]	42.9	30-150		9/9/14 17:17
Tetrachloro-m-xylene [2]	49.1	30-150		9/9/14 17:17

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-5 S1 | Sampled: 9/3/2014 11:25

Sample ID: 14I0111-08

Sample Matrix: Sediment

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	81.2		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-5 S1 | Sampled: 9/3/2014 11:25

Sample ID: 14I0111-08

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	1510	100	mg/Kg	1		SW 846 9060		9/5/14 0:00	SAL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-5 S1 | Sampled: 9/3/2014 11:25

Sample ID: 14I0111-08

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-5 S2 | Sampled: 9/3/2014 11:45

Sample ID: 14I0111-09

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1221 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1232 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1242 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1248 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1254 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1260 [2]	0.0047	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1262 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC
Aroclor-1268 [1]	ND	0.0046	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 17:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.7	30-150		9/9/14 17:35
Decachlorobiphenyl [2]	63.8	30-150		9/9/14 17:35
Tetrachloro-m-xylene [1]	41.2	30-150		9/9/14 17:35
Tetrachloro-m-xylene [2]	45.6	30-150		9/9/14 17:35

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-5 S2 | Sampled: 9/3/2014 11:45

Sample ID: 14I0111-09

Sample Matrix: Sediment

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	81.2		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111
Date Received: 9/3/2014
Field Sample #: AQ-5 S2 | Sampled: 9/3/2014 11:45
Sample ID: 14I0111-09
Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	5870	100	mg/Kg	1		SW 846 9060		9/8/14 0:00	SAL

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-5 S2 | Sampled: 9/3/2014 11:45

Sample ID: 14I0111-09

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-6 S1 | Sampled: 9/3/2014 13:55

Sample ID: 14I0111-10

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1221 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1232 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1242 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1248 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1254 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1260 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1262 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB
Aroclor-1268 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		9/11/14 12:09
Decachlorobiphenyl [2]	77.0	30-150		9/11/14 12:09
Tetrachloro-m-xylene [1]	83.5	30-150		9/11/14 12:09
Tetrachloro-m-xylene [2]	75.8	30-150		9/11/14 12:09

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-6 S1 | Sampled: 9/3/2014 13:55

Sample ID: 14I0111-10

Sample Matrix: Sediment

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	82.8		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-6 S1 | Sampled: 9/3/2014 13:55

Sample ID: 14I0111-10

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	6300	100	mg/Kg	1		SW 846 9060		9/8/14 0:00	SAL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-6 S1 | Sampled: 9/3/2014 13:55

Sample ID: 14I0111-10

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-6 S2 | Sampled: 9/3/2014 14:05

Sample ID: 14I0111-11

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1221 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1232 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1242 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1248 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1254 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1260 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1262 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB
Aroclor-1268 [1]	ND	0.0045	mg/Kg dry	1		SW-846 8082A	9/10/14	9/11/14 12:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.2	30-150		9/11/14 12:27
Decachlorobiphenyl [2]	66.8	30-150		9/11/14 12:27
Tetrachloro-m-xylene [1]	73.6	30-150		9/11/14 12:27
Tetrachloro-m-xylene [2]	65.7	30-150		9/11/14 12:27

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-6 S2 | Sampled: 9/3/2014 14:05

Sample ID: 14I0111-11

Sample Matrix: Sediment

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	84.7		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: AQ-6 S2 | Sampled: 9/3/2014 14:05

Sample ID: 14I0111-11

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	5820	100	mg/Kg	1		SW 846 9060		9/8/14 0:00	SAL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111
Date Received: 9/3/2014
Field Sample #: AQ-6 S2 | Sampled: 9/3/2014 14:05
Sample ID: 14I0111-11
Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: Dup-1 | Sampled: 9/3/2014 00:00

Sample ID: 14I0111-12

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1221 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1232 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1242 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1248 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1254 [2]	0.018	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1260 [2]	0.049	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1262 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC
Aroclor-1268 [1]	ND	0.0047	mg/Kg dry	1		SW-846 8082A	9/5/14	9/9/14 18:29	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		9/9/14 18:29
Decachlorobiphenyl [2]	93.8	30-150		9/9/14 18:29
Tetrachloro-m-xylene [1]	95.1	30-150		9/9/14 18:29
Tetrachloro-m-xylene [2]	105	30-150		9/9/14 18:29

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: Dup-1 | Sampled: 9/3/2014 00:00

Sample ID: 14I0111-12

Sample Matrix: Sediment

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	80.7		% Wt	1		SM 2540G	9/8/14	9/8/14 17:43	HF

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111

Date Received: 9/3/2014

Field Sample #: Dup-1 | Sampled: 9/3/2014 00:00

Sample ID: 14I0111-12

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	5100	100	mg/Kg	1		SW 846 9060		9/8/14 0:00	SAL

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Project Location: Berlin Settling Pond | Sample Description: | Work Order: 14I0111
Date Received: 9/3/2014
Field Sample #: Dup-1 | Sampled: 9/3/2014 00:00
Sample ID: 14I0111-12
Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		%	1		SM D 422-63		9/10/14 0:00	GTX

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
14I0111-01 [AQ-1 S1]	B104365	09/08/14
14I0111-02 [AQ-2 S1]	B104365	09/08/14
14I0111-03 [AQ-2 S2]	B104365	09/08/14
14I0111-04 [AQ-3 S1]	B104365	09/08/14
14I0111-05 [AQ-3 S2]	B104365	09/08/14
14I0111-06 [AQ-4 S1]	B104365	09/08/14
14I0111-07 [AQ-4 S2]	B104365	09/08/14
14I0111-08 [AQ-5 S1]	B104365	09/08/14
14I0111-09 [AQ-5 S2]	B104365	09/08/14
14I0111-10 [AQ-6 S1]	B104365	09/08/14
14I0111-11 [AQ-6 S2]	B104365	09/08/14
14I0111-12 [Dup-1]	B104365	09/08/14

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14I0111-01 [AQ-1 S1]	B104294	10.5	2.00	09/05/14
14I0111-02 [AQ-2 S1]	B104294	10.2	2.00	09/05/14
14I0111-03 [AQ-2 S2]	B104294	10.2	2.00	09/05/14
14I0111-04 [AQ-3 S1]	B104294	10.6	2.00	09/05/14
14I0111-07 [AQ-4 S2]	B104294	10.5	2.00	09/05/14
14I0111-08 [AQ-5 S1]	B104294	10.5	2.00	09/05/14
14I0111-09 [AQ-5 S2]	B104294	10.6	2.00	09/05/14
14I0111-12 [Dup-1]	B104294	10.5	2.00	09/05/14

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14I0111-05RE1 [AQ-3 S2]	B104556	10.2	2.00	09/10/14
14I0111-06RE1 [AQ-4 S1]	B104556	10.4	2.00	09/10/14
14I0111-10RE1 [AQ-6 S1]	B104556	10.4	2.00	09/10/14
14I0111-11RE1 [AQ-6 S2]	B104556	10.4	2.00	09/10/14

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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 B104294 - SW-846 3540C										
Blank (B104294-BLK1)				Prepared: 09/05/14 Analyzed: 09/09/14						
Aroclor-1016	ND	0.0040	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1221	ND	0.0040	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1232	ND	0.0040	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1242	ND	0.0040	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1248	ND	0.0040	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1254	ND	0.0040	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1260	ND	0.0040	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1262	ND	0.0040	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1268	ND	0.0040	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.0040	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.0173*		mg/Kg wet	0.0400		43.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0183*		mg/Kg wet	0.0400		45.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.0155*		mg/Kg wet	0.0400		38.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0163*		mg/Kg wet	0.0400		40.8	30-150			
LCS (B104294-BS1)				Prepared: 09/05/14 Analyzed: 09/09/14						
Aroclor-1016	0.027	0.0040	mg/Kg wet	0.0400		68.5	40-140			
Aroclor-1016 [2C]	0.027	0.0040	mg/Kg wet	0.0400		68.7	40-140			
Aroclor-1260	0.029	0.0040	mg/Kg wet	0.0400		71.4	40-140			
Aroclor-1260 [2C]	0.032	0.0040	mg/Kg wet	0.0400		81.0	40-140			
Surrogate: Decachlorobiphenyl	*0.0330*		mg/Kg wet	0.0400		82.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0341*		mg/Kg wet	0.0400		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.0235*		mg/Kg wet	0.0400		58.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0259*		mg/Kg wet	0.0400		64.7	30-150			
LCS Dup (B104294-BSD1)				Prepared: 09/05/14 Analyzed: 09/09/14						
Aroclor-1016	0.029	0.0040	mg/Kg wet	0.0400		71.5	40-140	4.29	30	
Aroclor-1016 [2C]	0.030	0.0040	mg/Kg wet	0.0400		74.1	40-140	7.53	30	
Aroclor-1260	0.031	0.0040	mg/Kg wet	0.0400		78.1	40-140	9.01	30	
Aroclor-1260 [2C]	0.034	0.0040	mg/Kg wet	0.0400		84.9	40-140	4.73	30	
Surrogate: Decachlorobiphenyl	*0.0324*		mg/Kg wet	0.0400		81.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0318*		mg/Kg wet	0.0400		79.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.0229*		mg/Kg wet	0.0400		57.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0255*		mg/Kg wet	0.0400		63.6	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 B104294 - SW-846 3540C										
Matrix Spike (B104294-MS1)	**Source: 14I0111-09**			Prepared: 09/05/14 Analyzed: 09/09/14						
Aroclor-1016	0.044	0.0047	mg/Kg dry	0.0469	0.0	93.3	40-140			
Aroclor-1016 [2C]	0.048	0.0047	mg/Kg dry	0.0469	0.0	102	40-140			
Aroclor-1260	0.046	0.0047	mg/Kg dry	0.0469	0.0041	89.9	40-140			
Aroclor-1260 [2C]	0.049	0.0047	mg/Kg dry	0.0469	0.0047	94.9	40-140			
Surrogate: Decachlorobiphenyl	*0.0416*		mg/Kg dry	0.0469		88.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0460*		mg/Kg dry	0.0469		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.0495*		mg/Kg dry	0.0469		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0541*		mg/Kg dry	0.0469		115	30-150			
Matrix Spike Dup (B104294-MSD1)	**Source: 14I0111-09**			Prepared: 09/05/14 Analyzed: 09/09/14						
Aroclor-1016	0.034	0.0048	mg/Kg dry	0.0483	0.0	70.9	40-140	24.5	50	
Aroclor-1016 [2C]	0.041	0.0048	mg/Kg dry	0.0483	0.0	85.3	40-140	14.9	50	
Aroclor-1260	0.045	0.0048	mg/Kg dry	0.0483	0.0041	84.3	40-140	3.18	50	
Aroclor-1260 [2C]	0.048	0.0048	mg/Kg dry	0.0483	0.0047	90.5	40-140	1.72	50	
Surrogate: Decachlorobiphenyl	*0.0371*		mg/Kg dry	0.0483		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0412*		mg/Kg dry	0.0483		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.0422*		mg/Kg dry	0.0483		87.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0457*		mg/Kg dry	0.0483		94.6	30-150			
Batch B104556 - SW-846 3540C										
Blank (B104556-BLK1)				Prepared: 09/10/14 Analyzed: 09/11/14						
Aroclor-1016	ND	0.0040	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1221	ND	0.0040	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1232	ND	0.0040	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1242	ND	0.0040	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1248	ND	0.0040	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1254	ND	0.0040	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1260	ND	0.0040	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1262	ND	0.0040	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.0040	mg/Kg wet							
Aroclor-1268	ND	0.0040	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.0040	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.167*		mg/Kg wet	0.200		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.159*		mg/Kg wet	0.200		79.6	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 B104556 - SW-846 3540C										
LCS (B104556-BS1)				Prepared: 09/10/14 Analyzed: 09/11/14						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		77.3	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		70.8	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.1	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140			V-05
Surrogate: Decachlorobiphenyl	*0.159*		mg/Kg wet	0.200		79.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.158*		mg/Kg wet	0.200		79.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.155*		mg/Kg wet	0.200		77.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.147*		mg/Kg wet	0.200		73.6	30-150			
LCS Dup (B104556-BSD1)				Prepared: 09/10/14 Analyzed: 09/11/14						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.0	40-140	16.4	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.9	40-140	16.9	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		90.7	40-140	17.5	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.5	40-140	18.1	30	V-05
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.165*		mg/Kg wet	0.200		82.4	30-150			

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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 B104365 - % Solids										
Duplicate (B104365-DUP1)	**Source: 14I0111-01**			Prepared & Analyzed: 09/08/14						
% Solids	82.1		% Wt		81.7			0.488	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-1 S1

Lab Sample ID: 14I0111-01 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.0058	
	2	0.00	0.00	0.00	0.0066	12.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-2 S1

Lab Sample ID: 14I0111-02 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.020	
	2	0.00	0.00	0.00	0.022	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-2 S2

Lab Sample ID: 14I0111-03 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.073	
	2	0.00	0.00	0.00	0.072	1.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-3 S1

Lab Sample ID: 14I0111-04 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.035	
	2	0.00	0.00	0.00	0.039	10.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-3 S2

Lab Sample ID: 14I0111-05RE1 Date(s) Analyzed: 09/11/2014 09/11/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.17	4.0

con-test® ANALYTICAL LABORATORY
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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-4 S1

Lab Sample ID: 14I0111-06RE1 Date(s) Analyzed: 09/11/2014 09/11/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.012	
	2	0.00	0.00	0.00	0.011	4.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-4 S2

Lab Sample ID: 14I0111-07 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.015	
	2	0.00	0.00	0.00	0.019	22.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

AQ-5 S1

Lab Sample ID: 14I0111-08 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.0049	
	2	0.00	0.00	0.00	0.0058	16.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Dup-1

Lab Sample ID: 14I0111-12 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.015	
	2	0.00	0.00	0.00	0.018	20.2
Aroclor-1260	1	0.00	0.00	0.00	0.043	
	2	0.00	0.00	0.00	0.049	13.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B104294-BS1 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.027	
	2	0.00	0.00	0.00	0.027	1
Aroclor-1260	1	0.00	0.00	0.00	0.029	
	2	0.00	0.00	0.00	0.032	11

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B104294-BSD1 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.029	
	2	0.00	0.00	0.00	0.030	5
Aroclor-1260	1	0.00	0.00	0.00	0.031	
	2	0.00	0.00	0.00	0.034	8

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B104294-MS1 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.044	
	2	0.00	0.00	0.00	0.048	9
Aroclor-1260	1	0.00	0.00	0.00	0.046	
	2	0.00	0.00	0.00	0.049	6

con-test® ANALYTICAL LABORATORY
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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B104294-MSD1 Date(s) Analyzed: 09/09/2014 09/09/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.034	
	2	0.00	0.00	0.00	0.041	18
Aroclor-1260	1	0.00	0.00	0.00	0.045	
	2	0.00	0.00	0.00	0.048	7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B104556-BS1 Date(s) Analyzed: 09/11/2014 09/11/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.15	
	2	0.00	0.00	0.00	0.14	10
Aroclor-1260	1	0.00	0.00	0.00	0.15	
	2	0.00	0.00	0.00	0.14	8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B104556-BSD1 Date(s) Analyzed: 09/11/2014 09/11/2014

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.17	7
Aroclor-1260	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.17	6

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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
	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 did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,NJ

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

14I0111

Page 1 of 2

Company Name: Weston and Sampson (for NUSCO)
Address: 273 Dividend Rd
Rocky Hill, CT 06067
Attention: Laura Yellen
Project Location: Berlin Settling Basin (Berlin, CT)
Sampled By: W. Sirotnak/

Telephone: 860 513-1473
Project # 860 513-1483
Client PO# 02274021, Release 5

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax # christopher.soroka@nu.com
Email: yellenl@wseinc.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs via soxhlet method (8082/3540)	Total Organic Carbon (TOC)	Grain Analysis
01	AQ-1 S1	9/3/14	1010			O	U	✓	✓	✓
—	~~AQ-1 S2~~									
02	AQ-2 S1	9/3/14	1025					✓	✓	✓
03	AQ-2 S2		1040					✓	✓	✓
04	AQ-3 S1		1045					✓	✓	✓
05	AQ-3 S2		1055					✓	✓	✓
06	AQ-4 S1		1105					✓	✓	✓
07	AQ-4 S2		1120					✓	✓	✓
08	AQ-5 S1		1125					✓	✓	✓
09	AQ-5 S2	↓	1145					✓	✓	✓

# of Containers: 3 | 1 | A
** Preservation: | | |
***Container Code: | | |

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Sediment

Comments: 2.7 C
Email data to C. Soroka (christopher.soroka@nu.com) and L. Yellen (yellenl@wseinc.com)

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	9/3/14	Date/Time: 3??
Received by: (signature)	9/3/14	Date/Time: 32?
Relinquished by: (signature)	9/3/14	Date/Time: 422
Received by: (signature) 513°C	9/3/14	Date/Time: 16:27

Turnaround ††
☐ 7-Day
☐ 10-Day
☑ Other 5 DAY
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: CT RSRs GWPC/SWPC
Other:

Is your project MCP or RCP ?
○ MCP Form Required
◉ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

14I0111

Page 2 of 2

Company Name: Weston and Sampson (for NUSCO)
Telephone: 860 513-1473
Address: 273 Dividend Rd
Rocky Hill, CT 06067
Project # 860 513-1483
Client PO# 02274021, Release 5
Attention: Laura Yellen
Project Location: Berlin Settling Basin (Berlin, CT)
Sampled By: W. Sirotnak/

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax # christopher.soroka@nu.com
Email: yellenl@wseinc.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs via soxhlet method (8082/3540)	Total Organic Carbon (TOC)	Grain Analysis	# of Containers	** Preservation	***Container Code
											3	I	A
10	AQ-C S1	9/3/14	1355			O	U	✓	✓	✓			
11	AQ-6 S2	↓	1405			↓	↓	✓	✓	✓			
12	Dup-1	↓	—			↓	↓	✓	✓	✓			

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Sediment

Comments:
Email data to C. Soroka (christopher.soroka@nu.com) and L. Yellen (yellenl@wseinc.com)
2.7C

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	9/3/14	Date/Time: 3:30
Received by: (signature)	9/3/14	Date/Time: 3:30
Relinquished by: (signature)	9/3/14	Date/Time: 4:05
Received by: (signature)	9/3/14	Date/Time: 16:27

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5 DAY
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: CT RSRs GWPC/SWPC
Other:

Is your project MCP or RCP ?
○ MCP Form Required
◉ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Weston + Sampson RECEIVED BY: MT DATE: 9/3/14

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included

2) **Does the chain agree with the samples?** (Yes) No

If not, explain:

3) **Are all the samples in good condition?** (Yes) No

If not, explain:

4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.3 °C

5) **Are there Dissolved samples for the lab to filter?** Yes (No)

Who was notified _____ Date _____ Time _____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)

Who was notified _____ Date _____ Time _____

7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____

9) **Do all samples have the proper Base pH:** Yes No (N/A) _____

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	36A
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Coliform / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** **Date/Time:**

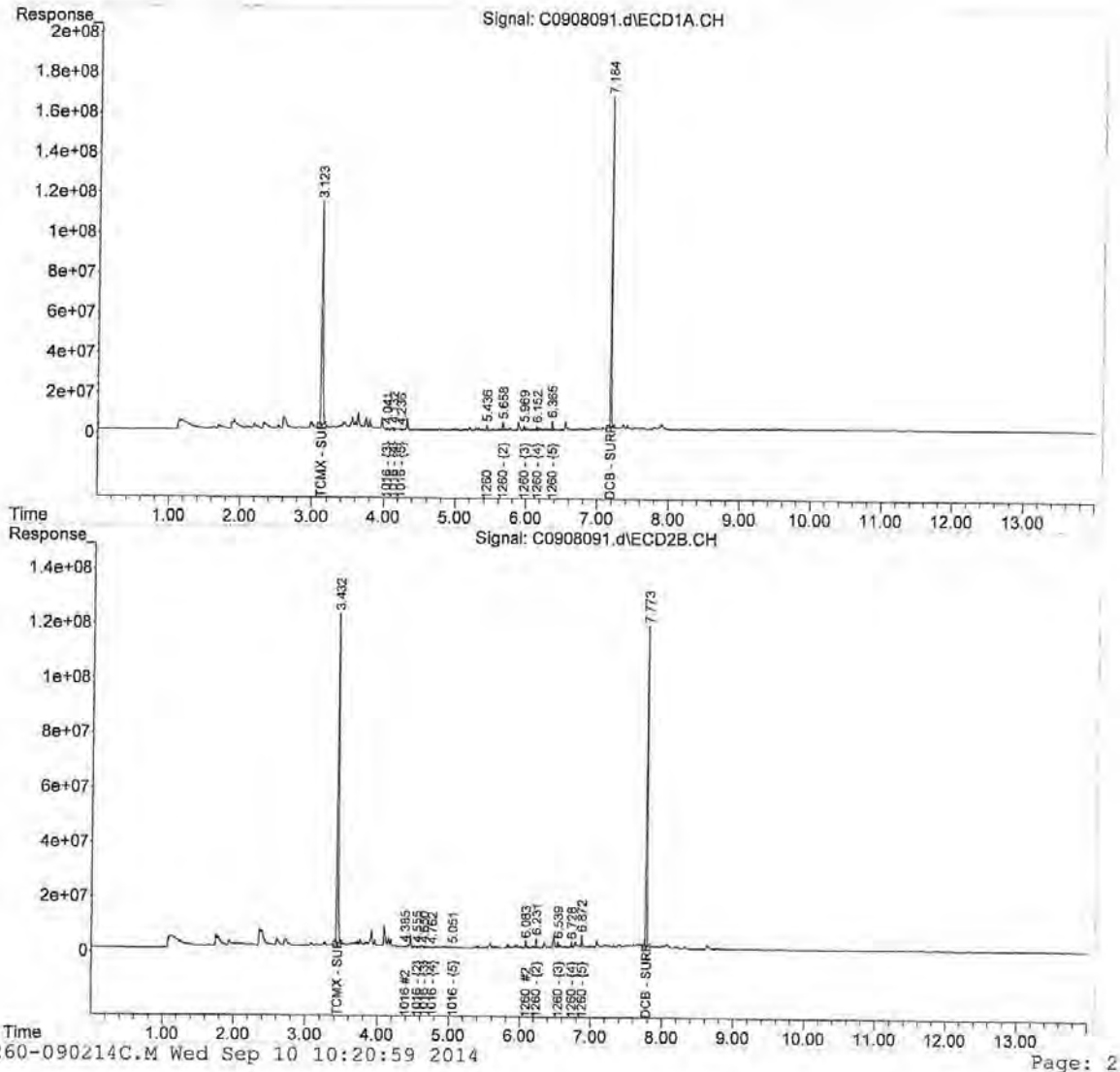
MJ 9/3/14 16:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090814\
Data File : C0908091.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Sep 2014 15:12 pm
Operator : JMB
Sample : 14I0111-01@TBA Inst : DUAL ECD3
Misc :
ALS Vial : 91 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
Integration File signal 2: 1016-BACK.E
Quant Time: Sep 10 08:46:02 2014
Quant Method : C:\msdchem\1\methods\3-1260-090214C.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 21:59:13 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



3-1260-090214C.M Wed Sep 10 10:20:59 2014 Page: 2

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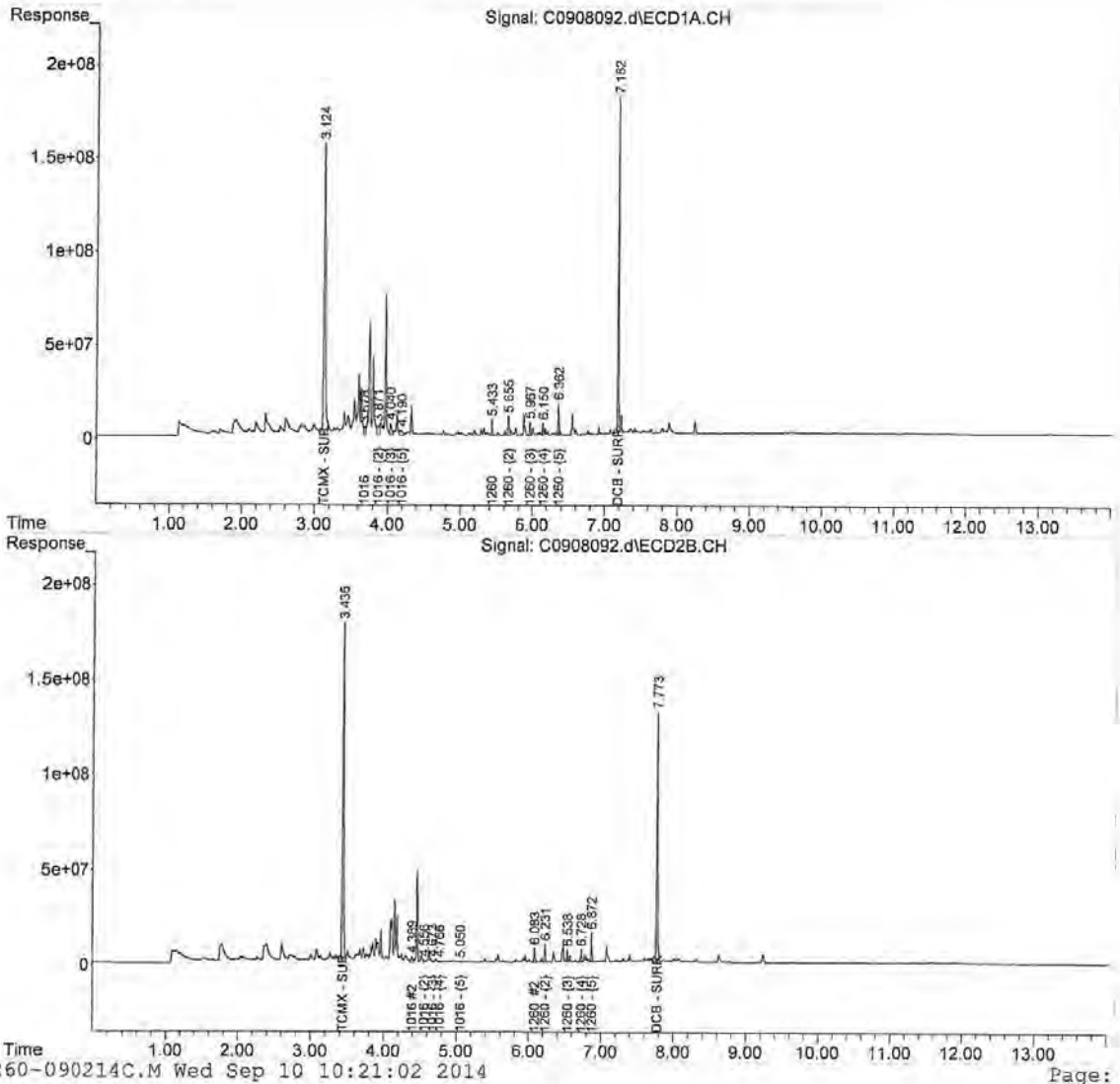
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090814\
Data File : C0908092.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Sep 2014 15:30 pm
Operator : JMB
Sample : 14I0111-02@TBA Inst : DUAL ECD3
Misc :
ALS Vial : 92 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
Integration File signal 2: 1016-BACK.E
Quant Time: Sep 10 08:47:55 2014
Quant Method : C:\msdchem\1\methods\3-1260-090214C.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 21:59:13 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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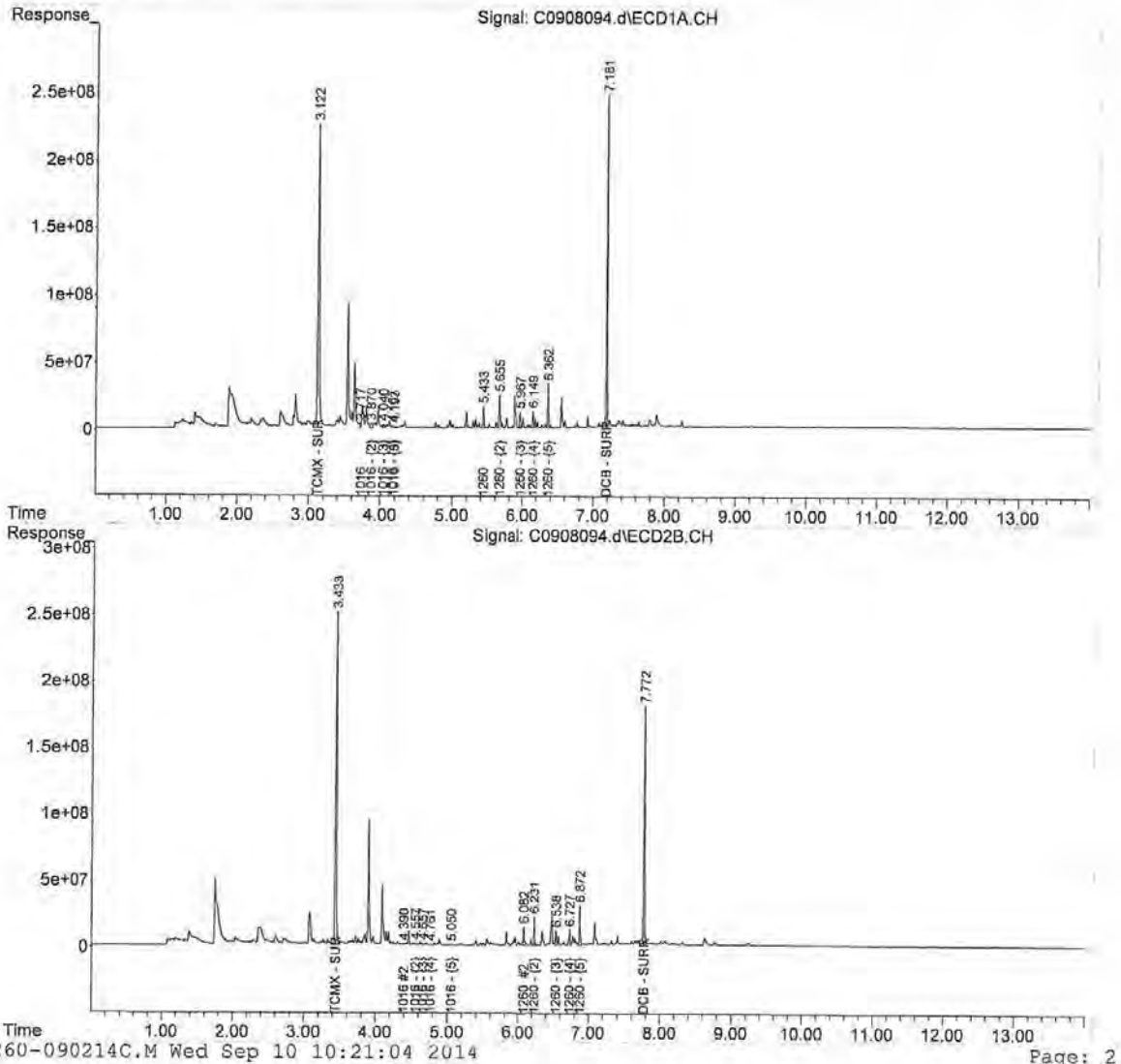
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090814\
Data File : C0908094.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Sep 2014 16:06 pm
Operator : JMB
Sample : 14I0111-04@TBA Inst : DUAL ECD3
Misc :
ALS Vial : 94 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
Integration File signal 2: 1016-BACK.E
Quant Time: Sep 10 08:50:56 2014
Quant Method : C:\msdchem\1\methods\3-1260-090214C.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 21:59:13 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

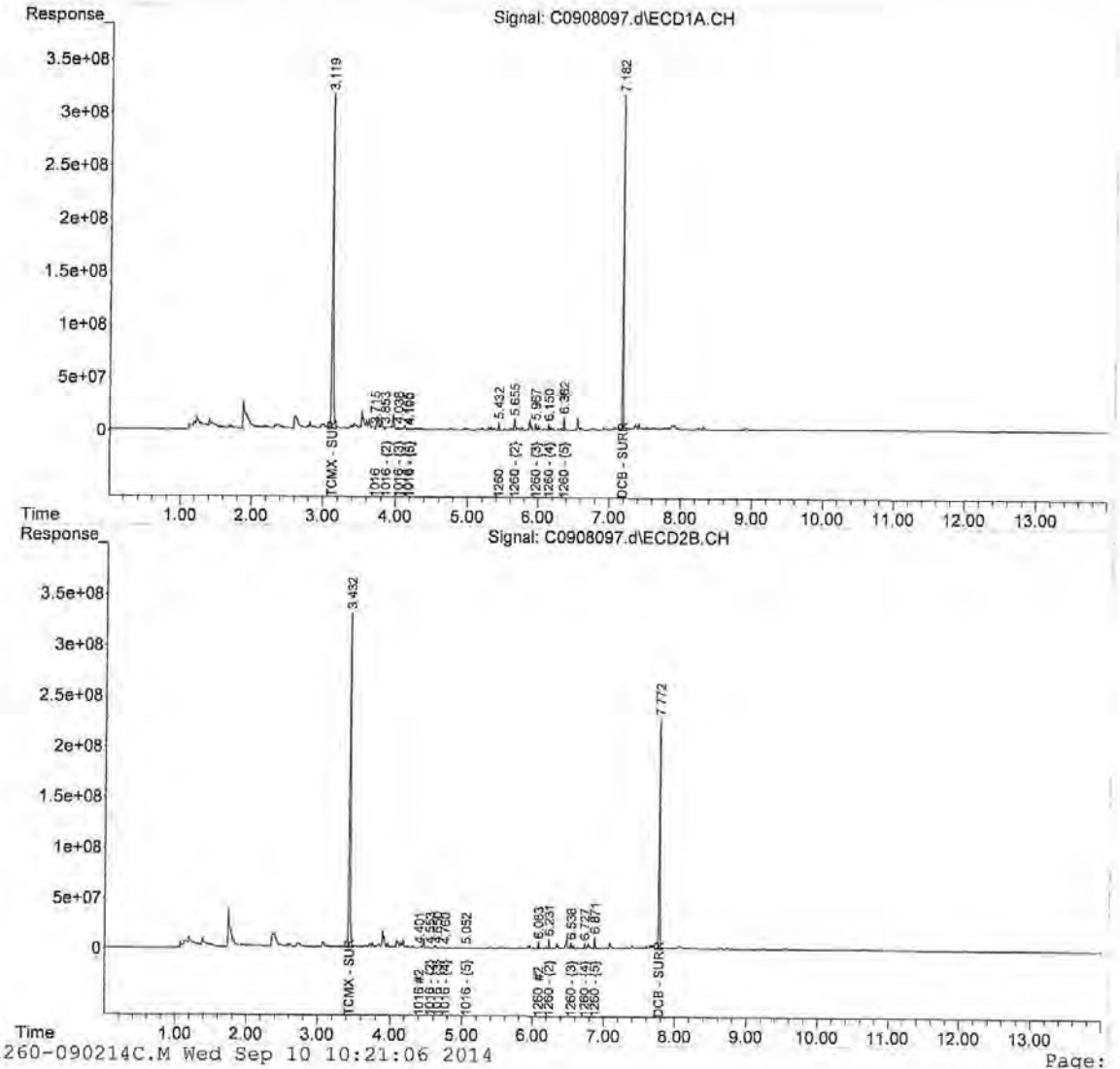


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090814\
Data File : C0908097.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Sep 2014 16:59 pm
Operator : JMB
Sample : 14I0111-07@TBA Inst : DUAL ECD3
Misc :
ALS Vial : 97 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
Integration File signal 2: 1016-BACK.E
Quant Time: Sep 10 08:59:03 2014
Quant Method : C:\msdchem\1\methods\3-1260-090214C.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 21:59:13 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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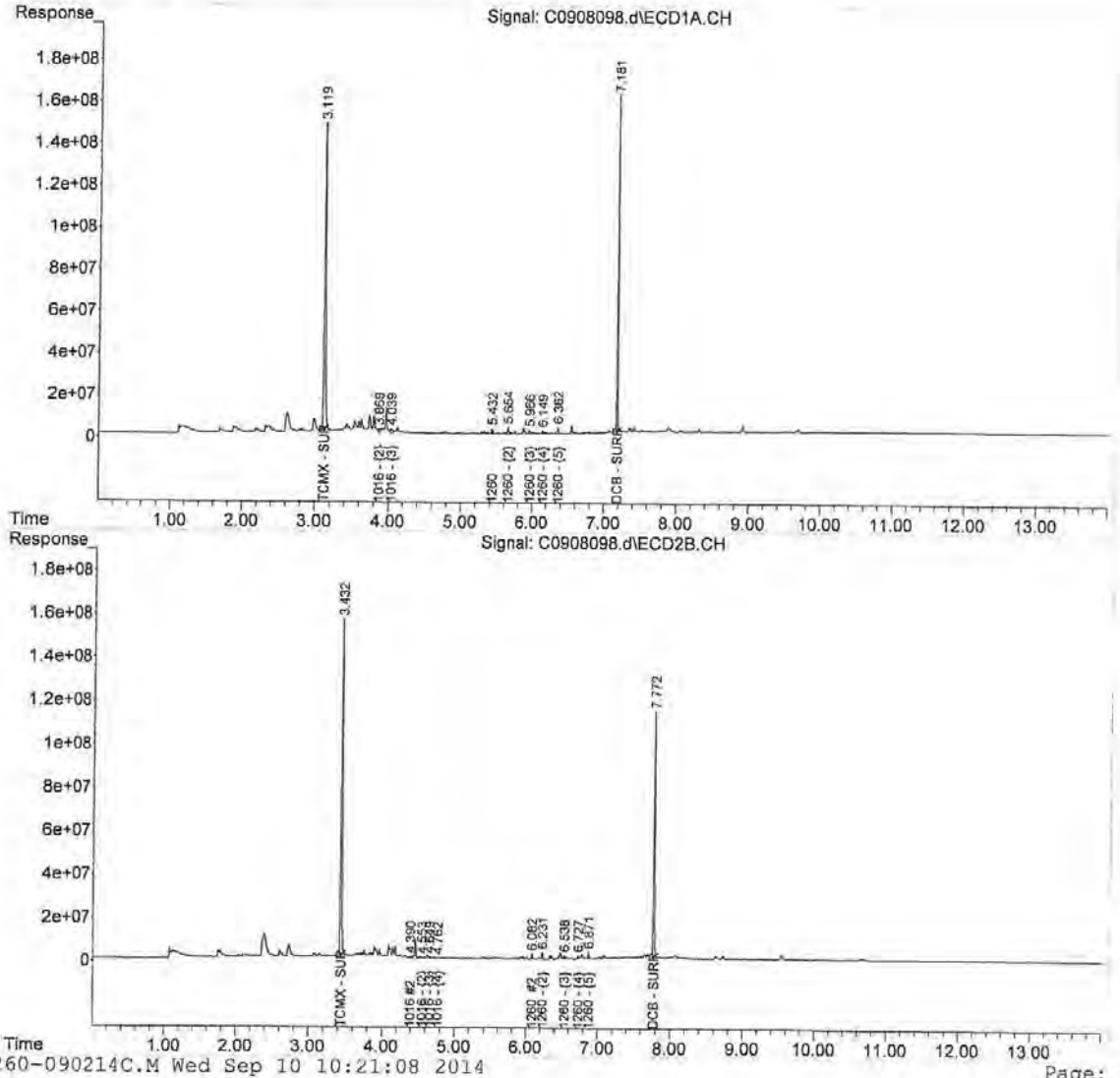
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090814\
Data File : C0908098.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Sep 2014 17:17 pm
Operator : JMB
Sample : 14I0111-08@TBA Inst : DUAL ECD3
Misc :
ALS Vial : 98 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
Integration File signal 2: 1016-BACK.E
Quant Time: Sep 10 09:01:06 2014
Quant Method : C:\msdchem\1\methods\3-1260-090214C.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 21:59:13 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

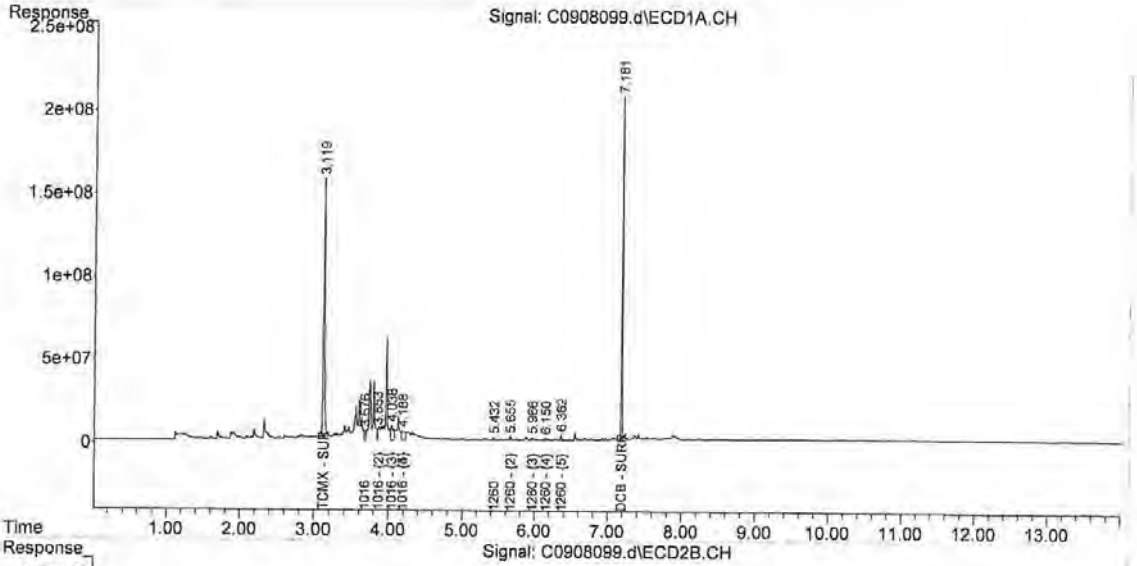


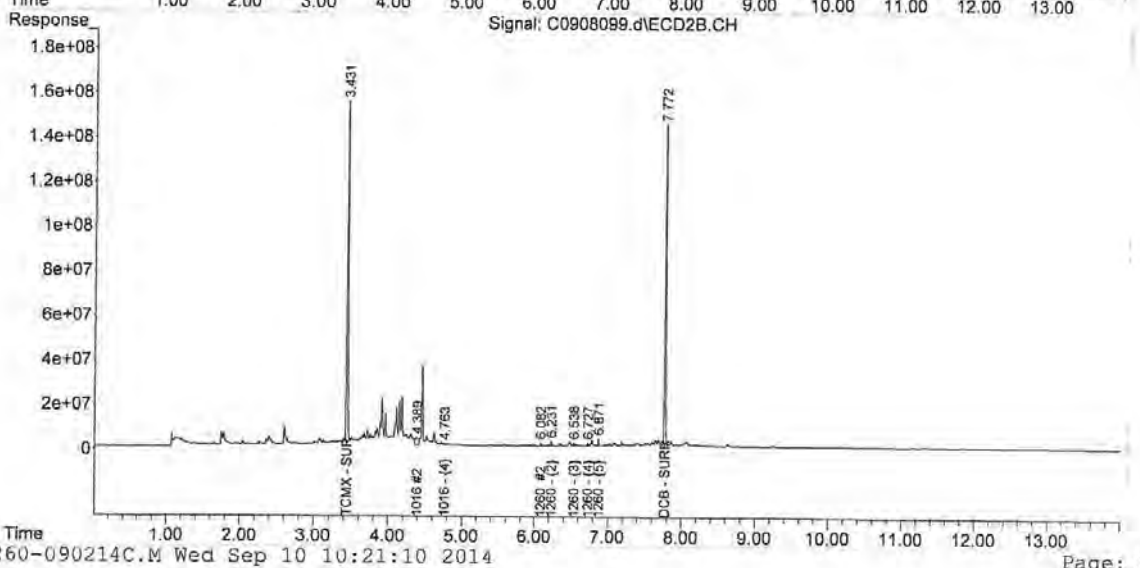
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090814\
Data File : C0908099.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Sep 2014 17:35 pm
Operator : JMB
Sample : 14I0111-09@TBA Inst : DUAL ECD3
Misc :
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
Integration File signal 2: 1016-BACK.E
Quant Time: Sep 10 09:02:28 2014
Quant Method : C:\msdchem\1\methods\3-1260-090214C.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 21:59:13 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





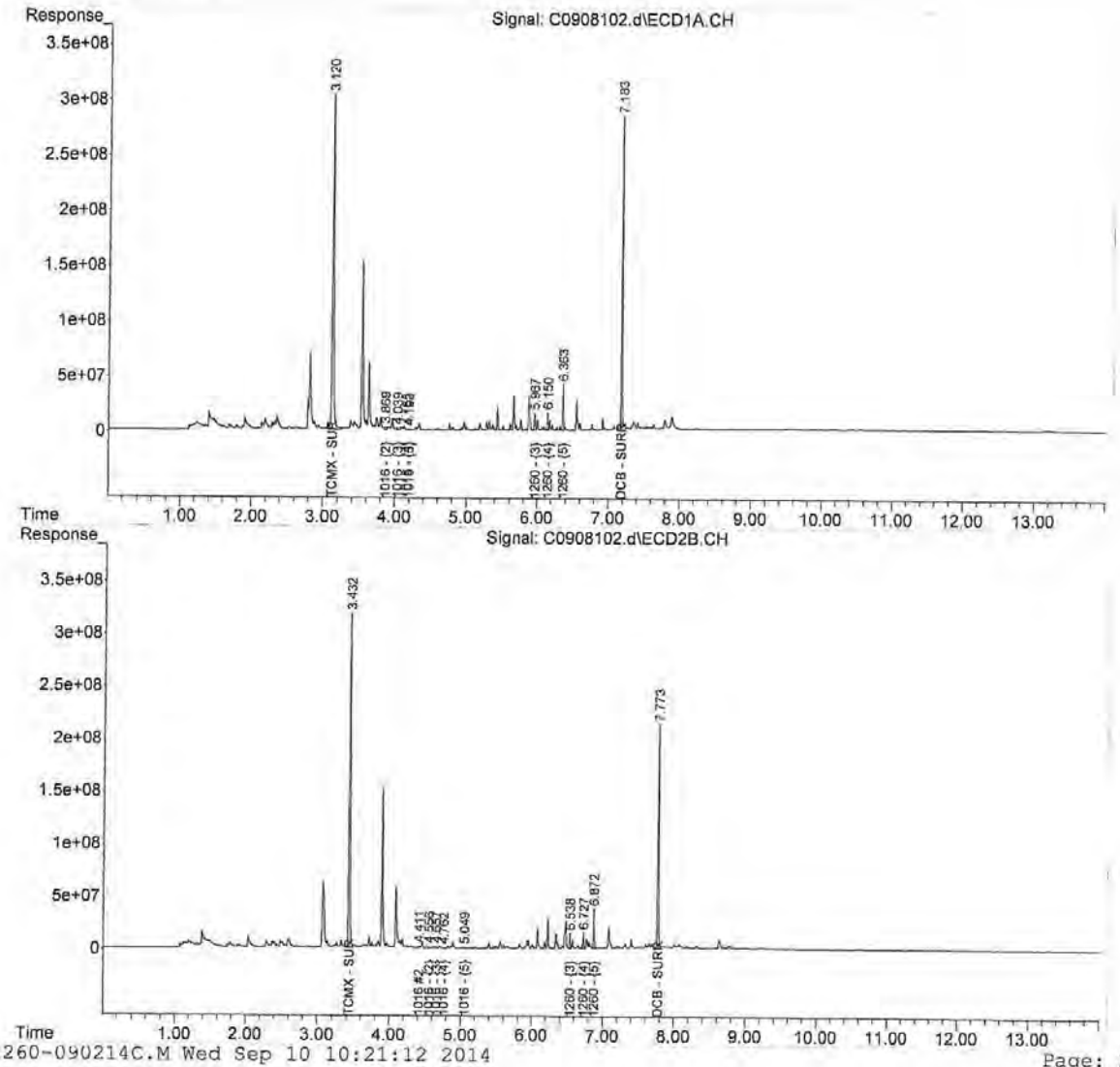
3-1260-090214C.M Wed Sep 10 10:21:10 2014 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090814\
Data File : C0908102.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Sep 2014 18:29 pm
Operator : JMB
Sample : 14I0111-12@TBA Inst : DUAL ECD3
Misc :
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: FRONT-1016.E
Integration File signal 2: 1016-BACK.E
Quant Time: Sep 10 09:08:07 2014
Quant Method : C:\msdchem\1\methods\3-1260-090214C.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 21:59:13 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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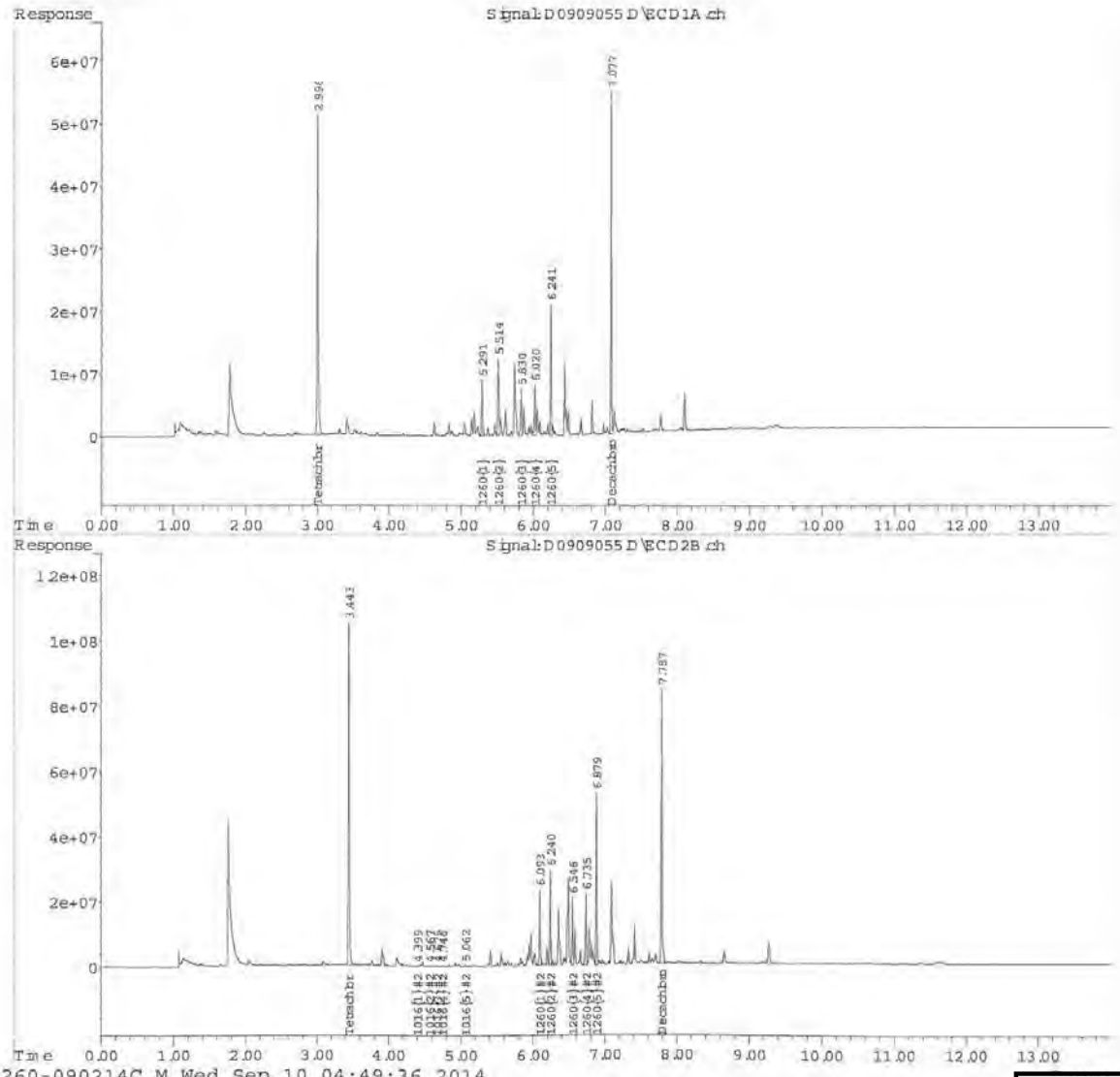
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\090914\
Data File : D0909055.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2014 11:51 pm
Operator : JMB
Sample : 14I0111-03@2X TBA Inst : ECD 4
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
Integration File signal 2: 1260-BACK.E
Quant Time: Sep 10 04:49:33 2014
Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-090214C.M
DataAcq Meth:PCBLONG.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 16:07:47 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



4-1260-090214C.M Wed Sep 10 04:49:36 2014

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Sterling Analytical, Inc.
15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-6842
email-madhu@sterlinganalytical.com

Mass Certification - MA-00071
Conn Certification - PH-0520

Visit our website: www.sterlinganalytical.com

Report Date September 9, 2014

Customer	Contact	Laboratory Supervisor	eMail
Con-test	L. Kopyscinski	Madhu Shah	madhu@sterlinganalytical.com

Sample Description
Analysis of Solid Samples

Samples Analyzed

Enclosed are Report No(s): 46697 to 46708

Reported on dry basis.

Thank you for your business

Madhu Shah, Laboratory Supervisor — Date

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.
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Visit our website: www.sterlinganalytical.com **Sample Analysis** Work Order 14-1393

Sample	Description	Source			Taken/Time	Received	
46697	14I0111-01	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		3,460	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46698	14I0111-02	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		4,340	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46699	14I0111-03	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		6,050	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46700	14I0111-04	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		5,360	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46701	14I0111-05	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		13,840	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46702	14I0111-06	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		2,470	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46703	14I0111-07	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		1,710	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46704	14I0111-08	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		1,510	mg/kg	100.00	SW 846 9060 Mod (1)	09/05/14	sjr

Sample	Description	Source			Taken/Time	Received	
46705	14I0111-09	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		5,870	mg/kg	100.00	SW 846 9060 Mod (1)	09/08/14	sjr

(1) MA & CT do not certify this parameter

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Sample Analysis

Work Order 14-1393

Sample	Description	Source			Taken/Time	Received	
46706	1410111-10	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		6,300	mg/kg	100.00	SW 846 9060 Mod (1)	09/08/14	sjr

Sample	Description	Source			Taken/Time	Received	
46707	1410111-11	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		5,820	mg/kg	100.00	SW 846 9060 Mod (1)	09/08/14	sjr

Sample	Description	Source			Taken/Time	Received	
46708	1410111-12	Con-test			9/3/14	9/4/14	
Parameter		**Results**		**MDL**	**Method**	**Analyzed/Time**	**Tech**
Total Organic Carbon		5,100	mg/kg	100.00	SW 846 9060 Mod (1)	09/08/14	sjr

(1) MA & CT do not certify this parameter

Sterling Analytical, Inc.

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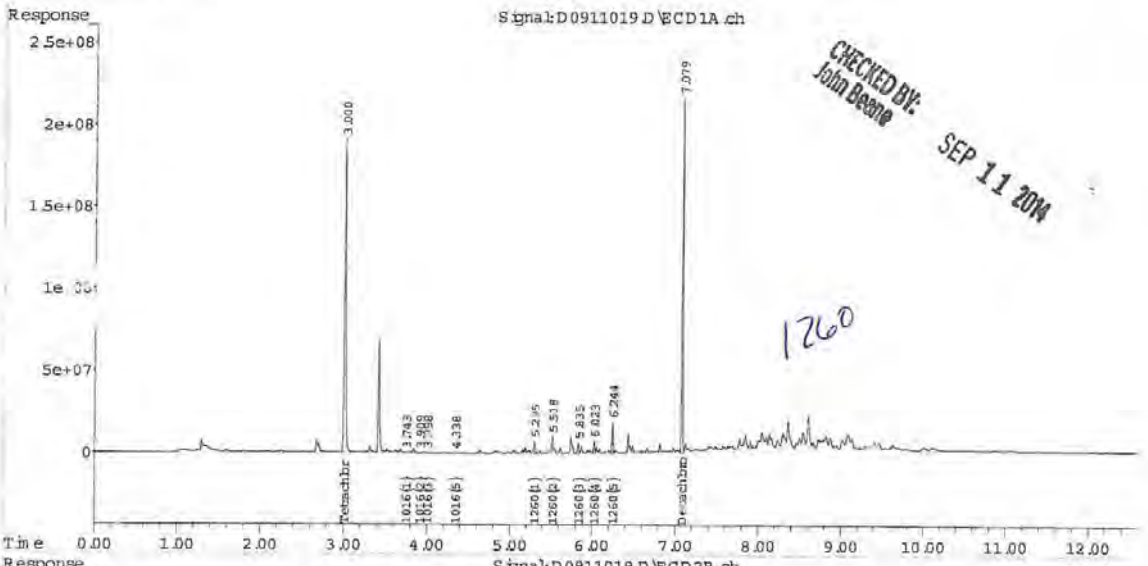
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\091114\
Data File : D0911019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Sep 2014 12:45 pm
Operator : JMB
Sample : 14I0111-05RE1@5X TBA Inst : ECD 4
Misc :
ALS Vial : 19 Sample Multiplier: 1

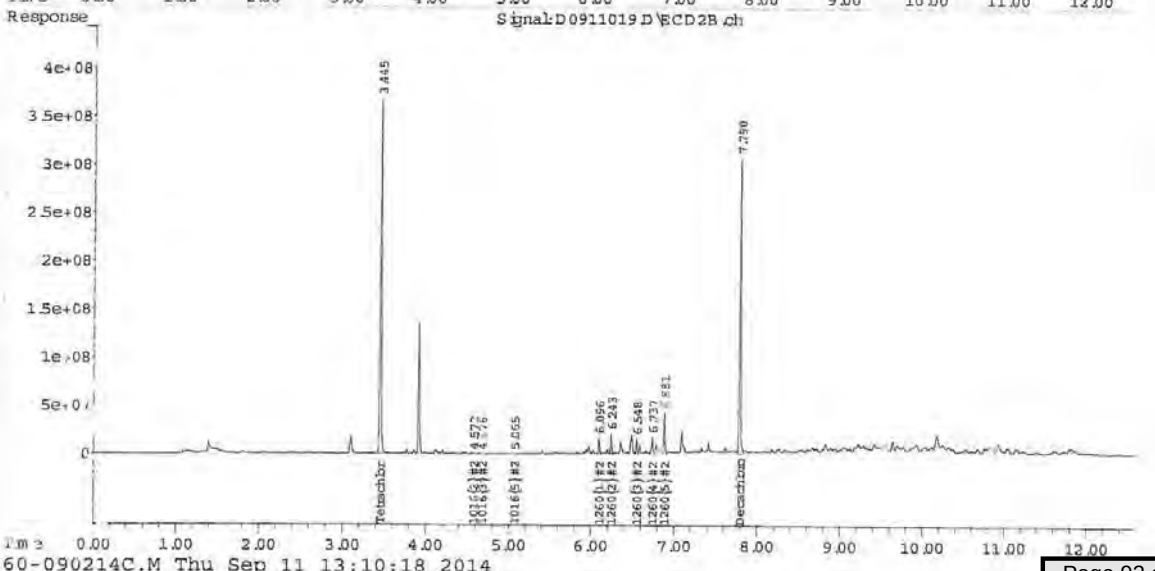
Integration File signal 1: FRONT-1260.E
Integration File signal 2: 1260-BACK.E
Quant Time: Sep 11 12:59:05 2014
Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-090214C.M
DataAcq Meth:PCBLONG.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 16:07:47 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



CHECKED BY: John Beane SEP 11 2014

1260



4-1260-090214C.M Thu Sep 11 13:10:18 2014

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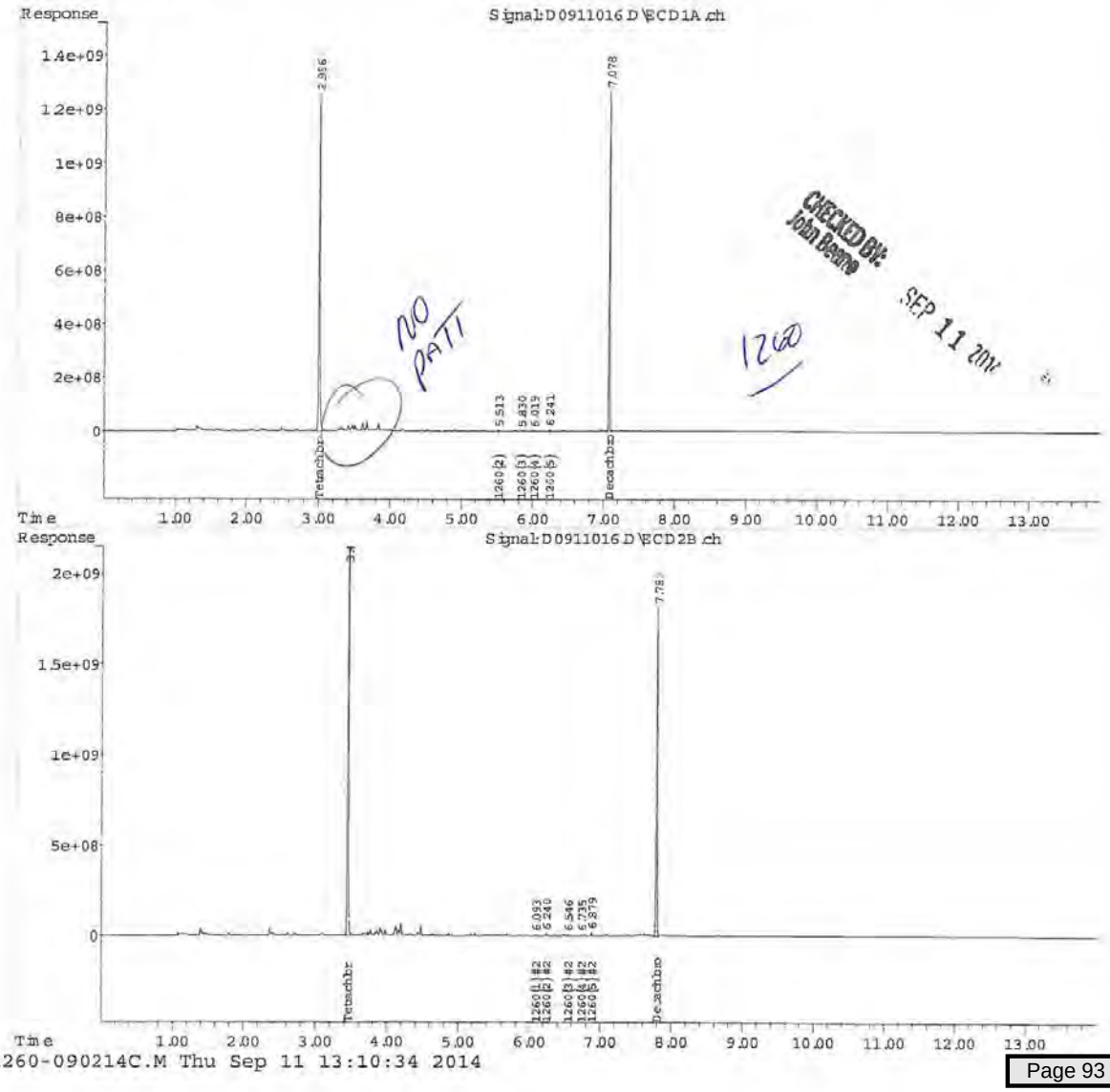
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\091114\
Data File : D0911016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Sep 2014 11:52 am
Operator : JMB
Sample : 14I0111-06RE1@TBA Inst : ECD 4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
Integration File signal 2: 1260-BACK.E
Quant Time: Sep 11 12:45:33 2014
Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-090214C.M
DataAcq Meth:PCBLONG.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 16:07:47 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



CHECKED BY: John Beane SEP 11 2014

NO PATT

1260

4-1260-090214C.M Thu Sep 11 13:10:34 2014

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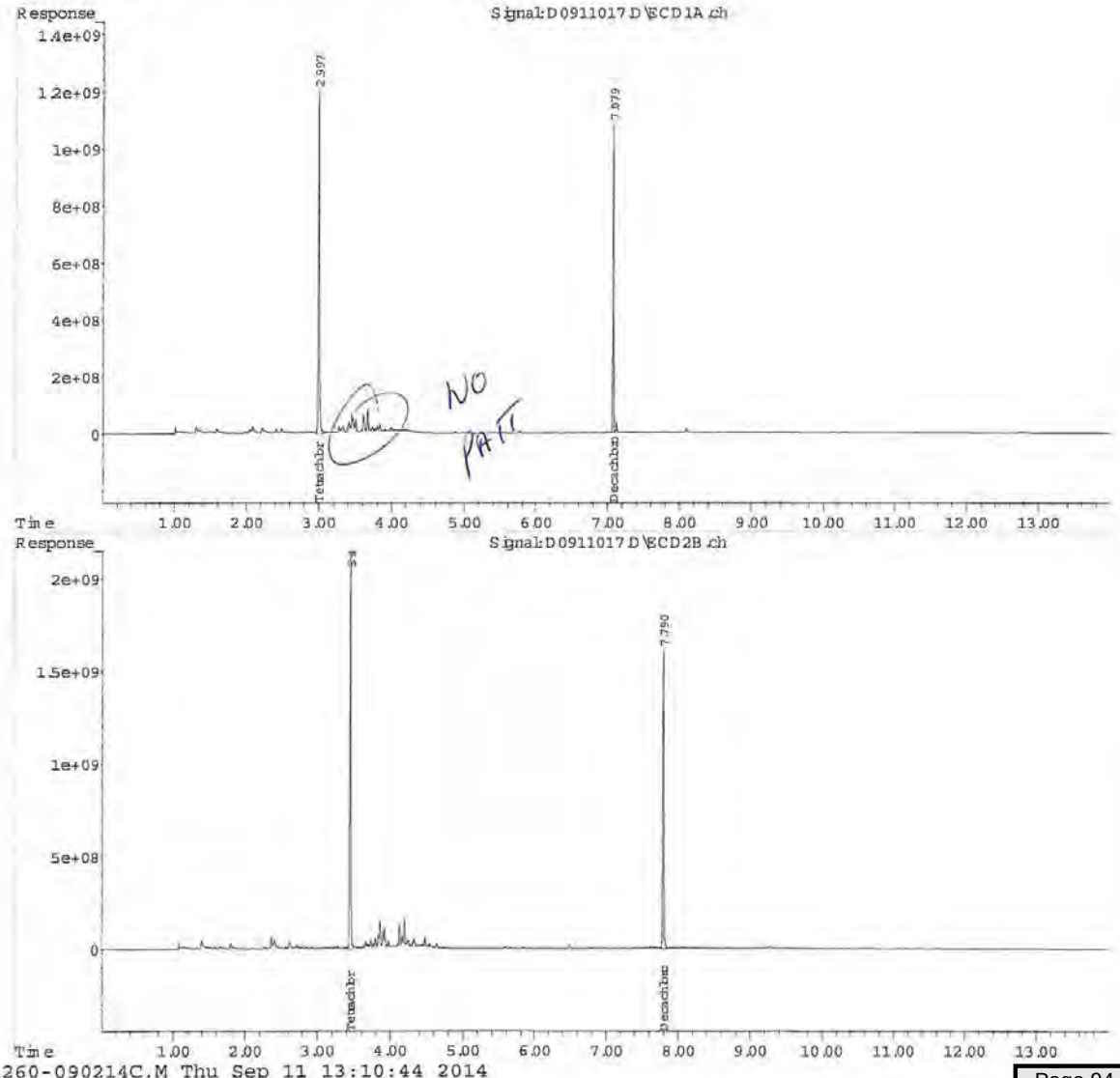
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\091114\
Data File : D0911017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Sep 2014 12:09 pm
Operator : JMB
Sample : 14I0111-10RE1@TBA Inst : ECD 4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
Integration File signal 2: 1260-BACK.E
Quant Time: Sep 11 12:51:40 2014
Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-090214C.M
DataAcq Meth:PCBLONG.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 16:07:47 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



4-1260-090214C.M Thu Sep 11 13:10:44 2014

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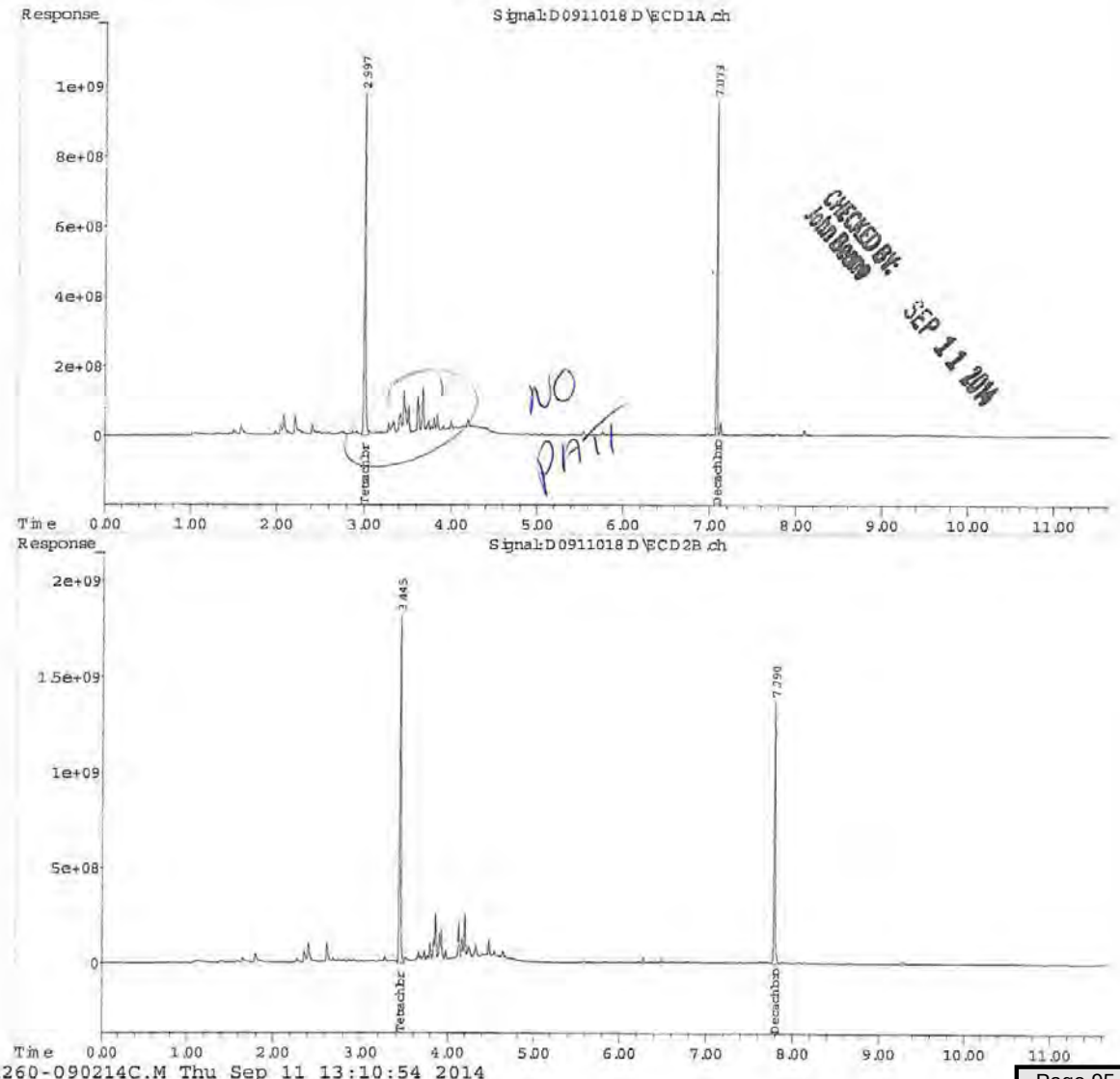
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\091114\
Data File : D0911018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Sep 2014 12:27 pm
Operator : JMB
Sample : 14I0111-11RE1@TBA Inst : ECD 4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: FRONT-1260.E
Integration File signal 2: 1260-BACK.E
Quant Time: Sep 11 12:53:34 2014
Quant Method : C:\msdchem\1\METHODS\pcb methods\4-1260-090214C.M
DataAcq Meth:PCBLONG.M
Quant Title : 1260/1016 09/02/14 07/29/14
QLast Update : Tue Sep 02 16:07:47 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

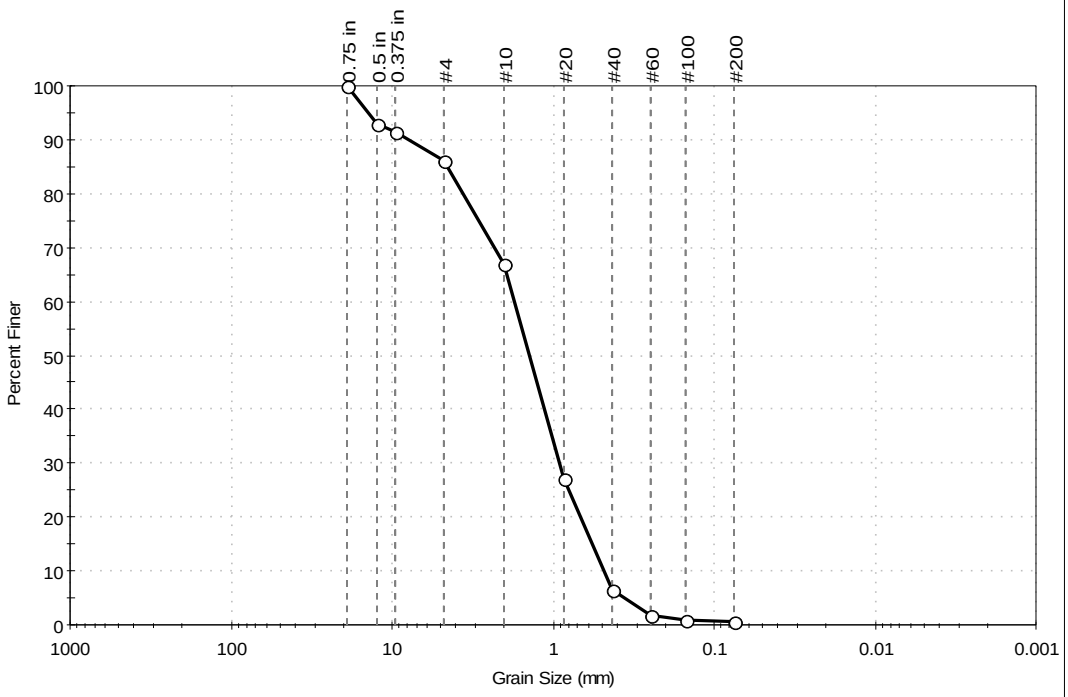


4-1260-090214C.M Thu Sep 11 13:10:54 2014

Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-01	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307733		
Test Comment:	---				
Sample Description:	Wet, brown sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	14.0	85.5	0.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	93		
0.375 in	9.50	91		
#4	4.75	86		
#10	2.00	67		
#20	0.85	27		
#40	0.42	7		
#60	0.25	2		
#100	0.15	1		
#200	0.075	0.5		

Coefficients

D_{85} = 4.5310 mm D_{30} = 0.9020 mm
D_{60} = 1.7257 mm D_{15} = 0.5635 mm
D_{50} = 1.3901 mm D_{10} = 0.4765 mm
C_u = 3.622 C_c = 0.989

Classification

ASTM: Poorly graded sand (SP)

AASHTO: Stone Fragments, Gravel and Sand (A-1-b (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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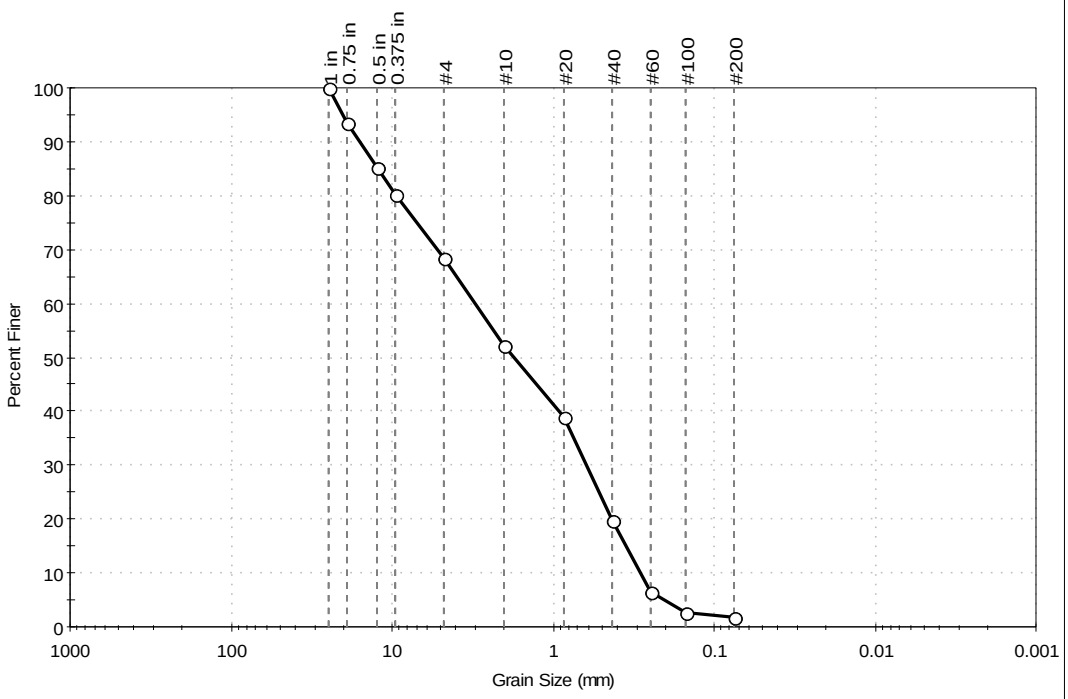
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-02	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307734		
Test Comment:	---				
Sample Description:	Moist, brown sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	31.6	66.8	1.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	94		
0.5 in	12.50	85		
0.375 in	9.50	80		
#4	4.75	68		
#10	2.00	52		
#20	0.85	39		
#40	0.42	20		
#60	0.25	6		
#100	0.15	3		
#200	0.075	1.6		

Coefficients

D_{85} = 12.2886 mm D_{30} = 0.6149 mm
D_{60} = 3.0386 mm D_{15} = 0.3523 mm
D_{50} = 1.7433 mm D_{10} = 0.2884 mm
C_u = 10.536 C_c = 0.431

Classification

ASTM: Poorly graded sand with gravel (SP)

AASHTO: Stone Fragments, Gravel and Sand (A-1-b (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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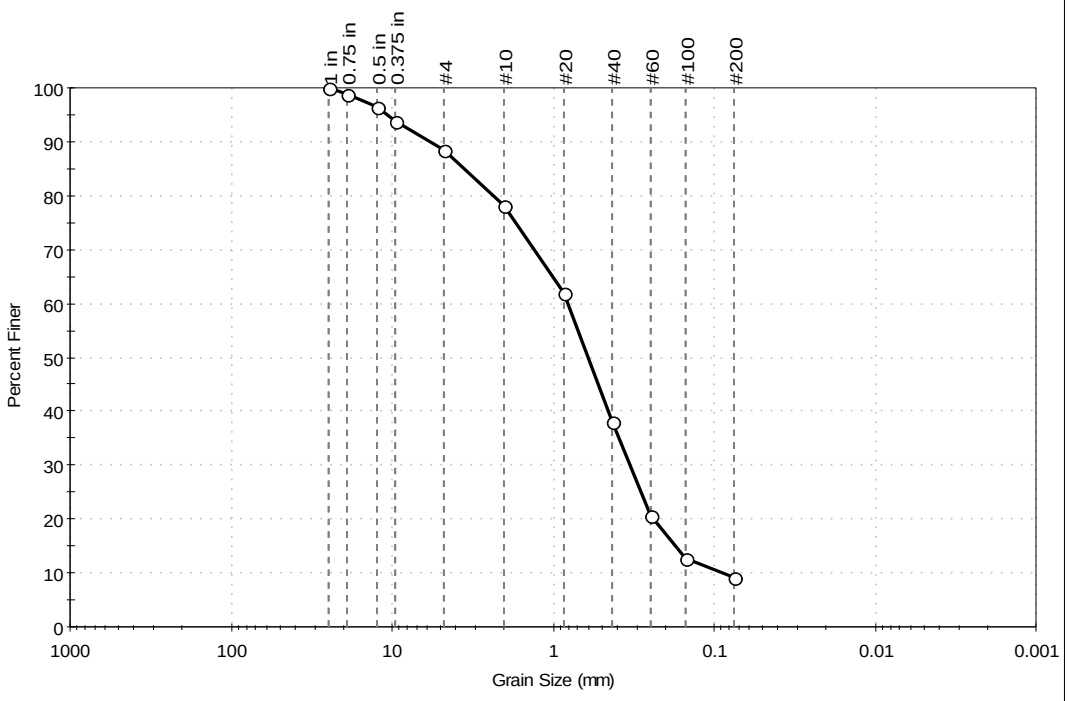
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-03	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307735		
Test Comment:	---				
Sample Description:	Wet, brown sand with silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	11.6	79.3	9.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	99		
0.5 in	12.50	97		
0.375 in	9.50	94		
#4	4.75	88		
#10	2.00	78		
#20	0.85	62		
#40	0.42	38		
#60	0.25	21		
#100	0.15	13		
#200	0.075	9.1		

Coefficients

D_{85} = 3.5762 mm D_{30} = 0.3325 mm
D_{60} = 0.8007 mm D_{15} = 0.1746 mm
D_{50} = 0.5993 mm D_{10} = 0.0897 mm
C_u = 8.926 C_c = 1.539

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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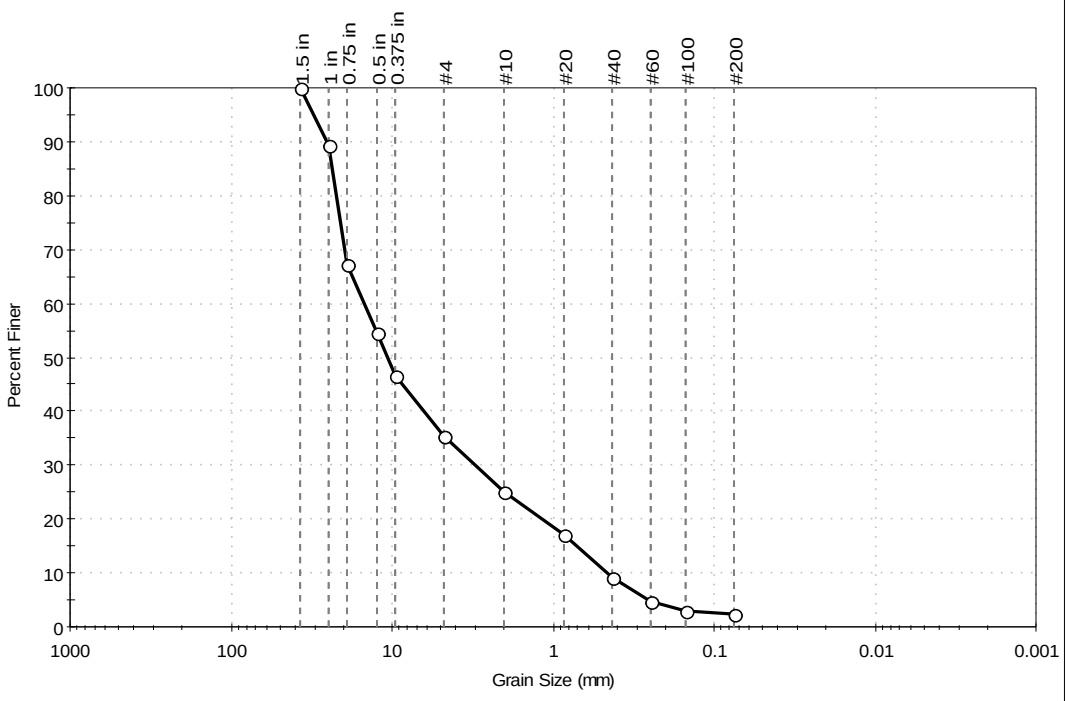
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-04	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307736		
Test Comment:	---				
Sample Description:	Moist, reddish brown gravel with sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	64.6	33.1	2.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	89		
0.75 in	19.00	67		
0.5 in	12.50	55		
0.375 in	9.50	47		
#4	4.75	35		
#10	2.00	25		
#20	0.85	17		
#40	0.42	9		
#60	0.25	5		
#100	0.15	3		
#200	0.075	2.3		

Coefficients

D_{85} = 23.6675 mm D_{30} = 3.0361 mm
D_{60} = 14.8983 mm D_{15} = 0.7069 mm
D_{50} = 10.6736 mm D_{10} = 0.4565 mm
C_u = 32.636 C_c = 1.355

Classification

ASTM: Well-graded gravel with sand (GW)

AASHTO: Stone Fragments, Gravel and Sand (A-1-a (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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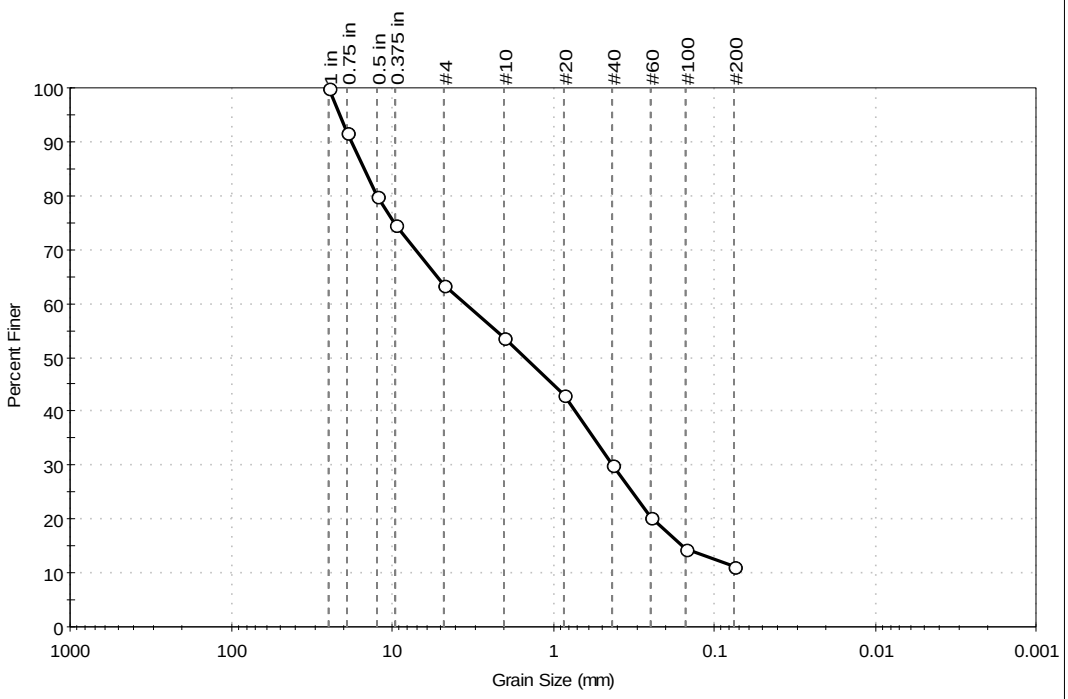
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-05	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307737		
Test Comment:	---				
Sample Description:	Wet, reddish brown sand with silt and gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	36.7	52.0	11.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	92		
0.5 in	12.50	80		
0.375 in	9.50	75		
#4	4.75	63		
#10	2.00	54		
#20	0.85	43		
#40	0.42	30		
#60	0.25	20		
#100	0.15	14		
#200	0.075	11		

Coefficients

D_{85} = 14.9966 mm D_{30} = 0.4226 mm
D_{60} = 3.5154 mm D_{15} = 0.1569 mm
D_{50} = 1.4720 mm D_{10} = 0.0571 mm
C_u = 61.566 C_c = 0.890

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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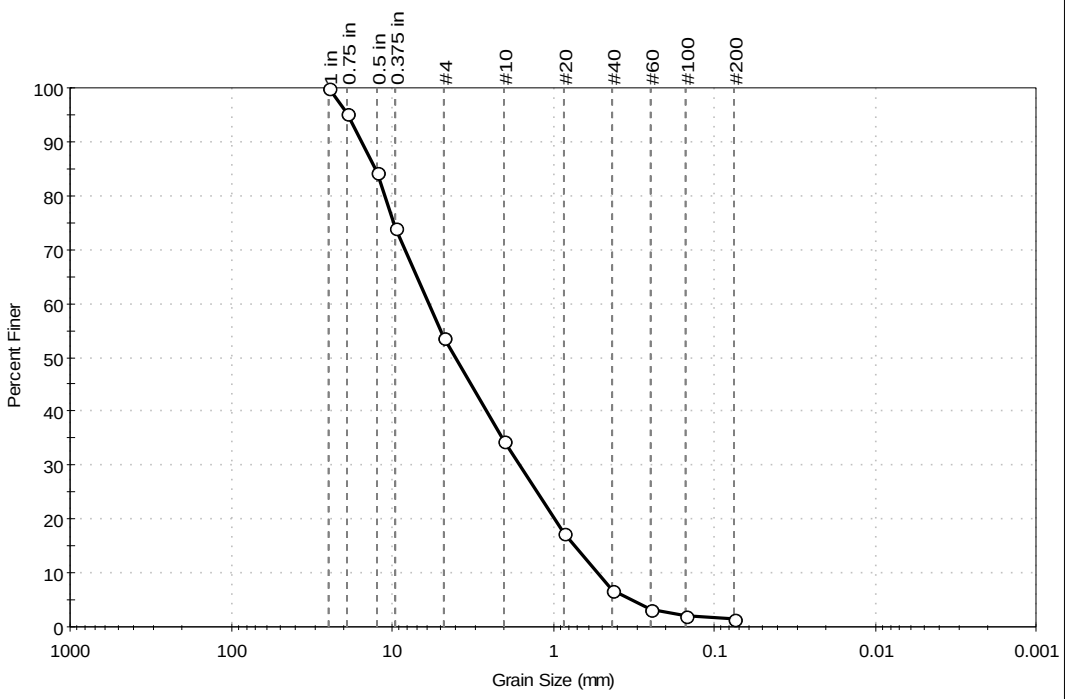
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-06	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307738		
Test Comment:	---				
Sample Description:	Wet, brown sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	46.5	52.0	1.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	95		
0.5 in	12.50	84		
0.375 in	9.50	74		
#4	4.75	54		
#10	2.00	35		
#20	0.85	17		
#40	0.42	7		
#60	0.25	3		
#100	0.15	2		
#200	0.075	1.5		

Coefficients

D_{85} = 12.8079 mm D_{30} = 1.5917 mm
D_{60} = 5.9027 mm D_{15} = 0.7311 mm
D_{50} = 4.0397 mm D_{10} = 0.5269 mm
C_u = 11.203 C_c = 0.815

Classification

ASTM: Poorly graded sand with gravel (SP)

AASHTO: Stone Fragments, Gravel and Sand (A-1-a (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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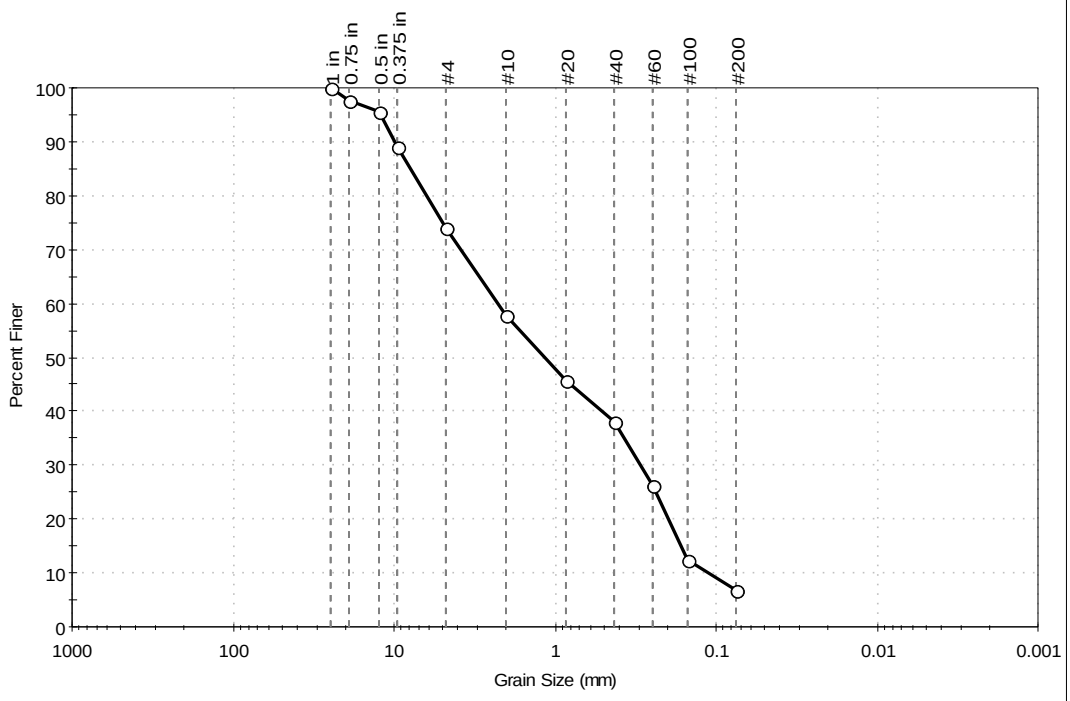
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-07	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307739		
Test Comment:	---				
Sample Description:	Wet, reddish brown sand with silt and gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	25.9	67.2	6.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	98		
0.5 in	12.50	96		
0.375 in	9.50	89		
#4	4.75	74		
#10	2.00	58		
#20	0.85	46		
#40	0.42	38		
#60	0.25	26		
#100	0.15	12		
#200	0.075	6.9		

Coefficients

D_{85} = 7.8549 mm D_{30} = 0.2954 mm
D_{60} = 2.2556 mm D_{15} = 0.1649 mm
D_{50} = 1.1607 mm D_{10} = 0.1107 mm
C_u = 20.376 C_c = 0.349

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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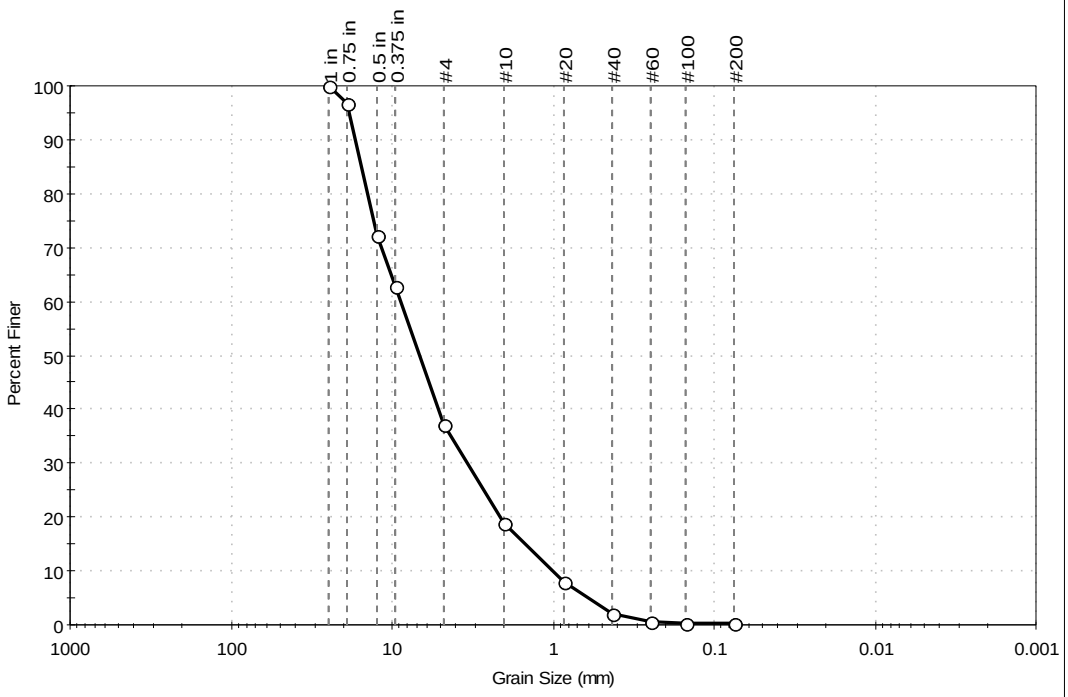
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-08	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307740		
Test Comment:	---				
Sample Description:	Moist, brown gravel with sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	62.8	36.9	0.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	97		
0.5 in	12.50	72		
0.375 in	9.50	63		
#4	4.75	37		
#10	2.00	19		
#20	0.85	8		
#40	0.42	2		
#60	0.25	1		
#100	0.15	0		
#200	0.075	0.3		

Coefficients

D_{85} = 15.5610 mm D_{30} = 3.3921 mm
D_{60} = 8.7704 mm D_{15} = 1.4907 mm
D_{50} = 6.7047 mm D_{10} = 1.0079 mm
C_u = 8.702 C_c = 1.302

Classification

ASTM Well-graded gravel with sand (GW)

AASHTO Stone Fragments, Gravel and Sand (A-1-a (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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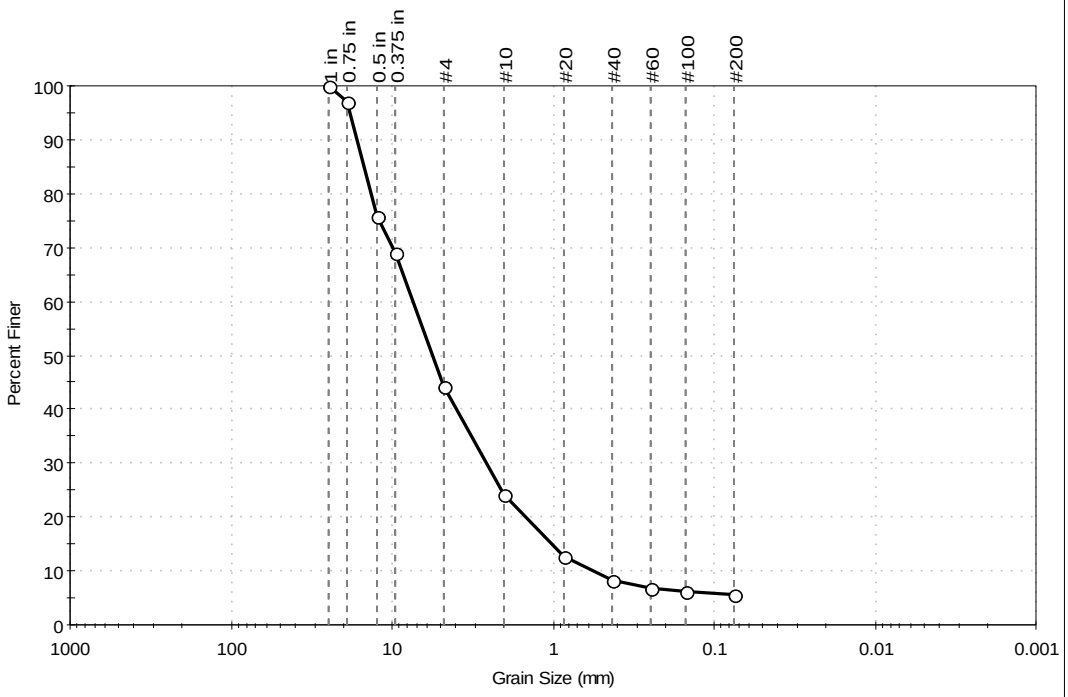
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-09	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307741		
Test Comment:	---				
Sample Description:	Moist, reddish brown gravel with silt and sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	55.7	38.8	5.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	97		
0.5 in	12.50	76		
0.375 in	9.50	69		
#4	4.75	44		
#10	2.00	24		
#20	0.85	13		
#40	0.42	8		
#60	0.25	7		
#100	0.15	6		
#200	0.075	5.5		

Coefficients

D_{85} = 14.9745 mm D_{30} = 2.5608 mm
D_{60} = 7.3929 mm D_{15} = 1.0127 mm
D_{50} = 5.5751 mm D_{10} = 0.5581 mm
C_u = 13.247 C_c = 1.589

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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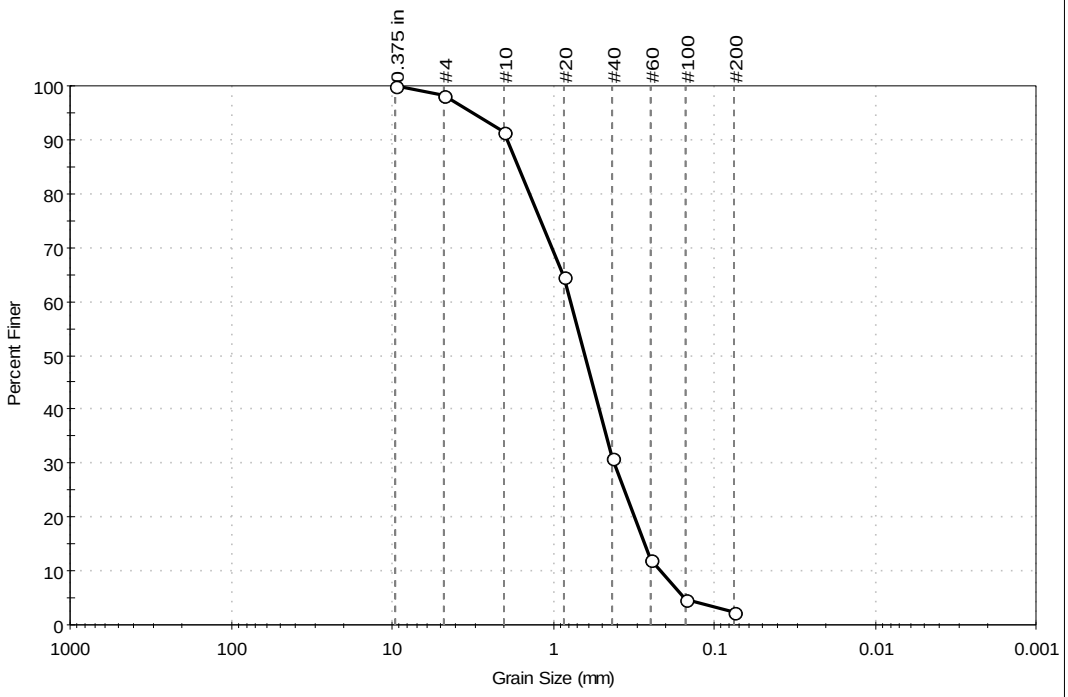
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-10	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307742		
Test Comment:	---				
Sample Description:	Moist, dark brown sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	1.9	95.8	2.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	98		
#10	2.00	91		
#20	0.85	65		
#40	0.42	31		
#60	0.25	12		
#100	0.15	5		
#200	0.075	2.3		

Coefficients

D_{85} =1.6258 mm	D_{30} =0.4147 mm
D_{60} =0.7720 mm	D_{15} =0.2708 mm
D_{50} =0.6290 mm	D_{10} =0.2157 mm
C_u =3.579	C_c =1.033

Classification

ASTM Poorly graded sand (SP)

AASHTO Stone Fragments, Gravel and Sand (A-1-b (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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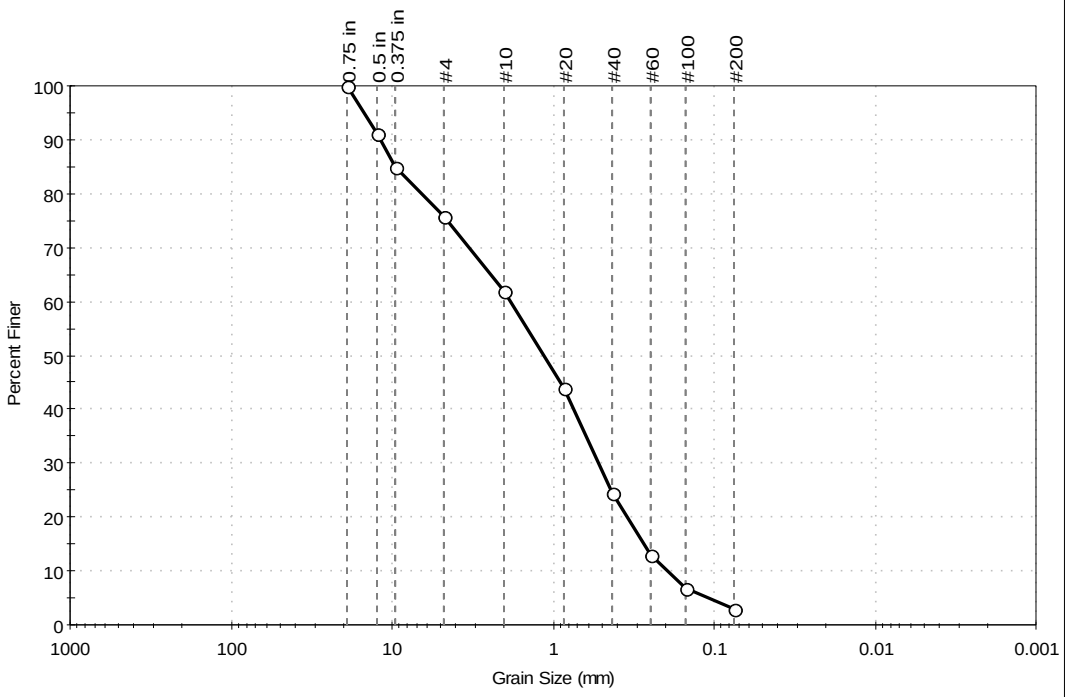
Table of Contents

Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-11	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307743		
Test Comment:	---				
Sample Description:	Moist, grayish brown sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	24.1	72.9	3.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	91		
0.375 in	9.50	85		
#4	4.75	76		
#10	2.00	62		
#20	0.85	44		
#40	0.42	24		
#60	0.25	13		
#100	0.15	7		
#200	0.075	3.0		

Coefficients

D_{85} = 9.5136 mm D_{30} = 0.5180 mm
D_{60} = 1.8127 mm D_{15} = 0.2757 mm
D_{50} = 1.1267 mm D_{10} = 0.1971 mm
C_u = 9.197 C_c = 0.751

Classification

ASTM: Poorly graded sand with gravel (SP)

AASHTO: Stone Fragments, Gravel and Sand (A-1-b (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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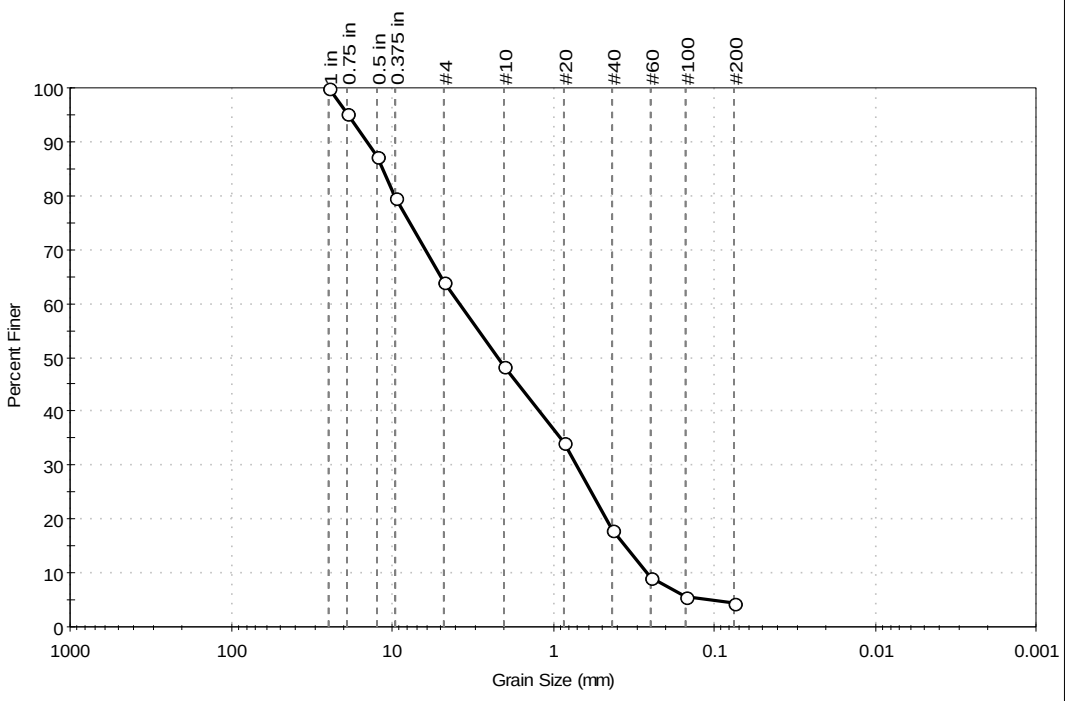
Client:	Con-Test Analytical Lab				
Project:	14I0111				
Location:	---			Project No:	GTX-302283
Boring ID:	---	Sample Type:	jar	Tested By:	jbr
Sample ID:	14I0111-12	Test Date:	09/10/14	Checked By:	jdt
Depth :	---	Test Id:	307744		
Test Comment:	---				
Sample Description:	Moist, brown sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	35.9	59.8	4.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	95		
0.5 in	12.50	87		
0.375 in	9.50	80		
#4	4.75	64		
#10	2.00	48		
#20	0.85	34		
#40	0.42	18		
#60	0.25	9		
#100	0.15	6		
#200	0.075	4.3		

Coefficients

D_{85} = 11.4972 mm D_{30} = 0.7085 mm
D_{60} = 3.7879 mm D_{15} = 0.3537 mm
D_{50} = 2.1850 mm D_{10} = 0.2631 mm
C_u = 14.397 C_c = 0.504

Classification

ASTM: Poorly graded sand with gravel (SP)

AASHTO: Stone Fragments, Gravel and Sand (A-1-a (1))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Northeast Utilities

Project Location: Berlin Settling Pond

Project Number: 14I0111

Laboratory Sample ID(s):

14I0111-01 thru 14I0111-12

Sample Date(s):

09/03/2014

List RCP Methods Used:

SW-846 8082A

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: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **09/11/14**

Name of Laboratory: **Con-Test Analytical Laboratory**

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

APPENDIX B

Laboratory Analytical Reports

Groundwater Reports

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 17, 2015

Chris Soroka
Northeast Utilities
P.O. Box 270
Hartford, CT 06141

Project Location: Berlin Settling Pond
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 15G0488

Enclosed are results of analyses for samples received by the laboratory on July 10, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
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

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Chris Soroka

REPORT DATE: 7/17/2015

PURCHASE ORDER NUMBER: 02274021 Release 5

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15G0488

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Pond

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	15G0488-01	Ground Water		SW-846 8082A	
MW-2	15G0488-02	Ground Water		SW-846 8082A	
MW-3	15G0488-03	Ground Water		SW-846 8082A	
MW-5	15G0488-04	Ground Water		SW-846 8082A	
MW-6	15G0488-05	Ground Water		SW-846 8082A	
DUP-MW	15G0488-06	Ground Water		SW-846 8082A	

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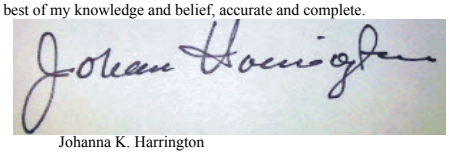
con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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.



Johanna K. Harrington
Manager, Laboratory Reporting

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-1 | Sampled: 7/9/2015 10:40

Sample ID: 15G0488-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.3	30-150		7/16/15 14:30
Decachlorobiphenyl [2]	68.2	30-150		7/16/15 14:30
Tetrachloro-m-xylene [1]	72.2	30-150		7/16/15 14:30
Tetrachloro-m-xylene [2]	73.9	30-150		7/16/15 14:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-2 | Sampled: 7/9/2015 09:30

Sample ID: 15G0488-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.1	30-150		7/16/15 14:43
Decachlorobiphenyl [2]	72.2	30-150		7/16/15 14:43
Tetrachloro-m-xylene [1]	69.4	30-150		7/16/15 14:43
Tetrachloro-m-xylene [2]	70.5	30-150		7/16/15 14:43

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-3 | Sampled: 7/9/2015 11:40

Sample ID: 15G0488-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.0	30-150		7/16/15 14:56
Decachlorobiphenyl [2]	42.0	30-150		7/16/15 14:56
Tetrachloro-m-xylene [1]	47.2	30-150		7/16/15 14:56
Tetrachloro-m-xylene [2]	48.6	30-150		7/16/15 14:56

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-5 | Sampled: 7/9/2015 08:40

Sample ID: 15G0488-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
Decachlorobiphenyl [1]	78.7	30-150				7/17/15 9:45
Decachlorobiphenyl [2]	78.1	30-150				7/17/15 9:45
Tetrachloro-m-xylene [1]	73.3	30-150				7/17/15 9:45
Tetrachloro-m-xylene [2]	74.5	30-150				7/17/15 9:45

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-6 | Sampled: 7/9/2015 12:50

Sample ID: 15G0488-05

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.4	30-150		7/17/15 9:57
Decachlorobiphenyl [2]	68.0	30-150		7/17/15 9:57
Tetrachloro-m-xylene [1]	65.3	30-150		7/17/15 9:57
Tetrachloro-m-xylene [2]	66.8	30-150		7/17/15 9:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: DUP-MW | Sampled: 7/9/2015 00:00

Sample ID: 15G0488-06

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.7	30-150		7/17/15 10:10
Decachlorobiphenyl [2]	69.5	30-150		7/17/15 10:10
Tetrachloro-m-xylene [1]	66.4	30-150		7/17/15 10:10
Tetrachloro-m-xylene [2]	67.4	30-150		7/17/15 10:10

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15G0488-01 [MW-1]	B126220	1000	10.0	07/14/15
15G0488-02 [MW-2]	B126220	1000	10.0	07/14/15
15G0488-03 [MW-3]	B126220	1000	10.0	07/14/15
15G0488-04 [MW-5]	B126220	1000	10.0	07/14/15
15G0488-05 [MW-6]	B126220	1000	10.0	07/14/15
15G0488-06 [DUP-MW]	B126220	1000	10.0	07/14/15

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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 B126220 - SW-846 3510C										
Blank (B126220-BLK1)				Prepared: 07/14/15 Analyzed: 07/16/15						
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	*1.09*		µg/L	2.00		54.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.08*		µg/L	2.00		54.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.20*		µg/L	2.00		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.22*		µg/L	2.00		61.1	30-150			
LCS (B126220-BS1)				Prepared: 07/14/15 Analyzed: 07/16/15						
Aroclor-1016	0.41	0.20	µg/L	0.500		82.5	40-140			
Aroclor-1016 [2C]	0.41	0.20	µg/L	0.500		82.0	40-140			
Aroclor-1260	0.39	0.20	µg/L	0.500		78.4	40-140			
Aroclor-1260 [2C]	0.39	0.20	µg/L	0.500		78.2	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		µg/L	2.00		51.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		µg/L	2.00		50.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.33*		µg/L	2.00		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.34*		µg/L	2.00		67.1	30-150			
LCS Dup (B126220-BSD1)				Prepared: 07/14/15 Analyzed: 07/16/15						
Aroclor-1016	0.48	0.20	µg/L	0.500		96.1	40-140	15.3	20	
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		95.2	40-140	14.8	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.8	40-140	15.9	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.9	40-140	15.1	20	
Surrogate: Decachlorobiphenyl	*1.33*		µg/L	2.00		66.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.31*		µg/L	2.00		65.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.38*		µg/L	2.00		68.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.40*		µg/L	2.00		69.9	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B126220-BS1 Date(s) Analyzed: 07/16/2015 07/16/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.41	
	2	0.00	0.00	0.00	0.41	0
Aroclor-1260	1	0.00	0.00	0.00	0.39	
	2	0.00	0.00	0.00	0.39	1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B126220-BSD1 Date(s) Analyzed: 07/16/2015 07/16/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.48	
	2	0.00	0.00	0.00	0.48	0
Aroclor-1260	1	0.00	0.00	0.00	0.46	
	2	0.00	0.00	0.00	0.45	2

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

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.

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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 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	09/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

Red (left w/ Mp ice sun)

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

15G0488

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston & Sampson - CT Office
Address:	273 Dividend Road, Rocky Hill, CT 06067
Phone:	(860) 513-1473
Project Name:	Berlin Settling Pond
Project Location:	Berlin, CT
Project Number:	2110618
Project Manager:	KEN GENDRON
Con-Test Bid:	Eversource Rates
Invoice Recipient:	KEN GENDRON
Sampled By:	Will SIATNAK

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Other: 5-Day (X)

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: gendronk@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (8082)	# of Containers
01	MW-1	7-9-15	1040		X	GW	U	✓	
02	MW-2		0930					✓	
03	MW-3		1140					✓	
04	MW-5		0840					✓	
05	MW-6		1250					✓	
06	DUP-MW		—					✓	

[2] Preservation Code
[3] Container Code

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/Solid
SL = Sludge
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)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

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: 7/10/15	
Received by: (signature)	Date/Time: 7/10/15 16:29	
Relinquished by: (signature)	Date/Time: 7/10/15 1700	
Received by: (signature)	Date/Time: 7/10/15 1900	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT CTDEEP RSRs (includes RES DEC, I/C DEC & GA PMC)
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Weston + Sampson **RECEIVED BY:** SDL **DATE:** 7/10/25

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included

2) **Does the chain agree with the samples?** (Yes) No
If not, explain:

3) **Are all the samples in good condition?** (Yes) No
If not, explain:

4) **How were the samples received:**
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.4

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
Who was notified _____ Date _____ Time _____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
Who was notified _____ Date _____ Time _____

7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____

9) **Do all samples have the proper Base pH:** Yes No (N/A) _____

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	12	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JDL **Date/Time:** 7/10/15 1900

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Northeast Utilities

Project Location: Berlin Settling Pond

Project Number: 15G0488

Laboratory Sample ID(s):

15G0488-01 thru 15G0488-06

Sample Date(s):

07/09/2015

List RCP Methods Used:

SW-846 8082A

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:** **Manager, Laboratory Reporting**

Printed Name: **Johanna K. Harrington** **Date:** **07/17/15**

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

Soil Reports

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 27, 2010

Dan Adanti
Northeast Utilities
P.O. Box 270
Hartford, CT 06141

Project Location: Berlin Settling Basin
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10G0570

Enclosed are results of analyses for samples received by the laboratory on July 19, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Dan Adanti

REPORT DATE: 7/27/2010

PURCHASE ORDER NUMBER: 02255163 REL 00002

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0570

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Basin

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TP-01	10G0570-01	Soil		CTDEP ETPH	
				SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 1311	
				SW-846 6010B	
				SW-846 7470A	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11471
				SW-846 8260B	
				SW-846 8270C	
				SW846 9014	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045D	
TP-03	10G0570-02	Soil		CTDEP ETPH	
				SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 1311	
				SW-846 6010B	
				SW-846 7470A	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11471
				SW-846 8260B	
				SW-846 8270C	
				SW846 9014	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045D	

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Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Dan Adanti

REPORT DATE: 7/27/2010

PURCHASE ORDER NUMBER: 02255163 REL 00002

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0570

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Basin

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TP-04	10G0570-03	Soil		CTDEP ETPH	
				SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 1311	
				SW-846 6010B	
				SW-846 7470A	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11471
				SW-846 8260B	
				SW-846 8270C	
				SW846 9014	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045D	
TP-05	10G0570-04	Soil		CTDEP ETPH	
				SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 1311	
				SW-846 6010B	
				SW-846 7470A	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11471
				SW-846 8260B	
				SW-846 8270C	
				SW846 9014	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045D	

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Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Dan Adanti

REPORT DATE: 7/27/2010

PURCHASE ORDER NUMBER: 02255163 REL 00002

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0570

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Basin

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TP-07	10G0570-05	Soil		CTDEP ETPH	
				SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 1311	
				SW-846 6010B	
				SW-846 7470A	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11471
				SW-846 8260B	
				SW-846 8270C	
				SW846 9014	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045D	
Dup-1	10G0570-06	Soil		CTDEP ETPH	
				SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 1311	
				SW-846 6010B	
				SW-846 7470A	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11471
				SW-846 8260B	
				SW-846 8270C	
				SW846 9014	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045D	

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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.

For method 6010, only RCRA 8 metals were requested and reported.

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SW-846 8081A

Qualifications:

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

10G0570-03[TP-04], 10G0570-04[TP-05]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4,4'-DDT, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin Aldehyde, Endrin Ketone, Methoxychlor

10G0570-01[TP-01], 10G0570-02[TP-03], 10G0570-03[TP-04], 10G0570-04[TP-05], 10G0570-05[TP-07], 10G0570-06[Dup-1]

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

4,4'-DDD [2C]

10G0570-01[TP-01], 10G0570-02[TP-03], 10G0570-05[TP-07], 10G0570-06[Dup-1]

SW-846 8082

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

10G0570-03[TP-04]

SW-846 8260B

Qualifications:

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Bromomethane

10G0570-01[TP-01], B016552-MS1

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Analyte & Samples(s) Qualified:

2-Hexanone (MBK), Acetone

B016552-MS1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

Analyte & Samples(s) Qualified:

2-Butanone (MEK), Acetone, Tetrahydrofuran

10G0570-01[TP-01], 10G0570-02[TP-03], 10G0570-03[TP-04], 10G0570-04[TP-05], 10G0570-05[TP-07], 10G0570-06[Dup-1], B016552-BLK1, B016552-BS1, B016552-MS1

SW-846 8270C

Qualifications:

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One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

Terphenyl-d14

10G0570-03[TP-04]

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

10G0570-01[TP-01], 10G0570-02[TP-03], 10G0570-03[TP-04], 10G0570-04[TP-05], 10G0570-05[TP-07], 10G0570-06[Dup-1], B016538-BLK1, B016538-BS1, B016538-BSD1

SW-846 8260B

The LCS recoveries for required CT reasonable confidence protocol (RCP) 8260 compounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between 40-160% are used and/or unless otherwise listed in this narrative: Difficult analytes: MIBK, MEK, Tert-butyl Alcohol, Acetone, 1,4-Dioxane, Vinyl Chloride, Chloromethane, Dichlorodifluoromethane, 2-Hexanone, Naphthalene, Bromomethane, Methylene Chloride, and tert-butylbenzene.

SW-846 8270C

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, 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.



Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.044	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Acrylonitrile	ND	0.0026	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Benzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Bromobenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Bromodichloromethane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Bromoform	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Bromomethane	ND	0.0044	mg/Kg dry	1	MS-07	SW-846 8260B	7/21/10	7/21/10 10:01	MFF
2-Butanone (MEK)	ND	0.017	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:01	MFF
n-Butylbenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
sec-Butylbenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
tert-Butylbenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Carbon Disulfide	ND	0.0026	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Carbon Tetrachloride	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Chlorobenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Chlorodibromomethane	ND	0.00044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Chloroethane	ND	0.0087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Chloroform	ND	0.0017	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Chloromethane	ND	0.0044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
2-Chlorotoluene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
4-Chlorotoluene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2-Dibromoethane (EDB)	ND	0.00044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Dibromomethane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2-Dichlorobenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,3-Dichlorobenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,4-Dichlorobenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
trans-1,4-Dichloro-2-butene	ND	0.0017	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1-Dichloroethane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2-Dichloroethane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
cis-1,2-Dichloroethylene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
trans-1,2-Dichloroethylene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2-Dichloropropane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,3-Dichloropropane	ND	0.00044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
2,2-Dichloropropane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1-Dichloropropene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
cis-1,3-Dichloropropene	ND	0.00044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
trans-1,3-Dichloropropene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Ethylbenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Hexachlorobutadiene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
2-Hexanone (MBK)	ND	0.0087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Isopropylbenzene (Cumene)	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0017	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Methylene Chloride	ND	0.0087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Naphthalene	ND	0.0017	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
n-Propylbenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Styrene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.00044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Tetrachloroethylene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Tetrahydrofuran	ND	0.0044	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Toluene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2,3-Trichlorobenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2,4-Trichlorobenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1,1-Trichloroethane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1,2-Trichloroethane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Trichloroethylene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2,3-Trichloropropane	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,2,4-Trimethylbenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
1,3,5-Trimethylbenzene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
Vinyl Chloride	ND	0.0044	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
m+p Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF
o-Xylene	ND	0.00087	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	88.2	70-130		7/21/10 10:01
Toluene-d8	97.6	70-130		7/21/10 10:01
4-Bromofluorobenzene	94.3	70-130		7/21/10 10:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Butylbenzylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
4-Chloroaniline	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
4-Chloro-3-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Dimethylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Di-n-octylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Hexachlorocyclopentadiene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1	V-16	SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:27	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	63.4	30-130		7/22/10 12:27
Phenol-d6	59.4	30-130		7/22/10 12:27
Nitrobenzene-d5	53.5	30-130		7/22/10 12:27
2-Fluorobiphenyl	53.4	30-130		7/22/10 12:27
2,4,6-Tribromophenol	59.9	30-130		7/22/10 12:27
Terphenyl-d14	60.8	30-130		7/22/10 12:27

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.024	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Aldrin [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
alpha-BHC [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
beta-BHC [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
delta-BHC [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
gamma-BHC (Lindane) [2]	ND	0.0037	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Chlordane [2]	ND	0.024	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
4,4'-DDD [1]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
4,4'-DDE [2]	ND	0.0049	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
4,4'-DDT [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Dieldrin [2]	ND	0.0024	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Endosulfan I [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Endosulfan II [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Endosulfan sulfate [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Endrin [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Endrin aldehyde [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Endrin ketone [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Heptachlor [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Heptachlor epoxide [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Hexachlorobenzene [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Methoxychlor [2]	ND	0.061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB
Toxaphene [2]	ND	0.12	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:06	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	70.7	30-150		7/22/10 19:06
Decachlorobiphenyl [2]	86.8	30-150		7/22/10 19:06
Tetrachloro-m-xylene [1]	83.3	30-150		7/22/10 19:06
Tetrachloro-m-xylene [2]	78.3	30-150		7/22/10 19:06

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.7	30-150		7/22/10 19:28
Decachlorobiphenyl [2]	82.4	30-150		7/22/10 19:28
Tetrachloro-m-xylene [1]	84.6	30-150		7/22/10 19:28
Tetrachloro-m-xylene [2]	85.9	30-150		7/22/10 19:28

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	150	25	mg/Kg dry	1		CTDEP ETPH	7/21/10	7/22/10 21:12	CJM
TPH as Diesel	53	52	mg/Kg dry	5		SW-846 8100 Modified	7/26/10	7/26/10 11:22	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	127	50-150				7/22/10 21:12	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.2	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:33	OP
Barium	13	3.2	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:32	OP
Cadmium	ND	0.32	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:33	OP
Chromium	6.9	0.64	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:33	OP
Lead	34	0.96	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:33	OP
Mercury	ND	0.021	mg/Kg dry	1		SW-846 7471A	7/20/10	7/22/10 12:17	MPF
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:33	OP
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:32	OP

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.57	0.32	mg/Kg dry	1		SW846 9014	7/26/10	7/26/10 12:30	VAK
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/22/10	7/22/10 18:40	AED
pH @24.3°C	7.5		pH Units	1		SW-846 9045D	7/21/10	7/21/10 12:45	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/23/10	7/23/10 18:00	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/23/10	7/23/10 19:00	SBP
Specific conductance	6.8	2.0	µmhos/cm	1		SM18-20 2510B	7/21/10	7/21/10 15:50	SBP
% Solids	80.1		% Wt	1		SM 2540G	7/20/10	7/21/10 9:05	NH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:05	KSH
Barium	0.052	0.050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:04	KSH
Cadmium	ND	0.0040	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:05	KSH
Chromium	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:05	KSH
Lead	0.089	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:05	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/22/10	7/22/10 12:48	MPF
Selenium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/23/10 11:07	KSH
Silver	ND	0.0050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:04	KSH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10G0570-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4-DB	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-TP (Silvex)	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-T	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dalapon	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dicamba	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dichloroprop	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dinoseb	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	64	40-140				7/22/10 0:00	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570
Date Received: 7/19/2010
Field Sample #: TP-03 | Sampled: 7/19/2010 09:15
Sample ID: 10G0570-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.047	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Acrylonitrile	ND	0.0028	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Benzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Bromobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Bromodichloromethane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Bromoform	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Bromomethane	ND	0.0047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
2-Butanone (MEK)	ND	0.019	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:28	MFF
n-Butylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
sec-Butylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
tert-Butylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Carbon Disulfide	ND	0.0028	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Carbon Tetrachloride	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Chlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Chlorodibromomethane	ND	0.00047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Chloroethane	ND	0.0094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Chloroform	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Chloromethane	ND	0.0047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
2-Chlorotoluene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
4-Chlorotoluene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2-Dibromoethane (EDB)	ND	0.00047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Dibromomethane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2-Dichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,3-Dichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,4-Dichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
trans-1,4-Dichloro-2-butene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1-Dichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2-Dichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
cis-1,2-Dichloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
trans-1,2-Dichloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2-Dichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,3-Dichloropropane	ND	0.00047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
2,2-Dichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
cis-1,3-Dichloropropene	ND	0.00047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
trans-1,3-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Ethylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Hexachlorobutadiene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
2-Hexanone (MBK)	ND	0.0094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Isopropylbenzene (Cumene)	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Methylene Chloride	ND	0.0094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Naphthalene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
n-Propylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Styrene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.00047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Tetrachloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Tetrahydrofuran	ND	0.0047	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Toluene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2,3-Trichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2,4-Trichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1,1-Trichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1,2-Trichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Trichloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2,3-Trichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,2,4-Trimethylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
1,3,5-Trimethylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
Vinyl Chloride	ND	0.0047	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
m+p Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF
o-Xylene	ND	0.00094	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	116	70-130		7/21/10 10:28
Toluene-d8	94.8	70-130		7/21/10 10:28
4-Bromofluorobenzene	97.8	70-130		7/21/10 10:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Butylbenzylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
4-Chloroaniline	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
4-Chloro-3-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Dimethylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Di-n-octylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Hexachlorocyclopentadiene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1	V-16	SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 12:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	65.5	30-130		7/22/10 12:55
Phenol-d6	66.2	30-130		7/22/10 12:55
Nitrobenzene-d5	57.4	30-130		7/22/10 12:55
2-Fluorobiphenyl	55.2	30-130		7/22/10 12:55
2,4,6-Tribromophenol	60.5	30-130		7/22/10 12:55
Terphenyl-d14	50.1	30-130		7/22/10 12:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.025	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Aldrin [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
alpha-BHC [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
beta-BHC [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
delta-BHC [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
gamma-BHC (Lindane) [2]	ND	0.0038	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Chlordane [2]	ND	0.025	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
4,4'-DDD [2]	ND	0.010	mg/Kg dry	1	V-06	SW-846 8081A	7/21/10	7/22/10 19:20	JB
4,4'-DDE [2]	ND	0.0050	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
4,4'-DDT [2]	ND	0.010	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Dieldrin [2]	ND	0.0025	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Endosulfan I [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Endosulfan II [2]	ND	0.010	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Endosulfan sulfate [2]	ND	0.010	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Endrin [2]	ND	0.010	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Endrin aldehyde [2]	ND	0.010	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Endrin ketone [2]	ND	0.010	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Heptachlor [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Heptachlor epoxide [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Hexachlorobenzene [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Methoxychlor [2]	ND	0.063	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB
Toxaphene [2]	ND	0.13	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 19:20	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	70.7	30-150		7/22/10 19:20
Decachlorobiphenyl [2]	88.1	30-150		7/22/10 19:20
Tetrachloro-m-xylene [1]	85.3	30-150		7/22/10 19:20
Tetrachloro-m-xylene [2]	78.6	30-150		7/22/10 19:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 19:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	79.6	30-150		7/22/10 19:43
Decachlorobiphenyl [2]	80.2	30-150		7/22/10 19:43
Tetrachloro-m-xylene [1]	82.4	30-150		7/22/10 19:43
Tetrachloro-m-xylene [2]	83.2	30-150		7/22/10 19:43

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	130	130	mg/Kg dry	5		CTDEP ETPH	7/21/10	7/22/10 18:41	CJM
TPH as Diesel	230	100	mg/Kg dry	5		SW-846 8100 Modified	7/21/10	7/22/10 19:56	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	50.6	50-150				7/22/10 18:41	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.2	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:37	OP
Barium	23	3.2	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:37	OP
Cadmium	ND	0.32	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:37	OP
Chromium	13	0.65	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:37	OP
Lead	100	0.97	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:37	OP
Mercury	0.025	0.018	mg/Kg dry	1		SW-846 7471A	7/20/10	7/22/10 12:18	MPF
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:37	OP
Silver	ND	0.65	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:37	OP

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.1	0.38	mg/Kg dry	1		SW846 9014	7/26/10	7/26/10 12:30	VAK
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/22/10	7/22/10 18:40	AED
pH @24.6°C	7.2		pH Units	1		SW-846 9045D	7/21/10	7/21/10 12:45	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/23/10	7/23/10 18:00	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/23/10	7/23/10 19:00	SBP
Specific conductance	3.3	2.0	µmhos/cm	1		SM18-20 2510B	7/21/10	7/21/10 15:50	SBP
% Solids	79.8		% Wt	1		SM 2540G	7/20/10	7/21/10 9:05	NH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:10	KSH
Barium	0.057	0.050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:10	KSH
Cadmium	ND	0.0040	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:10	KSH
Chromium	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:10	KSH
Lead	0.062	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:10	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/22/10	7/22/10 12:50	MPF
Selenium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/23/10 11:12	KSH
Silver	ND	0.0050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:10	KSH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4-DB	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-TP (Silvex)	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-T	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dalapon	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dicamba	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dichloroprop	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dinoseb	ND	105	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	48	40-140				7/22/10 0:00	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570
Date Received: 7/19/2010
Field Sample #: TP-04 | Sampled: 7/19/2010 09:45
Sample ID: 10G0570-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.060	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Acrylonitrile	ND	0.0036	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Bromoform	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Bromomethane	ND	0.0060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
2-Butanone (MEK)	ND	0.024	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:55	MFF
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Carbon Disulfide	ND	0.0036	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Chlorodibromomethane	ND	0.00060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Chloroform	ND	0.0024	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Chloromethane	ND	0.0060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2-Dibromoethane (EDB)	ND	0.00060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Dibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
trans-1,4-Dichloro-2-butene	ND	0.0024	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,3-Dichloropropane	ND	0.00060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
2,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
cis-1,3-Dichloropropene	ND	0.00060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0024	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Naphthalene	ND	0.0024	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.00060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Tetrahydrofuran	ND	0.0060	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2,3-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2,4-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
Vinyl Chloride	ND	0.0060	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
m+p Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 10:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	102	70-130		7/21/10 10:55
Toluene-d8	96.7	70-130		7/21/10 10:55
4-Bromofluorobenzene	97.8	70-130		7/21/10 10:55

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Benzo(a)anthracene	0.21	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Benzo(a)pyrene	0.32	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Benzo(b)fluoranthene	0.56	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Butylbenzylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
4-Chloro-3-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Chrysene	0.33	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Dimethylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Di-n-octylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Fluoranthene	0.50	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Hexachlorocyclopentadiene	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Indeno(1,2,3-cd)pyrene	0.21	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Phenanthrene	0.25	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Pyrene	0.34	0.20	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:24	BGL

Surrogates	% Recovery		Recovery Limits	Flag		
2-Fluorophenol	58.1		30-130		7/22/10 13:24	
Phenol-d6	44.7		30-130		7/22/10 13:24	
Nitrobenzene-d5	37.5		30-130		7/22/10 13:24	
2-Fluorobiphenyl	48.5		30-130		7/22/10 13:24	
2,4,6-Tribromophenol	33.8		30-130		7/22/10 13:24	
Terphenyl-d14	**28.1**	*	30-130	S-07	7/22/10 13:24	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Sample Flags: DL-04

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.12	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Aldrin [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
alpha-BHC [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
beta-BHC [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
delta-BHC [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
gamma-BHC (Lindane) [2]	ND	0.018	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Chlordane [2]	ND	0.12	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
4,4'-DDD [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
4,4'-DDE [2]	ND	0.024	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
4,4'-DDT [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Dieldrin [2]	ND	0.012	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Endosulfan I [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Endosulfan II [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Endosulfan sulfate [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Endrin [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Endrin aldehyde [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Endrin ketone [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Heptachlor [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Heptachlor epoxide [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Hexachlorobenzene [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Methoxychlor [2]	ND	0.30	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB
Toxaphene [2]	ND	0.60	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:42	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.5	30-150		7/22/10 16:42
Decachlorobiphenyl [2]	89.6	30-150		7/22/10 16:42
Tetrachloro-m-xylene [1]	86.4	30-150		7/22/10 16:42
Tetrachloro-m-xylene [2]	80.0	30-150		7/22/10 16:42

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1260 [2]	5.8	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082	7/21/10	7/23/10 7:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	7/23/10 7:11
Decachlorobiphenyl [2]	*	30-150	S-01	7/23/10 7:11
Tetrachloro-m-xylene [1]	*	30-150	S-01	7/23/10 7:11
Tetrachloro-m-xylene [2]	*	30-150	S-01	7/23/10 7:11

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Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	97	24	mg/Kg dry	1		CTDEP ETPH	7/21/10	7/23/10 13:11	CJM
TPH as Diesel	110	50	mg/Kg dry	5		SW-846 8100 Modified	7/21/10	7/22/10 20:15	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	62.4	50-150				7/23/10 13:11	

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Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.3	3.0	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:42	OP
Barium	54	3.0	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:41	OP
Cadmium	0.33	0.30	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:42	OP
Chromium	23	0.60	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:41	OP
Lead	61	0.91	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:42	OP
Mercury	0.065	0.022	mg/Kg dry	1		SW-846 7471A	7/20/10	7/22/10 12:20	MPF
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:42	OP
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:41	OP

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Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

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Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.6	0.54	mg/Kg dry	1		SW846 9014	7/26/10	7/26/10 12:30	VAK
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/22/10	7/22/10 18:40	AED
pH @24.5°C	7.6		pH Units	1		SW-846 9045D	7/21/10	7/21/10 12:45	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/23/10	7/23/10 18:00	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/23/10	7/23/10 19:00	SBP
Specific conductance	7.1	2.0	µmhos/cm	1		SM18-20 2510B	7/21/10	7/21/10 15:50	SBP
% Solids	82.8		% Wt	1		SM 2540G	7/20/10	7/21/10 9:05	NH

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Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:15	KSH
Barium	0.055	0.050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:15	KSH
Cadmium	ND	0.0040	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:15	KSH
Chromium	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:15	KSH
Lead	0.017	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:15	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/22/10	7/22/10 12:52	MPF
Selenium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/23/10 11:17	KSH
Silver	ND	0.0050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:15	KSH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-04 | Sampled: 7/19/2010 09:45

Sample ID: 10G0570-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4-DB	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-TP (Silvex)	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-T	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dalapon	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dicamba	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dichloroprop	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dinoseb	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	62	40-140					7/22/10 0:00

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.058	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Acrylonitrile	ND	0.0035	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Bromoform	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Bromomethane	ND	0.0058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
2-Butanone (MEK)	ND	0.023	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 12:18	MFF
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Carbon Disulfide	ND	0.0035	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Chlorodibromomethane	ND	0.00058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Chloroform	ND	0.0023	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Chloromethane	ND	0.0058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2-Dibromoethane (EDB)	ND	0.00058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Dibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
trans-1,4-Dichloro-2-butene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,3-Dichloropropane	ND	0.00058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
2,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
cis-1,3-Dichloropropene	ND	0.00058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0023	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Naphthalene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.00058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Tetrahydrofuran	ND	0.0058	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2,3-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2,4-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
Vinyl Chloride	ND	0.0058	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
m+p Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		7/21/10 12:18
Toluene-d8	98.9	70-130		7/21/10 12:18
4-Bromofluorobenzene	100	70-130		7/21/10 12:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570
Date Received: 7/19/2010
Field Sample #: TP-05 | Sampled: 7/19/2010 09:30
Sample ID: 10G0570-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Acenaphthylene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Aniline	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Anthracene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Benzo(a)anthracene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Benzo(a)pyrene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Benzo(b)fluoranthene	0.71	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Benzo(g,h,i)perylene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Benzo(k)fluoranthene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Bis(2-chloroethoxy)methane	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Bis(2-chloroethyl)ether	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Bis(2-chloroisopropyl)ether	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
4-Bromophenylphenylether	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Butylbenzylphthalate	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Carbazole	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
4-Chloroaniline	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
4-Chloro-3-methylphenol	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2-Chloronaphthalene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2-Chlorophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
4-Chlorophenylphenylether	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Chrysene	0.44	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Dibenz(a,h)anthracene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Dibenzofuran	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Di-n-butylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
3,3-Dichlorobenzidine	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2,4-Dichlorophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Diethylphthalate	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2,4-Dimethylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Dimethylphthalate	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
4,6-Dinitro-2-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2,4-Dinitrophenol	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2,4-Dinitrotoluene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2,6-Dinitrotoluene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Di-n-octylphthalate	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Fluoranthene	0.67	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Fluorene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Hexachlorobenzene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Hexachlorobutadiene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Hexachlorocyclopentadiene	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Hexachloroethane	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Indeno(1,2,3-cd)pyrene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Isophorone	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2-Methylnaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
3/4-Methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Naphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2-Nitroaniline	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
3-Nitroaniline	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
4-Nitroaniline	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Nitrobenzene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
4-Nitrophenol	ND	1.6	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
N-Nitrosodiphenylamine	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
N-Nitrosodi-n-propylamine	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Pentachloronitrobenzene	ND	0.82	mg/Kg dry	1	V-16	SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Pentachlorophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Phenanthrene	ND	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Phenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Pyrene	0.43	0.41	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
Pyridine	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
1,2,4-Trichlorobenzene	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2,4,5-Trichlorophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL
2,4,6-Trichlorophenol	ND	0.82	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 13:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag		
2-Fluorophenol	67.4	30-130		7/22/10 13:52	
Phenol-d6	66.0	30-130		7/22/10 13:52	
Nitrobenzene-d5	57.7	30-130		7/22/10 13:52	
2-Fluorobiphenyl	61.3	30-130		7/22/10 13:52	
2,4,6-Tribromophenol	56.2	30-130		7/22/10 13:52	
Terphenyl-d14	41.3	30-130		7/22/10 13:52	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Sample Flags: DL-04

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.12	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Aldrin [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
alpha-BHC [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
beta-BHC [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
delta-BHC [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
gamma-BHC (Lindane) [2]	ND	0.018	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Chlordane [2]	ND	0.12	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
4,4'-DDD [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
4,4'-DDE [2]	ND	0.024	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
4,4'-DDT [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Dieldrin [2]	ND	0.012	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Endosulfan I [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Endosulfan II [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Endosulfan sulfate [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Endrin [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Endrin aldehyde [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Endrin ketone [2]	ND	0.048	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Heptachlor [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Heptachlor epoxide [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Hexachlorobenzene [2]	ND	0.030	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Methoxychlor [2]	ND	0.30	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB
Toxaphene [2]	ND	0.60	mg/Kg dry	5		SW-846 8081A	7/21/10	7/22/10 16:56	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	69.9	30-150		7/22/10 16:56
Decachlorobiphenyl [2]	77.4	30-150		7/22/10 16:56
Tetrachloro-m-xylene [1]	76.8	30-150		7/22/10 16:56
Tetrachloro-m-xylene [2]	70.6	30-150		7/22/10 16:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1248 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1254 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1260 [2]	1.7	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	2		SW-846 8082	7/21/10	7/23/10 7:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	80.5	30-150		7/23/10 7:26
Decachlorobiphenyl [2]	78.9	30-150		7/23/10 7:26
Tetrachloro-m-xylene [1]	79.4	30-150		7/23/10 7:26
Tetrachloro-m-xylene [2]	80.3	30-150		7/23/10 7:26

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	5		CTDEP ETPH	7/21/10	7/22/10 19:18	CJM
TPH as Diesel	280	100	mg/Kg dry	5		SW-846 8100 Modified	7/21/10	7/22/10 20:34	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	50.8	50-150				7/22/10 19:18	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.3	2.9	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:45	OP
Barium	48	2.9	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:45	OP
Cadmium	0.85	0.29	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:45	OP
Chromium	35	0.57	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:45	OP
Lead	73	0.86	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:45	OP
Mercury	0.18	0.021	mg/Kg dry	1		SW-846 7471A	7/20/10	7/22/10 12:22	MPF
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:45	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:45	OP

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.3	0.44	mg/Kg dry	1		SW846 9014	7/26/10	7/26/10 12:30	VAK
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/23/10	7/23/10 17:30	AED
pH @24.5°C	7.6		pH Units	1		SW-846 9045D	7/21/10	7/21/10 12:45	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/23/10	7/23/10 18:00	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/23/10	7/23/10 19:00	SBP
Specific conductance	7.3	2.0	µmhos/cm	1		SM18-20 2510B	7/21/10	7/21/10 15:50	SBP
% Solids	82.8		% Wt	1		SM 2540G	7/20/10	7/21/10 9:05	NH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:36	KSH
Barium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:36	KSH
Cadmium	ND	0.0040	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:36	KSH
Chromium	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:36	KSH
Lead	0.011	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:36	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/22/10	7/22/10 12:53	MPF
Selenium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/23/10 11:38	KSH
Silver	ND	0.0050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:36	KSH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-05 | Sampled: 7/19/2010 09:30

Sample ID: 10G0570-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4-DB	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-TP (Silvex)	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-T	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dalapon	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dicamba	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dichloroprop	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dinoseb	ND	125	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	90	40-140				7/22/10 0:00	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570
Date Received: 7/19/2010
Field Sample #: TP-07 | Sampled: 7/19/2010 09:15
Sample ID: 10G0570-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.037	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Acrylonitrile	ND	0.0022	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Benzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Bromobenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Bromodichloromethane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Bromoform	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Bromomethane	ND	0.0037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
2-Butanone (MEK)	ND	0.015	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 12:45	MFF
n-Butylbenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
sec-Butylbenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
tert-Butylbenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Carbon Disulfide	ND	0.0022	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Carbon Tetrachloride	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Chlorobenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Chlorodibromomethane	ND	0.00037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Chloroethane	ND	0.0073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Chloroform	ND	0.0015	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Chloromethane	ND	0.0037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
2-Chlorotoluene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
4-Chlorotoluene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2-Dibromoethane (EDB)	ND	0.00037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Dibromomethane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2-Dichlorobenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,3-Dichlorobenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,4-Dichlorobenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
trans-1,4-Dichloro-2-butene	ND	0.0015	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1-Dichloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2-Dichloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
cis-1,2-Dichloroethylene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
trans-1,2-Dichloroethylene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2-Dichloropropane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,3-Dichloropropane	ND	0.00037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
2,2-Dichloropropane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
cis-1,3-Dichloropropene	ND	0.00037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Ethylbenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Hexachlorobutadiene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
2-Hexanone (MBK)	ND	0.0073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Isopropylbenzene (Cumene)	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0015	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Methylene Chloride	ND	0.0073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Naphthalene	ND	0.0015	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
n-Propylbenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Styrene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1,1,2-Tetrachloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.00037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Tetrachloroethylene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Tetrahydrofuran	ND	0.0037	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Toluene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2,3-Trichlorobenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2,4-Trichlorobenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1,1-Trichloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1,2-Trichloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Trichloroethylene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2,3-Trichloropropane	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,2,4-Trimethylbenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
1,3,5-Trimethylbenzene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
Vinyl Chloride	ND	0.0037	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
m+p Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF
o-Xylene	ND	0.00073	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 12:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	111	70-130		7/21/10 12:45
Toluene-d8	98.5	70-130		7/21/10 12:45
4-Bromofluorobenzene	98.8	70-130		7/21/10 12:45

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570
Date Received: 7/19/2010
Field Sample #: TP-07 | Sampled: 7/19/2010 09:15
Sample ID: 10G0570-05
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Butylbenzylphthalate	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
4-Chloroaniline	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
4-Chloro-3-methylphenol	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Dimethylphthalate	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Di-n-octylphthalate	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Hexachlorocyclopentadiene	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
N-Nitrosodiphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1	V-16	SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:20	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	68.0	30-130		7/22/10 14:20
Phenol-d6	65.4	30-130		7/22/10 14:20
Nitrobenzene-d5	61.0	30-130		7/22/10 14:20
2-Fluorobiphenyl	66.7	30-130		7/22/10 14:20
2,4,6-Tribromophenol	68.9	30-130		7/22/10 14:20
Terphenyl-d14	45.9	30-130		7/22/10 14:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.021	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Aldrin [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
alpha-BHC [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
beta-BHC [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
delta-BHC [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
gamma-BHC (Lindane) [2]	ND	0.0032	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Chlordane [2]	ND	0.021	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
4,4'-DDD [2]	ND	0.0084	mg/Kg dry	1	V-06	SW-846 8081A	7/21/10	7/22/10 20:03	JB
4,4'-DDE [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
4,4'-DDT [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Dieldrin [2]	ND	0.0021	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Endosulfan I [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Endosulfan II [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Endosulfan sulfate [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Endrin [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Endrin aldehyde [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Endrin ketone [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Heptachlor [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Heptachlor epoxide [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Hexachlorobenzene [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Methoxychlor [2]	ND	0.053	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB
Toxaphene [2]	ND	0.11	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:03	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	80.5	30-150		7/22/10 20:03
Decachlorobiphenyl [2]	98.0	30-150		7/22/10 20:03
Tetrachloro-m-xylene [1]	91.7	30-150		7/22/10 20:03
Tetrachloro-m-xylene [2]	87.8	30-150		7/22/10 20:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.8	30-150		7/22/10 20:27
Decachlorobiphenyl [2]	83.9	30-150		7/22/10 20:27
Tetrachloro-m-xylene [1]	84.2	30-150		7/22/10 20:27
Tetrachloro-m-xylene [2]	88.4	30-150		7/22/10 20:27

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	88	85	mg/Kg dry	4		CTDEP ETPH	7/21/10	7/23/10 12:52	CJM
TPH as Diesel	120	88	mg/Kg dry	10		SW-846 8100 Modified	7/21/10	7/22/10 20:15	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	61.5	50-150				7/23/10 12:52	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:50	OP
Barium	19	2.6	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:50	OP
Cadmium	0.36	0.26	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:50	OP
Chromium	12	0.52	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:50	OP
Lead	27	0.78	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:50	OP
Mercury	0.028	0.017	mg/Kg dry	1		SW-846 7471A	7/20/10	7/22/10 12:27	MPF
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:50	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:50	OP

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.38	mg/Kg dry	1		SW846 9014	7/26/10	7/26/10 12:30	VAK
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/23/10	7/23/10 17:30	AED
pH @24.6°C	7.4		pH Units	1		SW-846 9045D	7/21/10	7/21/10 12:45	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/23/10	7/23/10 18:00	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/23/10	7/23/10 19:00	SBP
Specific conductance	5.2	2.0	µmhos/cm	1		SM18-20 2510B	7/21/10	7/21/10 15:50	SBP
% Solids	93.8		% Wt	1		SM 2540G	7/20/10	7/21/10 9:05	NH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:42	KSH
Barium	0.089	0.050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:41	KSH
Cadmium	ND	0.0040	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:42	KSH
Chromium	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:42	KSH
Lead	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:42	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/22/10	7/22/10 12:55	MPF
Selenium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/23/10 11:44	KSH
Silver	ND	0.0050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:41	KSH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: TP-07 | Sampled: 7/19/2010 09:15

Sample ID: 10G0570-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4-DB	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-TP (Silvex)	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-T	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dalapon	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dicamba	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dichloroprop	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dinoseb	ND	110	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	84	40-140				7/22/10	0:00

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570
Date Received: 7/19/2010
Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00
Sample ID: 10G0570-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.048	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Acrylonitrile	ND	0.0029	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Benzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Bromobenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Bromodichloromethane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Bromoform	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Bromomethane	ND	0.0048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
2-Butanone (MEK)	ND	0.019	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 13:13	MFF
n-Butylbenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
sec-Butylbenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
tert-Butylbenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Carbon Disulfide	ND	0.0029	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Carbon Tetrachloride	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Chlorobenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Chlorodibromomethane	ND	0.00048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Chloroethane	ND	0.0096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Chloroform	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Chloromethane	ND	0.0048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
2-Chlorotoluene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
4-Chlorotoluene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2-Dibromoethane (EDB)	ND	0.00048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Dibromomethane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2-Dichlorobenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,3-Dichlorobenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,4-Dichlorobenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
trans-1,4-Dichloro-2-butene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1-Dichloroethane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2-Dichloroethane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
cis-1,2-Dichloroethylene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
trans-1,2-Dichloroethylene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2-Dichloropropane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,3-Dichloropropane	ND	0.00048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
2,2-Dichloropropane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1-Dichloropropene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
cis-1,3-Dichloropropene	ND	0.00048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
trans-1,3-Dichloropropene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Ethylbenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Hexachlorobutadiene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
2-Hexanone (MBK)	ND	0.0096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Isopropylbenzene (Cumene)	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Methylene Chloride	ND	0.0096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Naphthalene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
n-Propylbenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Styrene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.00048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Tetrachloroethylene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Tetrahydrofuran	ND	0.0048	mg/Kg dry	1	V-16	SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Toluene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2,3-Trichlorobenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2,4-Trichlorobenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1,1-Trichloroethane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1,2-Trichloroethane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Trichloroethylene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2,3-Trichloropropane	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,2,4-Trimethylbenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
1,3,5-Trimethylbenzene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
Vinyl Chloride	ND	0.0048	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
m+p Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF
o-Xylene	ND	0.00096	mg/Kg dry	1		SW-846 8260B	7/21/10	7/21/10 13:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	107	70-130		7/21/10 13:13
Toluene-d8	98.5	70-130		7/21/10 13:13
4-Bromofluorobenzene	98.2	70-130		7/21/10 13:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570
Date Received: 7/19/2010
Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00
Sample ID: 10G0570-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Aniline	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Bis(2-chloroethoxy)methane	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Bis(2-chloroethyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
4-Bromophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Butylbenzylphthalate	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
4-Chloroaniline	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
4-Chloro-3-methylphenol	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2-Chloronaphthalene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2-Chlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
4-Chlorophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Dibenzofuran	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Di-n-butylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2,4-Dichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Diethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2,4-Dimethylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Dimethylphthalate	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2,4-Dinitrophenol	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2,4-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2,6-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Di-n-octylphthalate	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Hexachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Hexachlorobutadiene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Hexachlorocyclopentadiene	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Hexachloroethane	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Isophorone	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
3/4-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
3-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
4-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Nitrobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2-Nitrophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
4-Nitrophenol	ND	0.83	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
N-Nitrosodiphenylamine	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
N-Nitrosodi-n-propylamine	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Pentachloronitrobenzene	ND	0.43	mg/Kg dry	1	V-16	SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Pentachlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Phenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
Pyridine	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
1,2,4-Trichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2,4,5-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL
2,4,6-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	7/21/10	7/22/10 14:49	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	61.5	30-130		7/22/10 14:49
Phenol-d6	56.9	30-130		7/22/10 14:49
Nitrobenzene-d5	52.7	30-130		7/22/10 14:49
2-Fluorobiphenyl	53.9	30-130		7/22/10 14:49
2,4,6-Tribromophenol	54.4	30-130		7/22/10 14:49
Terphenyl-d14	43.4	30-130		7/22/10 14:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.025	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Aldrin [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
alpha-BHC [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
beta-BHC [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
delta-BHC [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
gamma-BHC (Lindane) [2]	ND	0.0037	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Chlordane [2]	ND	0.025	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
4,4'-DDD [2]	ND	0.0098	mg/Kg dry	1	V-06	SW-846 8081A	7/21/10	7/22/10 20:18	JB
4,4'-DDE [2]	ND	0.0049	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
4,4'-DDT [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Dieldrin [2]	ND	0.0025	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Endosulfan I [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Endosulfan II [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Endosulfan sulfate [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Endrin [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Endrin aldehyde [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Endrin ketone [2]	ND	0.0098	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Heptachlor [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Heptachlor epoxide [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Hexachlorobenzene [2]	ND	0.0061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Methoxychlor [2]	ND	0.061	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB
Toxaphene [2]	ND	0.12	mg/Kg dry	1		SW-846 8081A	7/21/10	7/22/10 20:18	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.5	30-150		7/22/10 20:18
Decachlorobiphenyl [2]	103	30-150		7/22/10 20:18
Tetrachloro-m-xylene [1]	99.0	30-150		7/22/10 20:18
Tetrachloro-m-xylene [2]	90.2	30-150		7/22/10 20:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	7/21/10	7/22/10 20:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.7	30-150		7/22/10 20:41
Decachlorobiphenyl [2]	88.5	30-150		7/22/10 20:41
Tetrachloro-m-xylene [1]	92.8	30-150		7/22/10 20:41
Tetrachloro-m-xylene [2]	93.8	30-150		7/22/10 20:41

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	87	25	mg/Kg dry	1		CTDEP ETPH	7/21/10	7/23/10 13:29	CJM
TPH as Diesel	57	10	mg/Kg dry	1		SW-846 8100 Modified	7/21/10	7/22/10 20:53	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	64.3	50-150				7/23/10 13:29	

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.4	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:54	OP
Barium	27	3.4	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:54	OP
Cadmium	ND	0.34	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:54	OP
Chromium	5.9	0.67	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:54	OP
Lead	34	1.0	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:54	OP
Mercury	ND	0.016	mg/Kg dry	1		SW-846 7471A	7/20/10	7/22/10 12:29	MPF
Selenium	ND	6.7	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:54	OP
Silver	ND	0.67	mg/Kg dry	1		SW-846 6010B	7/20/10	7/21/10 17:54	OP

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.46	0.33	mg/Kg dry	1		SW846 9014	7/26/10	7/26/10 12:30	VAK
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/23/10	7/23/10 17:30	AED
pH @24°C	7.5		pH Units	1		SW-846 9045D	7/21/10	7/21/10 12:45	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/23/10	7/23/10 18:00	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/23/10	7/23/10 19:00	SBP
Specific conductance	4.4	2.0	µmhos/cm	1		SM18-20 2510B	7/21/10	7/21/10 15:50	SBP
% Solids	79.9		% Wt	1		SM 2540G	7/20/10	7/21/10 9:05	NH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:47	KSH
Barium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:47	KSH
Cadmium	ND	0.0040	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:47	KSH
Chromium	ND	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:47	KSH
Lead	0.071	0.010	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:47	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/22/10	7/22/10 12:57	MPF
Selenium	ND	0.050	mg/L	1		SW-846 6010B	7/22/10	7/23/10 12:01	KSH
Silver	ND	0.0050	mg/L	1		SW-846 6010B	7/22/10	7/22/10 17:47	KSH

con-test® ANALYTICAL LABORATORY
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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10G0570

Date Received: 7/19/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10G0570-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4-DB	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-TP (Silvex)	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
2,4,5-T	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dalapon	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dicamba	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dichloroprop	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET
Dinoseb	ND	120	µg/Kg	1		SW-846 8151	7/22/10	7/22/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	56	40-140				7/22/10 0:00	

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016550	30.0	2.00	07/21/10
10G0570-02 [TP-03]	B016550	30.0	2.00	07/21/10
10G0570-03 [TP-04]	B016550	30.0	2.00	07/21/10
10G0570-04 [TP-05]	B016550	30.0	2.00	07/21/10
10G0570-05 [TP-07]	B016550	30.0	2.00	07/21/10
10G0570-06 [Dup-1]	B016550	30.2	2.00	07/21/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0570-01 [TP-01]	B016529	07/20/10
10G0570-02 [TP-03]	B016529	07/20/10
10G0570-03 [TP-04]	B016529	07/20/10
10G0570-04 [TP-05]	B016529	07/20/10
10G0570-05 [TP-07]	B016529	07/20/10
10G0570-06 [Dup-1]	B016529	07/20/10

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
10G0570-01 [TP-01]	B016643	1.00	07/21/10
10G0570-02 [TP-03]	B016643	1.00	07/21/10
10G0570-03 [TP-04]	B016643	1.00	07/21/10
10G0570-04 [TP-05]	B016643	1.00	07/21/10
10G0570-05 [TP-07]	B016643	1.00	07/21/10
10G0570-06 [Dup-1]	B016643	1.00	07/21/10

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016677	50.0	50.0	07/22/10
10G0570-02 [TP-03]	B016677	50.0	50.0	07/22/10
10G0570-03 [TP-04]	B016677	50.0	50.0	07/22/10

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-04 [TP-05]	B016698	50.0	50.0	07/23/10
10G0570-05 [TP-07]	B016698	50.0	50.0	07/23/10
10G0570-06 [Dup-1]	B016698	50.0	50.0	07/23/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016507	0.973	50.0	07/20/10
10G0570-02 [TP-03]	B016507	0.964	50.0	07/20/10
10G0570-03 [TP-04]	B016507	0.998	50.0	07/20/10
10G0570-04 [TP-05]	B016507	1.05	50.0	07/20/10
10G0570-05 [TP-07]	B016507	1.02	50.0	07/20/10

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Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-06 [Dup-1]	B016507	0.928	50.0	07/20/10

Prep Method: SW-846 3010A-SW-846 6010B **Leachates were extracted on 7/21/2010 per SW-846 1311 in Batch B016565**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10G0570-01 [TP-01]	B016609	50.0	50.0	07/22/10
10G0570-02 [TP-03]	B016609	50.0	50.0	07/22/10
10G0570-03 [TP-04]	B016609	50.0	50.0	07/22/10
10G0570-04 [TP-05]	B016609	50.0	50.0	07/22/10
10G0570-05 [TP-07]	B016609	50.0	50.0	07/22/10
10G0570-06 [Dup-1]	B016609	50.0	50.0	07/22/10

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 7/21/2010 per SW-846 1311 in Batch B016565**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10G0570-01 [TP-01]	B016600	6.00	6.00	07/22/10
10G0570-02 [TP-03]	B016600	6.00	6.00	07/22/10
10G0570-03 [TP-04]	B016600	6.00	6.00	07/22/10
10G0570-04 [TP-05]	B016600	6.00	6.00	07/22/10
10G0570-05 [TP-07]	B016600	6.00	6.00	07/22/10
10G0570-06 [Dup-1]	B016600	6.00	6.00	07/22/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016508	0.146	25.0	07/20/10
10G0570-02 [TP-03]	B016508	0.177	25.0	07/20/10
10G0570-03 [TP-04]	B016508	0.135	25.0	07/20/10
10G0570-04 [TP-05]	B016508	0.145	25.0	07/20/10
10G0570-05 [TP-07]	B016508	0.152	25.0	07/20/10
10G0570-06 [Dup-1]	B016508	0.202	25.0	07/20/10

Prep Method: SW-846 3546-SW-846 8081A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016533	10.2	10.0	07/21/10
10G0570-02 [TP-03]	B016533	10.0	10.0	07/21/10
10G0570-03 [TP-04]	B016533	10.0	10.0	07/21/10
10G0570-04 [TP-05]	B016533	10.0	10.0	07/21/10
10G0570-05 [TP-07]	B016533	10.1	10.0	07/21/10
10G0570-06 [Dup-1]	B016533	10.2	10.0	07/21/10

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016535	10.2	50.0	07/21/10
10G0570-02 [TP-03]	B016535	10.0	50.0	07/21/10
10G0570-03 [TP-04]	B016535	10.0	50.0	07/21/10
10G0570-04 [TP-05]	B016535	10.0	50.0	07/21/10

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-05 [TP-07]	B016535	10.1	50.0	07/21/10
10G0570-06 [Dup-1]	B016535	10.2	50.0	07/21/10

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-02 [TP-03]	B016536	30.0	2.00	07/21/10
10G0570-03 [TP-04]	B016536	30.0	1.00	07/21/10
10G0570-04 [TP-05]	B016536	30.0	2.00	07/21/10
10G0570-05 [TP-07]	B016536	30.2	1.00	07/21/10
10G0570-06 [Dup-1]	B016536	30.2	1.00	07/21/10

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01RE1 [TP-01]	B016721	30.0	1.00	07/26/10

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016552	14.3	10.0	07/21/10
10G0570-02 [TP-03]	B016552	13.3	10.0	07/21/10
10G0570-03 [TP-04]	B016552	10.0	10.0	07/21/10
10G0570-04 [TP-05]	B016552	10.4	10.0	07/21/10
10G0570-05 [TP-07]	B016552	14.6	10.0	07/21/10
10G0570-06 [Dup-1]	B016552	13.0	10.0	07/21/10

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016538	30.1	1.00	07/21/10
10G0570-02 [TP-03]	B016538	30.2	1.00	07/21/10
10G0570-03 [TP-04]	B016538	30.1	1.00	07/21/10
10G0570-04 [TP-05]	B016538	30.1	2.00	07/21/10
10G0570-05 [TP-07]	B016538	30.1	1.00	07/21/10
10G0570-06 [Dup-1]	B016538	30.0	1.00	07/21/10

SW846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016744	1.93	50.0	07/26/10
10G0570-02 [TP-03]	B016744	1.66	50.0	07/26/10
10G0570-03 [TP-04]	B016744	1.11	50.0	07/26/10
10G0570-04 [TP-05]	B016744	1.38	50.0	07/26/10
10G0570-05 [TP-07]	B016744	1.41	50.0	07/26/10
10G0570-06 [Dup-1]	B016744	1.90	50.0	07/26/10

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Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016699	25.2	250	07/23/10
10G0570-02 [TP-03]	B016699	25.0	250	07/23/10
10G0570-03 [TP-04]	B016699	25.0	250	07/23/10
10G0570-04 [TP-05]	B016699	25.1	250	07/23/10
10G0570-05 [TP-07]	B016699	25.2	250	07/23/10
10G0570-06 [Dup-1]	B016699	25.1	250	07/23/10

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0570-01 [TP-01]	B016702	25.2	250	07/23/10
10G0570-02 [TP-03]	B016702	25.0	250	07/23/10
10G0570-03 [TP-04]	B016702	25.0	250	07/23/10
10G0570-04 [TP-05]	B016702	25.1	250	07/23/10
10G0570-05 [TP-07]	B016702	25.2	250	07/23/10
10G0570-06 [Dup-1]	B016702	25.1	250	07/23/10

SW-846 9045D

Lab Number [Field ID]	Batch	Initial [g]	Date
10G0570-01 [TP-01]	B016615	20.0	07/21/10
10G0570-02 [TP-03]	B016615	20.0	07/21/10
10G0570-03 [TP-04]	B016615	20.0	07/21/10
10G0570-04 [TP-05]	B016615	20.0	07/21/10
10G0570-05 [TP-07]	B016615	20.0	07/21/10
10G0570-06 [Dup-1]	B016615	20.0	07/21/10

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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 B016552 - SW-846 5035										
Blank (B016552-BLK1)				Prepared & Analyzed: 07/21/10						
Acetone	ND	0.10	mg/Kg wet							V-16
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							V-16
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	0.0020	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 B016552 - SW-846 5035											
Blank (B016552-BLK1)				Prepared & Analyzed: 07/21/10							
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	*0.0445*		mg/Kg wet	0.0500		89.0	70-130				
Surrogate: Toluene-d8	*0.0489*		mg/Kg wet	0.0500		97.8	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0466*		mg/Kg wet	0.0500		93.3	70-130				
LCS (B016552-BS1)				Prepared & Analyzed: 07/21/10							
Acetone	0.166	0.10	mg/Kg wet	0.200		82.9	70-160			V-16	†
Acrylonitrile	0.0171	0.0060	mg/Kg wet	0.0200		85.5	70-130				
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130				
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130				
Bromodichloromethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
Bromoform	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130				
Bromomethane	0.0177	0.010	mg/Kg wet	0.0200		88.7	40-130				†
2-Butanone (MEK)	0.187	0.040	mg/Kg wet	0.200		93.6	70-160			V-16	†
n-Butylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130				
sec-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
tert-Butylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-160				†
Carbon Disulfide	0.200	0.0060	mg/Kg wet	0.200		99.8	70-130				
Carbon Tetrachloride	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130				
Chlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130				
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130				
Chloroethane	0.0188	0.020	mg/Kg wet	0.0200		94.2	70-130				
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		97.1	70-130				
Chloromethane	0.0172	0.010	mg/Kg wet	0.0200		85.8	70-130				
2-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130				
4-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130				
1,2-Dibromoethane (EDB)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130				
Dibromomethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130				
1,2-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130				
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130				
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130				
trans-1,4-Dichloro-2-butene	0.0184	0.0040	mg/Kg wet	0.0200		91.8	70-130				
Dichlorodifluoromethane (Freon 12)	0.0194	0.020	mg/Kg wet	0.0200		97.2	40-160				†
1,1-Dichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130				
1,2-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130				
1,1-Dichloroethylene	0.0194	0.0040	mg/Kg wet	0.0200		96.8	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 B016552 - SW-846 5035												
LCS (B016552-BS1)				Prepared & Analyzed: 07/21/10								
cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
trans-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
1,2-Dichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130				
1,3-Dichloropropane	0.0196	0.0010	mg/Kg wet	0.0200		97.8		70-130				
2,2-Dichloropropane	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130				
1,1-Dichloropropene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130				
cis-1,3-Dichloropropene	0.0211	0.0010	mg/Kg wet	0.0200		105		70-130				
trans-1,3-Dichloropropene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Ethylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130				
Hexachlorobutadiene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-160				
2-Hexanone (MBK)	0.197	0.020	mg/Kg wet	0.200		98.5		70-160				†
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
p-Isopropyltoluene (p-Cymene)	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0194	0.0040	mg/Kg wet	0.0200		97.2		70-130				
Methylene Chloride	0.0185	0.020	mg/Kg wet	0.0200		92.6		40-160				†
4-Methyl-2-pentanone (MIBK)	0.194	0.020	mg/Kg wet	0.200		96.9		70-160				†
Naphthalene	0.0175	0.0040	mg/Kg wet	0.0200		87.6		40-130				†
n-Propylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Styrene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
1,1,1,2-Tetrachloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130				
1,1,2,2-Tetrachloroethane	0.0182	0.0010	mg/Kg wet	0.0200		91.2		70-130				
Tetrachloroethylene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130				
Tetrahydrofuran	0.0185	0.010	mg/Kg wet	0.0200		92.4		70-130			V-16	
Toluene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130				
1,2,3-Trichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130				
1,2,4-Trichlorobenzene	0.0250	0.0020	mg/Kg wet	0.0200		125		70-130				
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
1,1,2-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		93.8		70-130				
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Trichlorofluoromethane (Freon 11)	0.0197	0.010	mg/Kg wet	0.0200		98.5		70-130				
1,2,3-Trichloropropane	0.0187	0.0020	mg/Kg wet	0.0200		93.7		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0191	0.010	mg/Kg wet	0.0200		95.4		70-130				
1,2,4-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
1,3,5-Trimethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130				
Vinyl Chloride	0.0196	0.010	mg/Kg wet	0.0200		98.2		40-130				†
m+p Xylene	0.0436	0.0040	mg/Kg wet	0.0400		109		70-130				
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0458*		mg/Kg wet	0.0500		91.6		70-130				
Surrogate: Toluene-d8	*0.0494*		mg/Kg wet	0.0500		98.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		97.9		70-130				
Matrix Spike (B016552-MS1)	**Source: 10G0570-01**			Prepared & Analyzed: 07/21/10								
Acetone	0.124	0.043	mg/Kg dry	0.0861	ND	**144**	*	70-130			MS-14, V-16	
Acrylonitrile	0.00968	0.0026	mg/Kg dry	0.00861	ND	112		70-130				
Benzene	0.00793	0.00086	mg/Kg dry	0.00861	ND	92.1		70-130				
Bromobenzene	0.00871	0.00086	mg/Kg dry	0.00861	ND	101		70-130				
Bromodichloromethane	0.00819	0.00086	mg/Kg dry	0.00861	ND	95.1		70-130				
Bromoform	0.0100	0.00086	mg/Kg dry	0.00861	ND	116		70-130				
Bromomethane	0.00473	0.0043	mg/Kg dry	0.00861	ND	**54.9**	*	70-130			MS-07	
2-Butanone (MEK)	0.110	0.017	mg/Kg dry	0.0861	ND	128		70-130			V-16	
n-Butylbenzene	0.00781	0.00086	mg/Kg dry	0.00861	ND	90.7		70-130				
sec-Butylbenzene	0.00775	0.00086	mg/Kg dry	0.00861	ND	90.0		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 B016552 - SW-846 5035											
Matrix Spike (B016552-MS1)	**Source: 10G0570-01**			Prepared & Analyzed: 07/21/10							
tert-Butylbenzene	0.00785	0.00086	mg/Kg dry	0.00861	ND	91.2		70-130			
Carbon Disulfide	0.00866	0.0026	mg/Kg dry	0.00861	ND	101		70-130			
Carbon Tetrachloride	0.00802	0.00086	mg/Kg dry	0.00861	ND	93.2		70-130			
Chlorobenzene	0.00822	0.00086	mg/Kg dry	0.00861	ND	95.5		70-130			
Chlorodibromomethane	0.00931	0.00043	mg/Kg dry	0.00861	ND	108		70-130			
Chloroethane	0.00781	0.0086	mg/Kg dry	0.00861	ND	90.7		70-130			
Chloroform	0.00794	0.0017	mg/Kg dry	0.00861	ND	92.2		70-130			
Chloromethane	0.00651	0.0043	mg/Kg dry	0.00861	ND	75.6		70-130			
2-Chlorotoluene	0.00813	0.00086	mg/Kg dry	0.00861	ND	94.4		70-130			
4-Chlorotoluene	0.00844	0.00086	mg/Kg dry	0.00861	ND	98.0		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00925	0.00086	mg/Kg dry	0.00861	ND	107		70-130			
1,2-Dibromoethane (EDB)	0.00926	0.00043	mg/Kg dry	0.00861	ND	108		70-130			
Dibromomethane	0.00889	0.00086	mg/Kg dry	0.00861	ND	103		70-130			
1,2-Dichlorobenzene	0.00838	0.00086	mg/Kg dry	0.00861	ND	97.3		70-130			
1,3-Dichlorobenzene	0.00828	0.00086	mg/Kg dry	0.00861	ND	96.2		70-130			
1,4-Dichlorobenzene	0.00801	0.00086	mg/Kg dry	0.00861	ND	93.0		70-130			
trans-1,4-Dichloro-2-butene	0.0101	0.0017	mg/Kg dry	0.00861	ND	117		70-130			
Dichlorodifluoromethane (Freon 12)	0.0102	0.0086	mg/Kg dry	0.00861	ND	118		70-130			
1,1-Dichloroethane	0.00804	0.00086	mg/Kg dry	0.00861	ND	93.4		70-130			
1,2-Dichloroethane	0.00864	0.00086	mg/Kg dry	0.00861	ND	100		70-130			
1,1-Dichloroethylene	0.00790	0.0017	mg/Kg dry	0.00861	ND	91.7		70-130			
cis-1,2-Dichloroethylene	0.00839	0.00086	mg/Kg dry	0.00861	ND	97.4		70-130			
trans-1,2-Dichloroethylene	0.00825	0.00086	mg/Kg dry	0.00861	ND	95.8		70-130			
1,2-Dichloropropane	0.00828	0.00086	mg/Kg dry	0.00861	ND	96.2		70-130			
1,3-Dichloropropane	0.00894	0.00043	mg/Kg dry	0.00861	ND	104		70-130			
2,2-Dichloropropane	0.00816	0.00086	mg/Kg dry	0.00861	ND	94.8		70-130			
1,1-Dichloropropene	0.00814	0.00086	mg/Kg dry	0.00861	ND	94.5		70-130			
cis-1,3-Dichloropropene	0.00840	0.00043	mg/Kg dry	0.00861	ND	97.6		70-130			
trans-1,3-Dichloropropene	0.00986	0.00086	mg/Kg dry	0.00861	ND	114		70-130			
Ethylbenzene	0.00821	0.00086	mg/Kg dry	0.00861	ND	95.3		70-130			
Hexachlorobutadiene	0.00819	0.00086	mg/Kg dry	0.00861	ND	95.1		70-130			
2-Hexanone (MBK)	0.126	0.0086	mg/Kg dry	0.0861	ND	**146**	*	70-130			MS-14
Isopropylbenzene (Cumene)	0.00945	0.00086	mg/Kg dry	0.00861	ND	110		70-130			
p-Isopropyltoluene (p-Cymene)	0.00802	0.00086	mg/Kg dry	0.00861	ND	93.2		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0101	0.0017	mg/Kg dry	0.00861	ND	117		70-130			
Methylene Chloride	0.00862	0.0086	mg/Kg dry	0.00861	0.00224	74.0		70-130			
4-Methyl-2-pentanone (MIBK)	0.109	0.0086	mg/Kg dry	0.0861	ND	126		70-130			
Naphthalene	0.00762	0.0017	mg/Kg dry	0.00861	0.00155	70.6		70-130			
n-Propylbenzene	0.00846	0.00086	mg/Kg dry	0.00861	ND	98.3		70-130			
Styrene	0.00880	0.00086	mg/Kg dry	0.00861	ND	102		70-130			
1,1,1,2-Tetrachloroethane	0.00866	0.00086	mg/Kg dry	0.00861	ND	101		70-130			
1,1,2,2-Tetrachloroethane	0.00927	0.00043	mg/Kg dry	0.00861	ND	108		70-130			
Tetrachloroethylene	0.00930	0.00086	mg/Kg dry	0.00861	ND	108		70-130			
Tetrahydrofuran	0.00892	0.0043	mg/Kg dry	0.00861	ND	104		70-130			V-16
Toluene	0.00794	0.00086	mg/Kg dry	0.00861	ND	92.2		70-130			
1,2,3-Trichlorobenzene	0.00812	0.00086	mg/Kg dry	0.00861	ND	94.3		70-130			
1,2,4-Trichlorobenzene	0.0106	0.00086	mg/Kg dry	0.00861	ND	124		70-130			
1,1,1-Trichloroethane	0.00791	0.00086	mg/Kg dry	0.00861	ND	91.9		70-130			
1,1,2-Trichloroethane	0.00883	0.00086	mg/Kg dry	0.00861	ND	102		70-130			
Trichloroethylene	0.00842	0.00086	mg/Kg dry	0.00861	ND	97.8		70-130			
Trichlorofluoromethane (Freon 11)	0.00883	0.0043	mg/Kg dry	0.00861	ND	103		70-130			
1,2,3-Trichloropropane	0.00858	0.00086	mg/Kg dry	0.00861	ND	99.6		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 B016552 - SW-846 5035										
Matrix Spike (B016552-MS1)		**Source: 10G0570-01**		Prepared & Analyzed: 07/21/10						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.00847	0.0043	mg/Kg dry	0.00861	ND	98.4	70-130			
1,2,4-Trimethylbenzene	0.00832	0.00086	mg/Kg dry	0.00861	ND	96.6	70-130			
1,3,5-Trimethylbenzene	0.00845	0.00086	mg/Kg dry	0.00861	ND	98.1	70-130			
Vinyl Chloride	0.00766	0.0043	mg/Kg dry	0.00861	ND	89.0	70-130			
m+p Xylene	0.0170	0.0017	mg/Kg dry	0.0172	ND	98.5	70-130			
o-Xylene	0.00857	0.00086	mg/Kg dry	0.00861	ND	99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0217*		mg/Kg dry	0.0215		101	70-130			
Surrogate: Toluene-d8	*0.0216*		mg/Kg dry	0.0215		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0217*		mg/Kg dry	0.0215		101	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 B016538 - SW-846 3546										
Blank (B016538-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
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	0.66	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	0.66	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	0.66	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	0.66	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 B016538 - SW-846 3546											
Blank (B016538-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10							
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							V-16	
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	*5.35*		mg/Kg wet	6.67		80.2	30-130				
Surrogate: Phenol-d6	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Nitrobenzene-d5	*2.38*		mg/Kg wet	3.33		71.3	30-130				
Surrogate: 2-Fluorobiphenyl	*2.79*		mg/Kg wet	3.33		83.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.54*		mg/Kg wet	6.67		68.1	30-130				
Surrogate: Terphenyl-d14	*2.43*		mg/Kg wet	3.33		72.8	30-130				
LCS (B016538-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10							
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		69.3	40-140				
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140				
Aniline	1.20	0.34	mg/Kg wet	1.67		71.8	40-140				†
Anthracene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140				
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140				
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140				
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140				
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140				
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140				
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		74.9	40-140				
Bis(2-chloroethyl)ether	1.31	0.34	mg/Kg wet	1.67		78.8	40-140				
Bis(2-chloroisopropyl)ether	1.15	0.34	mg/Kg wet	1.67		69.3	40-140				
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.1	40-140				
4-Bromophenylphenylether	1.29	0.34	mg/Kg wet	1.67		77.5	40-140				
Butylbenzylphthalate	1.21	0.66	mg/Kg wet	1.67		72.6	40-140				
Carbazole	1.22	0.17	mg/Kg wet	1.67		73.0	40-140				
4-Chloroaniline	1.27	0.66	mg/Kg wet	1.67		76.5	40-140				†
4-Chloro-3-methylphenol	1.26	0.66	mg/Kg wet	1.67		75.5	30-130				
2-Chloronaphthalene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140				
2-Chlorophenol	1.25	0.34	mg/Kg wet	1.67		74.7	30-130				
4-Chlorophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.8	40-140				
Chrysene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140				
Dibenz(a,h)anthracene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140				
Dibenzofuran	1.27	0.34	mg/Kg wet	1.67		76.4	40-140				
Di-n-butylphthalate	1.21	0.34	mg/Kg wet	1.67		72.7	40-140				
3,3-Dichlorobenzidine	1.58	0.17	mg/Kg wet	1.67		94.7	40-140				†
2,4-Dichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.2	30-130				
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.7	40-140				
2,4-Dimethylphenol	1.21	0.34	mg/Kg wet	1.67		72.9	30-130				
Dimethylphthalate	1.28	0.66	mg/Kg wet	1.67		76.6	40-140				
4,6-Dinitro-2-methylphenol	0.927	0.34	mg/Kg wet	1.67		55.6	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 B016538 - SW-846 3546											
LCS (B016538-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10							
2,4-Dinitrophenol	0.764	0.66	mg/Kg wet	1.67		45.8	30-130				
2,4-Dinitrotoluene	1.24	0.34	mg/Kg wet	1.67		74.6	40-140				
2,6-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140				
Di-n-octylphthalate	1.26	0.66	mg/Kg wet	1.67		75.8	40-140				
Fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140				
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140				
Hexachlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.7	40-140				
Hexachlorobutadiene	1.19	0.34	mg/Kg wet	1.67		71.6	40-140				
Hexachlorocyclopentadiene	1.14	0.66	mg/Kg wet	1.67		68.1	30-140				
Hexachloroethane	1.16	0.34	mg/Kg wet	1.67		69.7	40-140				
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140				
Isophorone	1.19	0.34	mg/Kg wet	1.67		71.6	40-140				
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140				
2-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130				
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.0	30-130				
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140				
2-Nitroaniline	1.21	0.34	mg/Kg wet	1.67		72.4	40-140				
3-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		78.1	40-140				†
4-Nitroaniline	1.29	0.34	mg/Kg wet	1.67		77.4	40-140				
Nitrobenzene	1.14	0.34	mg/Kg wet	1.67		68.1	40-140				
2-Nitrophenol	1.23	0.34	mg/Kg wet	1.67		73.6	30-130				
4-Nitrophenol	1.33	0.66	mg/Kg wet	1.67		79.6	10-130				
N-Nitrosodiphenylamine	1.48	0.34	mg/Kg wet	1.67		88.6	40-140				
N-Nitrosodi-n-propylamine	1.11	0.34	mg/Kg wet	1.67		66.7	40-140				
Pentachloronitrobenzene	0.658	0.34	mg/Kg wet	0.833		79.0	40-140			V-16	
Pentachlorophenol	1.30	0.34	mg/Kg wet	1.67		77.7	30-130				
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140				
Phenol	1.21	0.34	mg/Kg wet	1.67		72.7	20-130				
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140				
Pyridine	0.881	0.34	mg/Kg wet	1.67		52.9	10-140				†
1,2,4,5-Tetrachlorobenzene	0.642	0.34	mg/Kg wet	0.833		77.0	40-140				
1,2,4-Trichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140				
2,4,5-Trichlorophenol	1.27	0.34	mg/Kg wet	1.67		75.9	30-130				
2,4,6-Trichlorophenol	1.29	0.34	mg/Kg wet	1.67		77.3	30-130				
Surrogate: 2-Fluorophenol	*4.99*		mg/Kg wet	6.67		74.8	30-130				
Surrogate: Phenol-d6	*4.89*		mg/Kg wet	6.67		73.4	30-130				
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg wet	3.33		67.4	30-130				
Surrogate: 2-Fluorobiphenyl	*2.46*		mg/Kg wet	3.33		73.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.04*		mg/Kg wet	6.67		90.6	30-130				
Surrogate: Terphenyl-d14	*2.35*		mg/Kg wet	3.33		70.4	30-130				
LCS Dup (B016538-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10							
Acenaphthene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	2.57	20		
Acenaphthylene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	2.30	20		
Aniline	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	9.18	50		† ‡
Anthracene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	2.43	20		
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	2.68	20		
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	0.451	20		
Benzo(b)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140	3.43	20		
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	4.41	20		
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	1.56	20		
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.6	40-140	1.70	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 B016538 - SW-846 3546											
LCS Dup (B016538-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10							
Bis(2-chloroethyl)ether	1.27	0.34	mg/Kg wet	1.67		76.2	40-140	3.33	20		
Bis(2-chloroisopropyl)ether	1.12	0.34	mg/Kg wet	1.67		67.4	40-140	2.72	20		
Bis(2-Ethylhexyl)phthalate	1.19	0.34	mg/Kg wet	1.67		71.2	40-140	5.39	20		
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		78.9	40-140	1.79	20		
Butylbenzylphthalate	1.15	0.66	mg/Kg wet	1.67		69.0	40-140	5.06	20		
Carbazole	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	5.66	20		
4-Chloroaniline	1.16	0.66	mg/Kg wet	1.67		69.7	40-140	9.31	20		†
4-Chloro-3-methylphenol	1.19	0.66	mg/Kg wet	1.67		71.7	30-130	5.19	20		
2-Chloronaphthalene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	0.0943	20		
2-Chlorophenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130	4.04	20		
4-Chlorophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	4.94	20		
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	3.14	20		
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	2.17	20		
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	3.87	20		
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	5.28	20		
3,3-Dichlorobenzidine	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	8.64	20		† ‡
2,4-Dichlorophenol	1.21	0.34	mg/Kg wet	1.67		72.7	30-130	2.04	20		
Diethylphthalate	1.15	0.34	mg/Kg wet	1.67		69.1	40-140	7.79	20		
2,4-Dimethylphenol	1.18	0.34	mg/Kg wet	1.67		70.9	30-130	2.78	20		
Dimethylphthalate	1.23	0.66	mg/Kg wet	1.67		73.6	40-140	3.97	50		
4,6-Dinitro-2-methylphenol	0.910	0.34	mg/Kg wet	1.67		54.6	30-130	1.89	50		
2,4-Dinitrophenol	0.661	0.66	mg/Kg wet	1.67		39.7	30-130	14.4	50		
2,4-Dinitrotoluene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140	11.3	20		
2,6-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	5.36	20		
Di-n-octylphthalate	1.16	0.66	mg/Kg wet	1.67		69.4	40-140	8.79	20		
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	8.65	20		
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140	5.91	20		
Hexachlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.2	40-140	0.680	20		
Hexachlorobutadiene	1.20	0.34	mg/Kg wet	1.67		72.1	40-140	0.696	20		
Hexachlorocyclopentadiene	1.17	0.66	mg/Kg wet	1.67		70.0	30-140	2.78	50		
Hexachloroethane	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	1.27	50		
Indeno(1,2,3-cd)pyrene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	2.48	50		
Isophorone	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	3.87	20		
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140	1.96	20		
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.5	30-130	2.29	20		
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130	4.11	20		
Naphthalene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140	1.87	20		
2-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	6.59	20		
3-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	12.4	20		†
4-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	13.3	20		
Nitrobenzene	1.13	0.34	mg/Kg wet	1.67		67.6	40-140	0.766	20		
2-Nitrophenol	1.21	0.34	mg/Kg wet	1.67		72.7	30-130	1.23	20		
4-Nitrophenol	1.11	0.66	mg/Kg wet	1.67		66.8	10-130	17.5	50		‡
N-Nitrosodiphenylamine	1.50	0.34	mg/Kg wet	1.67		89.9	40-140	1.43	20		
N-Nitrosodi-n-propylamine	1.09	0.34	mg/Kg wet	1.67		65.2	40-140	2.24	20		
Pentachloronitrobenzene	0.641	0.34	mg/Kg wet	0.833		76.9	40-140	2.67	20	V-16	
Pentachlorophenol	1.18	0.34	mg/Kg wet	1.67		70.5	30-130	9.74	50		
Phenanthrene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140	2.91	20		
Phenol	1.18	0.34	mg/Kg wet	1.67		70.6	20-130	2.99	20		
Pyrene	0.986	0.17	mg/Kg wet	1.67		59.2	40-140	5.14	20		
Pyridine	0.957	0.34	mg/Kg wet	1.67		57.4	10-140	8.23	50		†
1,2,4,5-Tetrachlorobenzene	0.643	0.34	mg/Kg wet	0.833		77.1	40-140	0.104	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 B016538 - SW-846 3546										
LCS Dup (B016538-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10						
1,2,4-Trichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.5	40-140	1.25	20	
2,4,5-Trichlorophenol	1.21	0.34	mg/Kg wet	1.67		72.7	30-130	4.33	20	
2,4,6-Trichlorophenol	1.25	0.34	mg/Kg wet	1.67		74.9	30-130	3.21	50	
Surrogate: 2-Fluorophenol	*4.55*		mg/Kg wet	6.67		68.3	30-130			
Surrogate: Phenol-d6	*4.49*		mg/Kg wet	6.67		67.3	30-130			
Surrogate: Nitrobenzene-d5	*2.09*		mg/Kg wet	3.33		62.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.09*		mg/Kg wet	6.67		76.4	30-130			
Surrogate: Terphenyl-d14	*2.12*		mg/Kg wet	3.33		63.5	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 B016533 - SW-846 3546										
Blank (B016533-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
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	0.0030	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0030	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0080	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0080	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	0.0080	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0080	mg/Kg wet							
Dieldrin	ND	0.0020	mg/Kg wet							
Dieldrin [2C]	ND	0.0020	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	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	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	*0.219*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.229*		mg/Kg wet	0.200		115	30-150			
Surrogate: Tetrachloro-m-xylene	*0.235*		mg/Kg wet	0.200		118	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg wet	0.200		101	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 B016533 - SW-846 3546										
LCS (B016533-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Alachlor	0.022	0.020	mg/Kg wet	0.0200		111	40-140			
Alachlor [2C]	0.025	0.020	mg/Kg wet	0.0200		123	40-140			
Aldrin	0.022	0.0050	mg/Kg wet	0.0200		109	40-140			
Aldrin [2C]	0.023	0.0050	mg/Kg wet	0.0200		116	40-140			
alpha-BHC	0.022	0.0050	mg/Kg wet	0.0200		109	40-140			
alpha-BHC [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140			
beta-BHC	0.020	0.0050	mg/Kg wet	0.0200		101	40-140			
beta-BHC [2C]	0.020	0.0050	mg/Kg wet	0.0200		102	40-140			
delta-BHC	0.021	0.0050	mg/Kg wet	0.0200		104	40-140			
delta-BHC [2C]	0.022	0.0050	mg/Kg wet	0.0200		111	40-140			
gamma-BHC (Lindane)	0.022	0.0030	mg/Kg wet	0.0200		109	40-140			
gamma-BHC (Lindane) [2C]	0.022	0.0030	mg/Kg wet	0.0200		112	40-140			
4,4'-DDD	0.023	0.0080	mg/Kg wet	0.0200		114	40-140			
4,4'-DDD [2C]	0.024	0.0080	mg/Kg wet	0.0200		122	40-140			
4,4'-DDE	0.022	0.0040	mg/Kg wet	0.0200		112	40-140			
4,4'-DDE [2C]	0.024	0.0040	mg/Kg wet	0.0200		118	40-140			
4,4'-DDT	0.022	0.0080	mg/Kg wet	0.0200		111	40-140			
4,4'-DDT [2C]	0.023	0.0080	mg/Kg wet	0.0200		113	40-140			
Dieldrin	0.021	0.0020	mg/Kg wet	0.0200		104	40-140			
Dieldrin [2C]	0.023	0.0020	mg/Kg wet	0.0200		114	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		97.2	40-140			
Endosulfan I [2C]	0.022	0.0050	mg/Kg wet	0.0200		112	40-140			
Endosulfan II	0.021	0.0080	mg/Kg wet	0.0200		106	40-140			
Endosulfan II [2C]	0.024	0.0080	mg/Kg wet	0.0200		119	40-140			
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		99.9	40-140			
Endosulfan Sulfate [2C]	0.022	0.0080	mg/Kg wet	0.0200		112	40-140			
Endrin	0.022	0.0080	mg/Kg wet	0.0200		108	40-140			
Endrin [2C]	0.023	0.0080	mg/Kg wet	0.0200		116	40-140			
Endrin Aldehyde	0.018	0.0080	mg/Kg wet	0.0200		87.6	40-140			
Endrin Aldehyde [2C]	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
Endrin Ketone	0.021	0.0080	mg/Kg wet	0.0200		103	40-140			
Endrin Ketone [2C]	0.022	0.0080	mg/Kg wet	0.0200		111	40-140			
Heptachlor	0.021	0.0050	mg/Kg wet	0.0200		104	40-140			
Heptachlor [2C]	0.023	0.0050	mg/Kg wet	0.0200		114	40-140			
Heptachlor Epoxide	0.021	0.0050	mg/Kg wet	0.0200		104	40-140			
Heptachlor Epoxide [2C]	0.023	0.0050	mg/Kg wet	0.0200		114	40-140			
Hexachlorobenzene	0.021	0.0050	mg/Kg wet	0.0200		107	40-140			
Hexachlorobenzene [2C]	0.020	0.0050	mg/Kg wet	0.0200		99.4	40-140			
Methoxychlor	0.023	0.050	mg/Kg wet	0.0200		113	40-140			
Methoxychlor [2C]	0.023	0.050	mg/Kg wet	0.0200		117	40-140			
Surrogate: Decachlorobiphenyl	*0.247*		mg/Kg wet	0.200		124	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.255*		mg/Kg wet	0.200		128	30-150			
Surrogate: Tetrachloro-m-xylene	*0.247*		mg/Kg wet	0.200		124	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.225*		mg/Kg wet	0.200		113	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 B016533 - SW-846 3546										
LCS Dup (B016533-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Alachlor	0.019	0.020	mg/Kg wet	0.0200		93.9	40-140	17.1	30	
Alachlor [2C]	0.021	0.020	mg/Kg wet	0.0200		104	40-140	16.4	30	
Aldrin	0.019	0.0050	mg/Kg wet	0.0200		92.7	40-140	16.1	30	
Aldrin [2C]	0.020	0.0050	mg/Kg wet	0.0200		101	40-140	14.3	30	
alpha-BHC	0.019	0.0050	mg/Kg wet	0.0200		92.6	40-140	15.8	30	
alpha-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		92.5	40-140	14.0	30	
beta-BHC	0.018	0.0050	mg/Kg wet	0.0200		88.6	40-140	13.3	30	
beta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		90.9	40-140	11.8	30	
delta-BHC	0.018	0.0050	mg/Kg wet	0.0200		89.7	40-140	15.1	30	
delta-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		97.1	40-140	13.7	30	
gamma-BHC (Lindane)	0.019	0.0030	mg/Kg wet	0.0200		94.2	40-140	14.3	30	
gamma-BHC (Lindane) [2C]	0.020	0.0030	mg/Kg wet	0.0200		97.6	40-140	13.8	30	
4,4'-DDD	0.019	0.0080	mg/Kg wet	0.0200		96.2	40-140	16.8	30	
4,4'-DDD [2C]	0.021	0.0080	mg/Kg wet	0.0200		104	40-140	15.5	30	
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		96.1	40-140	15.5	30	
4,4'-DDE [2C]	0.020	0.0040	mg/Kg wet	0.0200		102	40-140	15.1	30	
4,4'-DDT	0.018	0.0080	mg/Kg wet	0.0200		90.9	40-140	19.7	30	
4,4'-DDT [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.1	40-140	16.2	30	
Dieldrin	0.018	0.0020	mg/Kg wet	0.0200		89.6	40-140	15.0	30	
Dieldrin [2C]	0.020	0.0020	mg/Kg wet	0.0200		98.6	40-140	14.7	30	
Endosulfan I	0.017	0.0050	mg/Kg wet	0.0200		83.6	40-140	15.0	30	
Endosulfan I [2C]	0.020	0.0050	mg/Kg wet	0.0200		98.5	40-140	13.0	30	
Endosulfan II	0.018	0.0080	mg/Kg wet	0.0200		91.5	40-140	14.5	30	
Endosulfan II [2C]	0.020	0.0080	mg/Kg wet	0.0200		102	40-140	15.4	30	
Endosulfan Sulfate	0.018	0.0080	mg/Kg wet	0.0200		87.9	40-140	12.8	30	
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.1	40-140	14.9	30	
Endrin	0.019	0.0080	mg/Kg wet	0.0200		92.6	40-140	15.7	30	
Endrin [2C]	0.020	0.0080	mg/Kg wet	0.0200		101	40-140	14.4	30	
Endrin Aldehyde	0.015	0.0080	mg/Kg wet	0.0200		74.5	40-140	16.1	30	
Endrin Aldehyde [2C]	0.017	0.0080	mg/Kg wet	0.0200		87.2	40-140	14.7	30	
Endrin Ketone	0.018	0.0080	mg/Kg wet	0.0200		90.9	40-140	12.2	30	
Endrin Ketone [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.9	40-140	14.0	30	
Heptachlor	0.018	0.0050	mg/Kg wet	0.0200		90.3	40-140	13.7	30	
Heptachlor [2C]	0.020	0.0050	mg/Kg wet	0.0200		99.2	40-140	13.9	30	
Heptachlor Epoxide	0.018	0.0050	mg/Kg wet	0.0200		89.7	40-140	14.5	30	
Heptachlor Epoxide [2C]	0.020	0.0050	mg/Kg wet	0.0200		99.0	40-140	14.3	30	
Hexachlorobenzene	0.018	0.0050	mg/Kg wet	0.0200		91.0	40-140	16.2	30	
Hexachlorobenzene [2C]	0.017	0.0050	mg/Kg wet	0.0200		87.2	40-140	13.0	30	
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		98.1	40-140	13.8	30	
Methoxychlor [2C]	0.024	0.050	mg/Kg wet	0.0200		118	40-140	1.21	30	
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.5	30-150			

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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 B016535 - SW-846 3546										
Blank (B016535-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg wet	0.200		97.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.189*		mg/Kg wet	0.200		94.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.9	30-150			
LCS (B016535-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Aroclor-1016	0.16	0.10	mg/Kg wet	0.200		80.5	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140			
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		83.8	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		93.3	40-140			
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg wet	0.200		96.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.5	30-150			
LCS Dup (B016535-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10						
Aroclor-1016	0.16	0.10	mg/Kg wet	0.200		82.1	40-140	2.05	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		99.8	40-140	1.11	30	
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		85.2	40-140	1.64	30	
Aroclor-1260 [2C]	0.18	0.10	mg/Kg wet	0.200		92.2	40-140	1.11	30	
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.193*		mg/Kg wet	0.200		96.5	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 B016536 - SW-846 3546										
Blank (B016536-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
TPH as Diesel	ND	8.3	mg/Kg wet							
LCS (B016536-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10						
TPH as Diesel	26.2	8.3	mg/Kg wet	33.3		78.6	40-140			
LCS Dup (B016536-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10						
TPH as Diesel	25.9	8.3	mg/Kg wet	33.3		77.8	40-140	1.09	30	
Batch B016550 - SW-846 3546										
Blank (B016550-BLK1)				Prepared: 07/21/10 Analyzed: 07/22/10						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.91*		mg/Kg wet	3.33		87.4	50-150			
LCS (B016550-BS1)				Prepared: 07/21/10 Analyzed: 07/22/10						
CT ETPH	26.2	10	mg/Kg wet	33.3		78.5	60-120			
Surrogate: o-Terphenyl	*2.99*		mg/Kg wet	3.33		89.7	50-150			
LCS Dup (B016550-BSD1)				Prepared: 07/21/10 Analyzed: 07/22/10						
CT ETPH	26.3	10	mg/Kg wet	33.3		78.8	60-120	0.445	30	
Surrogate: o-Terphenyl	*3.04*		mg/Kg wet	3.33		91.1	50-150			
Batch B016721 - SW-846 3546										
Blank (B016721-BLK1)				Prepared & Analyzed: 07/26/10						
TPH as Diesel	ND	8.3	mg/Kg wet							
LCS (B016721-BS1)				Prepared & Analyzed: 07/26/10						
TPH as Diesel	29.0	8.3	mg/Kg wet	33.3		86.9	40-140			
LCS Dup (B016721-BSD1)				Prepared & Analyzed: 07/26/10						
TPH as Diesel	28.6	8.3	mg/Kg wet	33.3		85.7	40-140	1.32	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 B016507 - SW-846 3050B										
Blank (B016507-BLK1)				Prepared: 07/20/10 Analyzed: 07/21/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B016507-BS1)				Prepared: 07/20/10 Analyzed: 07/21/10						
Arsenic	113	4.9	mg/Kg wet	106		107	81.6-118.4			
Barium	343	4.9	mg/Kg wet	327		105	80.7-119.3			
Cadmium	254	0.49	mg/Kg wet	241		105	82.4-117.6			
Chromium	81.1	0.99	mg/Kg wet	79.6		102	78.8-120.7			
Lead	99.7	1.5	mg/Kg wet	106		94.4	79.1-120.3			
Selenium	188	9.9	mg/Kg wet	175		107	78.4-120.9			
Silver	39.4	0.99	mg/Kg wet	45.6		86.5	66.2-133.6			
LCS (B016507-BS2)				Prepared: 07/20/10 Analyzed: 07/21/10						
Lead	0.758	0.75	mg/Kg wet	0.750		101	79.1-120.3			
LCS Dup (B016507-BSD1)				Prepared: 07/20/10 Analyzed: 07/21/10						
Arsenic	112	4.9	mg/Kg wet	105		107	81.6-118.4	0.404	30	
Barium	339	4.9	mg/Kg wet	324		104	80.7-119.3	1.32	30	
Cadmium	266	0.49	mg/Kg wet	239		111	82.4-117.6	4.66	30	
Chromium	81.5	0.98	mg/Kg wet	79.0		103	78.8-120.7	0.478	30	
Lead	97.1	1.5	mg/Kg wet	105		92.6	79.1-120.3	2.66	30	
Selenium	192	9.8	mg/Kg wet	173		111	78.4-120.9	2.11	30	
Silver	38.4	0.98	mg/Kg wet	45.3		84.8	66.2-133.6	2.67	30	
Batch B016508 - SW-846 7471A										
Blank (B016508-BLK1)				Prepared: 07/20/10 Analyzed: 07/22/10						
Mercury	ND	0.025	mg/Kg wet							
LCS (B016508-BS1)				Prepared: 07/20/10 Analyzed: 07/22/10						
Mercury	0.855	0.025	mg/Kg wet	0.856		99.9	66-132			
LCS Dup (B016508-BSD1)				Prepared: 07/20/10 Analyzed: 07/22/10						
Mercury	0.998	0.025	mg/Kg wet	0.940		106	66-132	15.4	30	

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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 B016615 - SW-846 9045D										
Duplicate (B016615-DUP1)		**Source: 10G0570-05**		Prepared & Analyzed: 07/21/10						
pH	7.5		pH Units		7.4			0.403	6.83	
Batch B016643 - SM18-20 2510B										
Blank (B016643-BLK1)				Prepared & Analyzed: 07/21/10						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B016643-BS1)				Prepared & Analyzed: 07/21/10						
Specific conductance	130	2.0	µmhos/cm	147		86.1	83.2-102			
Duplicate (B016643-DUP1)		**Source: 10G0570-02**		Prepared & Analyzed: 07/21/10						
Specific conductance	3.0	2.0	µmhos/cm		3.3			7.29	18.8	
Batch B016677 - SW-846 1010										
Blank (B016677-BLK1)				Prepared & Analyzed: 07/22/10						
Flashpoint	> 212 °F		°F							
LCS (B016677-BS1)				Prepared & Analyzed: 07/22/10						
Flashpoint	81		°F	81.0		99.5	98.8-101			
LCS Dup (B016677-BSD1)				Prepared & Analyzed: 07/22/10						
Flashpoint	81		°F	81.0		99.5	98.8-101	0.00		
Batch B016698 - SW-846 1010										
Blank (B016698-BLK1)				Prepared & Analyzed: 07/23/10						
Flashpoint	> 212 °F		°F							
LCS (B016698-BS1)				Prepared & Analyzed: 07/23/10						
Flashpoint	82		°F	81.0		101	98.8-101			
LCS Dup (B016698-BSD1)				Prepared & Analyzed: 07/23/10						
Flashpoint	82		°F	81.0		101	98.8-101	0.00		
Batch B016699 - SW-846 9014										
Blank (B016699-BLK1)				Prepared & Analyzed: 07/23/10						
Reactive Cyanide	ND	4.0	mg/Kg							

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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 B016702 - SW-846 9030A										
Blank (B016702-BLK1)				Prepared & Analyzed: 07/23/10						
Reactive Sulfide	ND	20	mg/Kg							
Batch B016744 - SW846 9014										
Blank (B016744-BLK1)				Prepared & Analyzed: 07/26/10						
Cyanide	ND	0.46	mg/Kg wet							
LCS (B016744-BS1)				Prepared & Analyzed: 07/26/10						
Cyanide	55	0.99	mg/Kg wet	54.0		102	80-120			
LCS Dup (B016744-BSD1)				Prepared & Analyzed: 07/26/10						
Cyanide	54	0.99	mg/Kg wet	54.1		100	80-120	1.63	20	

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016600 - SW-846 7470A Prep										
Blank (B016600-BLK1)				Prepared & Analyzed: 07/22/10						
Mercury	ND	0.00010	mg/L							
LCS (B016600-BS1)				Prepared & Analyzed: 07/22/10						
Mercury	0.00211	0.00010	mg/L	0.00200		106	80-120			
LCS Dup (B016600-BSD1)				Prepared & Analyzed: 07/22/10						
Mercury	0.00210	0.00010	mg/L	0.00200		105	80-120	0.693	20	
Batch B016609 - SW-846 3010A										
Blank (B016609-BLK1)				Prepared & Analyzed: 07/22/10						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
LCS (B016609-BS1)				Prepared & Analyzed: 07/22/10						
Arsenic	0.567	0.010	mg/L	0.500		113	80-120			
Barium	0.502	0.050	mg/L	0.500		100	80-120			
Cadmium	0.534	0.0040	mg/L	0.500		107	80-120			
Chromium	0.489	0.010	mg/L	0.500		97.9	80-120			
Lead	0.482	0.010	mg/L	0.500		96.5	80-120			
Selenium	0.578	0.050	mg/L	0.500		116	80-120			
Silver	0.516	0.0050	mg/L	0.500		103	80-120			
LCS Dup (B016609-BSD1)				Prepared & Analyzed: 07/22/10						
Arsenic	0.585	0.010	mg/L	0.500		117	80-120	3.09	20	
Barium	0.514	0.050	mg/L	0.500		103	80-120	2.37	20	
Cadmium	0.547	0.0040	mg/L	0.500		109	80-120	2.34	20	
Chromium	0.499	0.010	mg/L	0.500		99.9	80-120	2.03	20	
Lead	0.495	0.010	mg/L	0.500		99.1	80-120	2.66	20	
Selenium	0.595	0.050	mg/L	0.500		119	80-120	2.89	20	
Silver	0.530	0.0050	mg/L	0.500		106	80-120	2.75	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch V0722 - SW-846 3540C										
BLK (V0722-BLK1)				Prepared & Analyzed: 07/22/10						
2,4-D	ND	100	µg/Kg				-			
2,4-DB	ND	100	µg/Kg				-			
2,4,5-TP (Silvex)	ND	100	µg/Kg				-			
2,4,5-T	ND	100	µg/Kg				-			
Dalapon	ND	100	µg/Kg				-			
Dicamba	ND	100	µg/Kg				-			
Dichloroprop	ND	100	µg/Kg				-			
Dinoseb	ND	100	µg/Kg				-			
Surrogate: DCMA	*83*		µg/Kg			83	40-140			
BS (V0722-BS1)				Prepared & Analyzed: 07/22/10						
2,4-D	1108	250	µg/Kg	1000		110.8	40-140			
2,4-DB	1213	250	µg/Kg	1000		121.3	40-140			
2,4,5-TP (Silvex)	1097	250	µg/Kg	1000		109.7	40-140			
2,4,5-T	1125	250	µg/Kg	1000		112.5	40-140			
Dalapon	1170	250	µg/Kg	1000		117	40-140			
Dicamba	1083	250	µg/Kg	1000		108.3	40-140			
Dichloroprop	1102	250	µg/Kg	1000		110.2	40-140			
Dinoseb	1333	250	µg/Kg	1000		133.3	40-140			
Surrogate: DCMA	*77*		µg/Kg			77	40-140			
BSD (V0722-BSD1)				Prepared & Analyzed: 07/22/10						
2,4-D	1109	250	µg/Kg	1000		110.9	40-140			
2,4-DB	1231	250	µg/Kg	1000		123.1	40-140			
2,4,5-TP (Silvex)	1113	250	µg/Kg	1000		111.3	40-140			
2,4,5-T	1128	250	µg/Kg	1000		112.8	40-140			
Dalapon	1254	250	µg/Kg	1000		125.4	40-140			
Dicamba	1081	250	µg/Kg	1000		108.1	40-140			
Dichloroprop	1076	250	µg/Kg	1000		107.6	40-140			
Dinoseb	1350	250	µg/Kg	1000		135	40-140			
Surrogate: DCMA	*78*		µg/Kg			78	40-140			

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BREAKDOWN REPORT

Lab Sample ID: S000408-PEM1 **Analyzed:** 07/22/2010

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.00
Endrin [1]	2.06

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.00
Endrin [2]	1.29

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 1010 in Soil	
Flashpoint	NY,NC
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 6010B in Water	
Arsenic	NY,CT
Barium	NY,CT
Cadmium	NY,CT
Chromium	NY,CT
Lead	NY,CT
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 8081A in Soil	
Aldrin	CT,NH,NY
Aldrin [2C]	CT,NH,NY
alpha-BHC	CT,NH,NY
alpha-BHC [2C]	CT,NH,NY
beta-BHC	CT,NH,NY
beta-BHC [2C]	CT,NH,NY
delta-BHC	CT,NH,NY
delta-BHC [2C]	CT,NH,NY
gamma-BHC (Lindane)	CT,NH,NY
gamma-BHC (Lindane) [2C]	CT,NH,NY
Chlordane	CT,NH,NY
Chlordane [2C]	CT,NH,NY
4,4'-DDD	CT,NH,NY
4,4'-DDD [2C]	CT,NH,NY
4,4'-DDE	CT,NH,NY
4,4'-DDE [2C]	CT,NH,NY
4,4'-DDT	CT,NH,NY
4,4'-DDT [2C]	CT,NH,NY
Dieldrin	CT,NH,NY
Dieldrin [2C]	CT,NH,NY
Endosulfan I	CT,NH,NY
Endosulfan I [2C]	CT,NH,NY
Endosulfan II	CT,NH,NY
Endosulfan II [2C]	CT,NH,NY
Endosulfan Sulfate	CT,NH,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081A in Soil	
Endosulfan Sulfate [2C]	CT,NH,NY
Endrin	CT,NH,NY
Endrin [2C]	CT,NH,NY
Endrin Aldehyde	CT,NH,NY
Endrin Aldehyde [2C]	CT,NH,NY
Heptachlor	CT,NH,NY
Heptachlor [2C]	CT,NH,NY
Heptachlor Epoxide	CT,NH,NY
Heptachlor Epoxide [2C]	CT,NH,NY
Methoxychlor	CT,NH,NY
Methoxychlor [2C]	CT,NH,NY
Toxaphene	CT,NH,NY
Toxaphene [2C]	CT,NH,NY
SW-846 8081A in Water	
Aldrin	CT,NH,NY,RI
Aldrin [2C]	CT,NH,NY,RI
alpha-BHC	CT,NH,NY,RI
alpha-BHC [2C]	CT,NH,NY,RI
beta-BHC	CT,NH,NY,RI
beta-BHC [2C]	CT,NH,NY,RI
delta-BHC	CT,NH,NY,RI
delta-BHC [2C]	CT,NH,NY,RI
gamma-BHC (Lindane)	CT,NH,NY,RI
gamma-BHC (Lindane) [2C]	CT,NH,NY,RI
Chlordane	CT,NH,NY,RI
Chlordane [2C]	CT,NH,NY,RI
4,4'-DDD	CT,NH,NY,RI
4,4'-DDD [2C]	CT,NH,NY,RI
4,4'-DDE	CT,NH,NY,RI
4,4'-DDE [2C]	CT,NH,NY,RI
4,4'-DDT	CT,NH,NY,RI
4,4'-DDT [2C]	CT,NH,NY,RI
Dieldrin	CT,NH,NY,RI
Dieldrin [2C]	CT,NH,NY,RI
Endosulfan I	CT,NH,NY,RI
Endosulfan I [2C]	CT,NH,NY,RI
Endosulfan II	CT,NH,NY,RI
Endosulfan II [2C]	CT,NH,NY,RI
Endosulfan Sulfate	CT,NH,NY,RI
Endosulfan Sulfate [2C]	CT,NH,NY,RI
Endrin	CT,NH,NY,RI
Endrin [2C]	CT,NH,NY,RI
Endrin Aldehyde	CT,NH,NY,RI
Endrin Aldehyde [2C]	CT,NH,NY,RI
Heptachlor	CT,NH,NY,RI
Heptachlor [2C]	CT,NH,NY,RI

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081A in Water	
Heptachlor Epoxide	CT,NH,NY,RI
Heptachlor Epoxide [2C]	CT,NH,NY,RI
Methoxychlor	CT,NH,NY,RI
Methoxychlor [2C]	CT,NH,NY,RI
Toxaphene	CT,NH,NY,RI
Toxaphene [2C]	CT,NH,NY,RI
SW-846 8082 in Soil	
Aroclor-1016	CT,NH,NY,NC
Aroclor-1016 [2C]	CT,NH,NY,NC
Aroclor-1221	CT,NH,NY,NC
Aroclor-1221 [2C]	CT,NH,NY,NC
Aroclor-1232	CT,NH,NY,NC
Aroclor-1232 [2C]	CT,NH,NY,NC
Aroclor-1242	CT,NH,NY,NC
Aroclor-1242 [2C]	CT,NH,NY,NC
Aroclor-1248	CT,NH,NY,NC
Aroclor-1248 [2C]	CT,NH,NY,NC
Aroclor-1254	CT,NH,NY,NC
Aroclor-1254 [2C]	CT,NH,NY,NC
Aroclor-1260	CT,NH,NY,NC
Aroclor-1260 [2C]	CT,NH,NY,NC
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC
Acrylonitrile	CT,NH,NY,NC
Benzene	CT,NH,NY,NC
Bromobenzene	NH,NY,NC
Bromodichloromethane	CT,NH,NY,NC
Bromoform	CT,NH,NY,NC
Bromomethane	CT,NH,NY,NC
2-Butanone (MEK)	CT,NH,NY,NC
n-Butylbenzene	CT,NH,NY,NC
sec-Butylbenzene	CT,NH,NY,NC
tert-Butylbenzene	CT,NH,NY,NC
Carbon Disulfide	CT,NH,NY,NC
Carbon Tetrachloride	CT,NH,NY,NC
Chlorobenzene	CT,NH,NY,NC
Chlorodibromomethane	CT,NH,NY,NC
Chloroethane	CT,NH,NY,NC
Chloroform	CT,NH,NY,NC
Chloromethane	CT,NH,NY,NC
2-Chlorotoluene	CT,NH,NY,NC
4-Chlorotoluene	CT,NH,NY,NC
Dibromomethane	NH,NY,NC
1,2-Dichlorobenzene	CT,NH,NY,NC
1,3-Dichlorobenzene	CT,NH,NY,NC
1,4-Dichlorobenzene	CT,NH,NY,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Dichlorodifluoromethane (Freon 12)	NY,NC
1,1-Dichloroethane	CT,NH,NY,NC
1,2-Dichloroethane	CT,NH,NY,NC
1,1-Dichloroethylene	CT,NH,NY,NC
cis-1,2-Dichloroethylene	CT,NH,NY,NC
trans-1,2-Dichloroethylene	CT,NH,NY,NC
1,2-Dichloropropane	CT,NH,NY,NC
1,3-Dichloropropane	NH,NY,NC
2,2-Dichloropropane	NH,NY,NC
1,1-Dichloropropene	NH,NY,NC
cis-1,3-Dichloropropene	CT,NH,NY,NC
trans-1,3-Dichloropropene	CT,NH,NY,NC
Ethylbenzene	CT,NH,NY,NC
Hexachlorobutadiene	NH,NY,NC
2-Hexanone (MBK)	CT,NH,NY,NC
Isopropylbenzene (Cumene)	CT,NH,NY,NC
Methylene Chloride	CT,NH,NY,NC
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC
Styrene	CT,NH,NY,NC
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC
Tetrachloroethylene	CT,NH,NY,NC
Toluene	CT,NH,NY,NC
1,2,4-Trichlorobenzene	NH,NY,NC
1,1,1-Trichloroethane	CT,NH,NY,NC
1,1,2-Trichloroethane	CT,NH,NY,NC
Trichloroethylene	CT,NH,NY,NC
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC
1,2,3-Trichloropropane	NH,NY,NC
1,2,4-Trimethylbenzene	CT,NH,NY,NC
1,3,5-Trimethylbenzene	CT,NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC
m+p Xylene	CT,NH,NY,NC
o-Xylene	CT,NH,NY,NC
SW-846 8270C 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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270C in Soil	
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
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

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 8270C in Soil	
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW846 9014 in Soil	
Cyanide	NY,CT,NC
SW-846 9014 in Soil	
Reactive Cyanide	NY,CT,NH
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

CHAIN OF CUSTODY RECORD

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39 Spruce Street
East longmeadow, MA 01028

10G0570

Page 1 of 1

Company Name: Northeast Utilities
Address: 107 Selden St
Berlin, CT
Attention: Daniel R. Adanti
Project Location: Berlin Settling Basin
Sampled By: Daniel R. Adanti
Telephone: 860-665-5751
Project #
Client PO# 02255163 Release 00002

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ◉ WEBSITE
Fax #
Email: adantdr@nu.com
Format: ◉ PDF ◉ EXCEL ◉ GIS ○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code
01	TP-01	7/19/2010	8:20		x	S	
02	TP-03	7/19/2010	9.15 *		x	S	
03	TP-04	7/19/2010	9:45		x	S	
04	TP-05	7/19/2010	9:30		x	S	
05	TP-07	7/19/2010	9:15		x	S	
06	DUP-1	7/19/2010	--		x	X	
	DI VIALS / ENCORE FROZEN AT:						

ANALYSIS REQUESTED

# of Containers	3	3									
** Preservation	I	I									
***Container Code	O	A									
	VOCs - 8260	Pesticides & PCBs	Ttl. & TCLP RCRA 8 Metals	SVOCs - 8270	CT ETPH	TPH 8100	Flashpoint & pH	Herbicides	Conductivity	Reactive CN and Sulfices	Ttl CN
01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
03	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
04	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
05	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
06	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: 07-15-10 10:20 SN
* See e-Mail Email 8:07/19

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/19/10	14:50
Received by: (signature)	Date/Time: 7/19/10	14:50
Relinquished by: (signature)	Date/Time: 7/19/10	6000
Received by: (signature)	Date/Time: 7-19	1900

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5-Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: CT DEP RSRs - RES DEC, I/C DEC, GA PMC, GB PMC
RCP Data Required
Other:

Is your project MCP or RCP ?
○ MCP Form Required
◉ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Holly Folsom

From: adantdr@nu.com
Sent: Monday, July 19, 2010 3:47 PM
To: Holly L. Folsom
Subject: Samples Submitted 7/19/2010

Holly -

I believe one of the samples on the chain of custody for the Settling Basin project in Berlin, CT did not have a time listed. TP-03 was sampled at 9:15 AM on 7/19/2010. Can you please make sure this is listed correctly. Thanks.

- Dan



Daniel R. Adanti
Northeast Utilities Service Company
Environmental & Property Management
Office: 860.665.5751
Cell: 860.839.4798
Fax: 860.665.3777 ********** This e-mail, including any files or attachments transmitted with it, is confidential and/or proprietary and is intended for a specific purpose and for use only by the individual or entity to whom it is addressed. Any disclosure, copying or distribution of this e-mail or the taking of any action based on its contents, other than for its intended purpose, is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete it from your system. Any views or opinions expressed in this e-mail are not necessarily those of Northeast Utilities, its subsidiaries and affiliates (NU). E-mail transmission cannot be guaranteed to be error-free or secure or free from viruses, and NU disclaims all liability for any resulting damage, errors, or omissions. **********

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East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Northeast RECEIVED BY: RB DATE: 7-19

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? Yes (No)
If not, explain: vials TP-02 should be TP-03? → Yes, per Dan A. HF 7/21

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No

Temperature °C by Temp blank 2.5 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	18
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	18	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 6
Bisulfate _____ # DI Water 12
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-19-10 18:29 IN

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

D:\HPCHEM\1\DATA\072210\A0722032.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/22/10
Data File Name	A0722032.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.16	334143	361250	-8
c - 10	1.53	340422	361250	-6
c - 12	2.27	348968	361250	-3
c - 14	2.95	361602	361250	0
c - 16	3.56	374075	361250	4
c - 18	4.16	378153	361250	5
o-Terphenyl	4.42	427955	361250	
c - 20	4.70	375461	361250	4
c - 22	5.18	362807	361250	0
c - 24	5.61	372276	361250	3
c - 26	6.00	372331	361250	3
c - 28	6.36	367256	361250	2
c - 30	6.69	376916	361250	4
c - 32	7.00	356860	361250	-1
c - 34	7.30	360947	361250	0
c - 36	7.59	336543	361250	-7

* One compound allowed %D </= 50%

Samples

10G0588-04
10G0588-05
10G0570-02@5X
10G0570-04@5X
10G0570-01

CT

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc. ***Client:*** Contest Analytical

Project Location: ***Project #:*** 10G0570

Laboratory Sample ID(s): 10G0570-01 through 10G0570-06 ***Sampling Date(s):*** 7/19/10

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8151

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 (X) No[1] ( )
1A	Were the method specified preservation and holding time requirements met?	Yes (X) No[1] ( )
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[1] ( ) NA (X)
2	Were all samples received by the laboratory in a condition consistent with that described on the chain-of eustody document (s)?	Yes (X) No[1] ( )
3	Were samples received at an appropriate temperature (<6° C)?	Yes (X) No[1] ( ) NA ( )
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes (X) No[1] ( )
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes (X) No[1] ( ) Yes (X) No[1] ( )
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[1] (X)
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ( ) No[1] (X)

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:** Laboratory Director

Printed Name: Richard Warila Date: 7/23/2010

Name of Laboratory New England Testing Laboratory

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

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Northeast Utilities

Project Location: Berlin Settling Basin

Project Number: 10G0570

Laboratory Sample ID(s):

10G0570-01 thru 10G0570-06

Sample Date(s):

07/19/2010

List RCP Methods Used:

CTDEP ETPH, SW-846 1311, SW-846 6010B, SW-846 7470A, SW-846 7471A, SW-846 8081A, SW-846 8082, SW-846 8151, SW-846 8260B, SW-846 8270C, SW846 9014

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:** Laboratory Manager

Printed Name: Daren J. Damboragian **Date:** 07/27/10

Name of Laboratory: Con-Test Analytical Laboratory

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

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August 6, 2010

Dan Adanti
Northeast Utilities
P.O. Box 270
Hartford, CT 06141

Project Location: Berlin Settling Basin
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10H0031

Enclosed are results of analyses for samples received by the laboratory on July 30, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Dan Adanti

REPORT DATE: 8/6/2010

PURCHASE ORDER NUMBER: 02255163 REL 00002

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10H0031

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Basin

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TP-01	10H0031-01	Soil		SW-846 1312	
				SW-846 6020A	
TP-03	10H0031-02	Soil		SW-846 1312	
				SW-846 6020A	
Dup-1	10H0031-03	Soil		SW-846 1312	
				SW-846 6020A	

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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.

For method 6020, only lead results were requested and reported.

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10H0031

Date Received: 7/30/2010

Field Sample #: TP-01 | Sampled: 7/19/2010 08:20

Sample ID: 10H0031-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	14	5.0	µg/L	5		SW-846 6020A	8/5/10	8/5/10 16:16	KSH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10H0031

Date Received: 7/30/2010

Field Sample #: TP-03 | Sampled: 7/19/2010 09:15

Sample ID: 10H0031-02

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	34	5.0	µg/L	5		SW-846 6020A	8/5/10	8/5/10 16:09	KSH

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Project Location: Berlin Settling Basin | Sample Description: | Work Order: 10H0031

Date Received: 7/30/2010

Field Sample #: Dup-1 | Sampled: 7/19/2010 00:00

Sample ID: 10H0031-03

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	14	5.0	µg/L	5		SW-846 6020A	8/5/10	8/5/10 16:13	KSH

con-test® ANALYTICAL LABORATORY
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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6020A **Leachates were extracted on 8/4/2010 per SW-846 1312 in Batch B017259**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10H0031-01 [TP-01]	B017272	50.0	50.0	08/05/10
10H0031-02 [TP-03]	B017272	50.0	50.0	08/05/10
10H0031-03 [Dup-1]	B017272	50.0	50.0	08/05/10

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QUALITY CONTROL

SPLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B017272 - SW-846 3010A										
Blank (B017272-BLK1)				Prepared & Analyzed: 08/05/10						
Lead	ND	5.0	µg/L							
LCS (B017272-BS1)				Prepared & Analyzed: 08/05/10						
Lead	520	10	µg/L	500		104	80-120			
LCS Dup (B017272-BSD1)				Prepared & Analyzed: 08/05/10						
Lead	512	10	µg/L	500		102	80-120	1.51	20	
Matrix Spike (B017272-MS1)		**Source: 10H0031-01**		Prepared & Analyzed: 08/05/10						
Lead	532	10	µg/L	500	14.4	104	75-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

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CHAIN OF CUSTODY RECORD

39 Spruce Street East Longmeadow, MA 01028

Page 1 of 1

Company Name: Northeast Utilities — Telephone: 860-665-5751 — Project #: — Client PO#: 02255163 Release 00002

Address: 107 Selden St, Berlin, CT

Attention: Daniel R. Adanti

Project Location: Berlin Settling Basin

Sampled By: Daniel R. Adanti

DATA DELIVERY (check all that apply): ○ FAX ◉ EMAIL ◉ WEBSITE

Fax #:

Email: adantdr@nu.com

Format: ◉ PDF ◉ EXCEL ◉ GIS ○ OTHER

○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes) ○ yes ____ proposal date

Con-Test Lab ID (Lab Use Only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	"Matrix Code"	Done Code	ANALYSIS REQUESTED: VOCs - 8260	Pesticides & PCBs	Ttl. & TCLP RCRA 8 Metals	SVOCs - 8270	CT ETPH	TPH 8100	Flashpoint & pH	Herbicides	Conductivity	Reactive CN and Sulfices	Ttl CN	# of Containers	***Container Code	**Preservation
-01	TP-01	7/19/2010	8:20	X	G	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	A	I
-02	TP-03	7/19/2010	9:15 *	X	G	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	A	I
	TP-04	7/19/2010	9:45	X	G	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	A	I
	TP-05	7/19/2010	9:30	X	G	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	A	I
	TP-07	7/19/2010	9:15	X	G	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	A	I
-03	DUP-1	7/19/2010	--	X	G	X		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	A	I
	DI VIALS / ENCORE FROZEN AT:																				

Dissolved Metals: ○ Field Filtered ○ Lab to Filter

***Cont. Code: A=amber glass G=glass P=plastic ST=sterile V= vial S=summa can T=tedlar bag O=Other

**Preservation: I = iced H = HCl M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium bisulfate X = Na hydroxide T = Na thiosulfate O = Other____

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

*Matrix Code: GW= groundwater WW= wastewater DW= drinking water A = air S = soil/solid SL = sludge O = other____

Comments: * See attached Email 8/3/10 — SPLP Lead per Dan A. 8/4/10

Relinquished by: (signature) — Date/Time: 7/19/10 1450 — Received by: (signature)

Relinquished by: (signature) — Date/Time: 7/19/10 1700 — Received by: (signature)

Relinquished by: (signature) — Date/Time: 7/19/10 — Received by: (signature) — Date/Time: 7-20-10

Turnaround ††: ☐ 7-Day ☐ 10-Day ☐ Other 5 Day ☐ RUSH † ☐ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 14-Day ☐ Require lab approval

Detection Limit Requirements — Massachusetts: ____ Connecticut: ☐ CT DEP RSRs - RES DEC, I/C DEC, GA PMC, GB PMC ☐ RCP Data Required ☐ Other:

Is your project MCP or RCP ?
○ MCP Form Required
◉ RCP Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Holly Folsom

From: adantdr@nu.com
Sent: Monday, July 19, 2010 3:47 PM
To: Holly L. Folsom
Subject: Samples Submitted 7/19/2010

Holly -

I believe one of the samples on the chain of custody for the Settling Basin project in Berlin, CT did not have a time listed. TP-03 was sampled at 9:15 AM on 7/19/2010. Can you please make sure this is listed correctly. Thanks.

- Dan



Daniel R. Adanti
Northeast Utilities Service Company
Environmental & Property Management
Office: 860.665.5751
Cell: 860.839.4798
Fax: 860.665.3777 ********** This e-mail, including any files or attachments transmitted with it, is confidential and/or proprietary and is intended for a specific purpose and for use only by the individual or entity to whom it is addressed. Any disclosure, copying or distribution of this e-mail or the taking of any action based on its contents, other than for its intended purpose, is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete it from your system. Any views or opinions expressed in this e-mail are not necessarily those of Northeast Utilities, its subsidiaries and affiliates (NU). E-mail transmission cannot be guaranteed to be error-free or secure or free from viruses, and NU disclaims all liability for any resulting damage, errors, or omissions. **********

www.contestlabs.com

con-test ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Northeast RECEIVED BY: RB DATE: 7-19

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? Yes (No)
If not, explain: vials TP-02 should be TP-03? → Yes, pm Dan A. HF 7/21

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No

Temperature °C by Temp blank 2.5 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	18
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	18	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 6
Bisulfate _____ # DI Water 12
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-19-10 18:29 IN

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Holly Folsom

From: adantdr@nu.com
Sent: Friday, July 30, 2010 11:34 AM
To: Holly L. Folsom
Subject: Sample Activation - Work Order 10G0570

Holly -

I would like to activate samples TP-01, DUP-1 and TP-03 from work order 10G0570 for SPLP lead on a standard turn basis. Thanks.

- Dan

Daniel R. Adanti
Northeast Utilities Service Company
Environmental & Property Management
Office: 860.665.5751
Cell: 860.839.4798
Fax: 860.665.3777 ********** This e-mail, including any files or attachments transmitted with it, is confidential and/or proprietary and is intended for a specific purpose and for use only by the individual or entity to whom it is addressed. Any disclosure, copying or distribution of this e-mail or the taking of any action based on its contents, other than for its intended purpose, is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete it from your system. Any views or opinions expressed in this e-mail are not necessarily those of Northeast Utilities, its subsidiaries and affiliates (NU). E-mail transmission cannot be guaranteed to be error-free or secure or free from viruses, and NU disclaims all liability for any resulting damage, errors, or omissions. **********

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 28, 2011

Chris Soroka
Northeast Utilities
P.O. Box 270
Hartford, CT 06141

Project Location: Berlin Settling Basin (Berlin, CT)
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11L0720

Enclosed are results of analyses for samples received by the laboratory on December 19, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Chris Soroka

REPORT DATE: 12/28/2011

PURCHASE ORDER NUMBER: 02261127

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11L0720

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Basin (Berlin, CT)

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WSE-1 (0.5-1.0)	11L0720-01	Soil		SM 2540G	
				SW-846 8082A	
WSE-1 (2.0-2.5)	11L0720-02	Soil		SM 2540G	
				SW-846 8082A	
WSE-2 (1.0-1.5)	11L0720-03	Soil		SM 2540G	
				SW-846 8082A	
WSE-2 (3.0-3.5)	11L0720-04	Soil		SM 2540G	
				SW-846 8082A	
WSE-3 (0.0-0.5)	11L0720-05	Soil		SM 2540G	
				SW-846 8082A	
WSE-3 (6.5-7.0)	11L0720-06	Soil		SM 2540G	
				SW-846 8082A	
WSE-4 (0.5-1.0)	11L0720-07	Soil		SM 2540G	
				SW-846 8082A	
WSE-4 (2.5-3.0)	11L0720-08	Soil		SM 2540G	
				SW-846 8082A	
WSE-5 (0.0-0.5)	11L0720-09	Soil		SM 2540G	
				SW-846 8082A	
WSE-5 (3.0-3.5)	11L0720-10	Soil		SM 2540G	
				SW-846 8082A	
WSE-6 (0.5-1.0)	11L0720-11	Soil		SM 2540G	
				SW-846 8082A	
WSE-6 (2.5-3.0)	11L0720-12	Soil		SM 2540G	
				SW-846 8082A	
WSE-7 (1.0-1.5)	11L0720-13	Soil		SM 2540G	
				SW-846 8082A	
WSE-7 (3.5-4.0)	11L0720-14	Soil		SM 2540G	
				SW-846 8082A	
WSE-8 (2.5-3.0)	11L0720-15	Soil		SM 2540G	
				SW-846 8082A	
WSE-8 (3.5-4.0)	11L0720-16	Soil		SM 2540G	
				SW-846 8082A	
WSE-9 (0.0-0.5)	11L0720-17	Soil		SM 2540G	
				SW-846 8082A	
WSE-9 (1.0-1.5)	11L0720-18	Soil		SM 2540G	
				SW-846 8082A	
WSE-10 (1.0-1.5)	11L0720-19	Soil		SM 2540G	
				SW-846 8082A	
WSE-10 (3.0-3.5)	11L0720-20	Soil		SM 2540G	
				SW-846 8082A	

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Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Chris Soroka

REPORT DATE: 12/28/2011

PURCHASE ORDER NUMBER: 02261127

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11L0720

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Basin (Berlin, CT)

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WSE-11 (1.5-2.0)	11L0720-21	Soil		SM 2540G	
				SW-846 8082A	
WSE-11 (3.0-3.5)	11L0720-22	Soil		SM 2540G	
				SW-846 8082A	
WSE-12 (2.0-2.5)	11L0720-23	Soil		SM 2540G	
				SW-846 8082A	
WSE-12 (3.5-4.0)	11L0720-24	Soil		SM 2540G	
				SW-846 8082A	
WSE-13 (1.5-2.0)	11L0720-25	Soil		SM 2540G	
				SW-846 8082A	
WSE-13 (3.5-4.0)	11L0720-26	Soil		SM 2540G	
				SW-846 8082A	
WSE-14 (1.5-2.0)	11L0720-27	Soil		SM 2540G	
				SW-846 8082A	
WSE-14 (3.0-3.5)	11L0720-28	Soil		SM 2540G	
				SW-846 8082A	
WSE-15 (1.0-1.5)	11L0720-29	Soil		SM 2540G	
				SW-846 8082A	
WSE-15 (3.5-4.0)	11L0720-30	Soil		SM 2540G	
				SW-846 8082A	
DUP-1	11L0720-31	Soil		SM 2540G	
				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.

SW-846 8082A

Qualifications:

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-1260 [2C]

B043289-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

11L0720-04[WSE-2 (3.0-3.5)], 11L0720-06[WSE-3 (6.5-7.0)], 11L0720-07[WSE-4 (0.5-1.0)], 11L0720-11[WSE-6 (0.5-1.0)], 11L0720-27[WSE-14 (1.5-2.0)], 11L0720-29[WSE-15 (1.0-1.5)]

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-1 (0.5-1.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1221 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1232 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1242 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1248 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1254 [2]	1.1	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1260 [2]	2.8	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1262 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC
Aroclor-1268 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.3	30-150		12/23/11 13:01
Decachlorobiphenyl [2]	75.4	30-150		12/23/11 13:01
Tetrachloro-m-xylene [1]	95.9	30-150		12/23/11 13:01
Tetrachloro-m-xylene [2]	105	30-150		12/23/11 13:01

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-1 (0.5-1.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-1 (2.0-2.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/21/11	12/22/11 22:31	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.9	30-150		12/22/11 22:31
Decachlorobiphenyl [2]	98.0	30-150		12/22/11 22:31
Tetrachloro-m-xylene [1]	88.9	30-150		12/22/11 22:31
Tetrachloro-m-xylene [2]	98.6	30-150		12/22/11 22:31

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-1 (2.0-2.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-2 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1254 [2]	3.4	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1260 [2]	4.6	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 13:14	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	79.4	30-150		12/23/11 13:14
Decachlorobiphenyl [2]	91.6	30-150		12/23/11 13:14
Tetrachloro-m-xylene [1]	83.3	30-150		12/23/11 13:14
Tetrachloro-m-xylene [2]	91.0	30-150		12/23/11 13:14

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-2 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.5		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-2 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1221 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1232 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1242 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1248 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1254 [2]	8.4	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1260 [2]	14	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1262 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC
Aroclor-1268 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/21/11	12/23/11 13:27	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/23/11 13:27
Decachlorobiphenyl [2]	*	30-150	S-01	12/23/11 13:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/23/11 13:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/23/11 13:27

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-2 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-3 (0.0-0.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 13:40	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.2	30-150		12/23/11 13:40
Decachlorobiphenyl [2]	93.2	30-150		12/23/11 13:40
Tetrachloro-m-xylene [1]	103	30-150		12/23/11 13:40
Tetrachloro-m-xylene [2]	115	30-150		12/23/11 13:40

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-3 (0.0-0.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-3 (6.5-7.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1221 [1]	ND	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1232 [1]	ND	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1242 [1]	ND	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1248 [1]	ND	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1254 [2]	160	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1260 [2]	390	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1262 [1]	ND	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC
Aroclor-1268 [1]	ND	49	mg/Kg dry	2000		SW-846 8082A	12/21/11	12/23/11 13:53	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/23/11 13:53
Decachlorobiphenyl [2]	*	30-150	S-01	12/23/11 13:53
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/23/11 13:53
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/23/11 13:53

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-3 (6.5-7.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-4 (0.5-1.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1221 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1232 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1242 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1248 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1254 [2]	3.2	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1260 [2]	6.9	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1262 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC
Aroclor-1268 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:06	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/23/11 14:06
Decachlorobiphenyl [2]	*	30-150	S-01	12/23/11 14:06
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/23/11 14:06
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/23/11 14:06

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-4 (0.5-1.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.4		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-4 (2.5-3.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1242 [1]	ND	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1254 [2]	2.0	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1260 [2]	4.1	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg dry	20		SW-846 8082A	12/21/11	12/23/11 14:19	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.9	30-150		12/23/11 14:19
Decachlorobiphenyl [2]	102	30-150		12/23/11 14:19
Tetrachloro-m-xylene [1]	99.5	30-150		12/23/11 14:19
Tetrachloro-m-xylene [2]	111	30-150		12/23/11 14:19

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-4 (2.5-3.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.7		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-5 (0.0-0.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1254 [2]	0.28	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1260 [2]	0.62	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:32	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	84.6	30-150		12/23/11 14:32
Decachlorobiphenyl [2]	107	30-150		12/23/11 14:32
Tetrachloro-m-xylene [1]	87.2	30-150		12/23/11 14:32
Tetrachloro-m-xylene [2]	94.8	30-150		12/23/11 14:32

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-5 (0.0-0.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.8		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-5 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/21/11	12/23/11 14:45	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.3	30-150		12/23/11 14:45
Decachlorobiphenyl [2]	94.6	30-150		12/23/11 14:45
Tetrachloro-m-xylene [1]	107	30-150		12/23/11 14:45
Tetrachloro-m-xylene [2]	118	30-150		12/23/11 14:45

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-5 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-6 (0.5-1.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1254 [2]	4.3	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1260 [2]	8.5	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/21/11	12/23/11 14:58	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/23/11 14:58
Decachlorobiphenyl [2]	*	30-150	S-01	12/23/11 14:58
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/23/11 14:58
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/23/11 14:58

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-6 (0.5-1.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.1		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-6 (2.5-3.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1260 [2]	0.36	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 6:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		12/23/11 6:46
Decachlorobiphenyl [2]	102	30-150		12/23/11 6:46
Tetrachloro-m-xylene [1]	105	30-150		12/23/11 6:46
Tetrachloro-m-xylene [2]	111	30-150		12/23/11 6:46

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-6 (2.5-3.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-7 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.1	30-150		12/23/11 7:00
Decachlorobiphenyl [2]	78.5	30-150		12/23/11 7:00
Tetrachloro-m-xylene [1]	79.3	30-150		12/23/11 7:00
Tetrachloro-m-xylene [2]	85.0	30-150		12/23/11 7:00

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-7 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-7 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.7	30-150		12/23/11 7:13
Decachlorobiphenyl [2]	96.3	30-150		12/23/11 7:13
Tetrachloro-m-xylene [1]	98.0	30-150		12/23/11 7:13
Tetrachloro-m-xylene [2]	105	30-150		12/23/11 7:13

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-7 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.6		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-8 (2.5-3.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-15

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.7	30-150		12/23/11 7:25
Decachlorobiphenyl [2]	75.6	30-150		12/23/11 7:25
Tetrachloro-m-xylene [1]	76.9	30-150		12/23/11 7:25
Tetrachloro-m-xylene [2]	83.1	30-150		12/23/11 7:25

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-8 (2.5-3.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-8 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-16

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 7:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.2	30-150		12/23/11 7:38
Decachlorobiphenyl [2]	87.3	30-150		12/23/11 7:38
Tetrachloro-m-xylene [1]	89.5	30-150		12/23/11 7:38
Tetrachloro-m-xylene [2]	94.6	30-150		12/23/11 7:38

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-8 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-9 (0.0-0.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-17

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1221 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1232 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1242 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1248 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1254 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1260 [2]	3.8	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1262 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB
Aroclor-1268 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.8	30-150		12/23/11 12:18
Decachlorobiphenyl [2]	86.8	30-150		12/23/11 12:18
Tetrachloro-m-xylene [1]	81.5	30-150		12/23/11 12:18
Tetrachloro-m-xylene [2]	92.4	30-150		12/23/11 12:18

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-9 (0.0-0.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.8		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-9 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-18

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.1	30-150		12/23/11 8:04
Decachlorobiphenyl [2]	86.5	30-150		12/23/11 8:04
Tetrachloro-m-xylene [1]	90.4	30-150		12/23/11 8:04
Tetrachloro-m-xylene [2]	96.6	30-150		12/23/11 8:04

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-9 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-10 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-19

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1221 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1232 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1242 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1248 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1254 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1260 [2]	4.1	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1262 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB
Aroclor-1268 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	75.4	30-150		12/23/11 12:31
Decachlorobiphenyl [2]	73.7	30-150		12/23/11 12:31
Tetrachloro-m-xylene [1]	70.7	30-150		12/23/11 12:31
Tetrachloro-m-xylene [2]	81.8	30-150		12/23/11 12:31

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-10 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.1		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-10 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-20

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1260 [2]	0.53	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 8:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.5	30-150		12/23/11 8:29
Decachlorobiphenyl [2]	95.8	30-150		12/23/11 8:29
Tetrachloro-m-xylene [1]	98.1	30-150		12/23/11 8:29
Tetrachloro-m-xylene [2]	104	30-150		12/23/11 8:29

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-10 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-11 (1.5-2.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-21

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1221 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1232 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1242 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1248 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1254 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1260 [2]	3.6	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1262 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB
Aroclor-1268 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 12:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.4	30-150		12/23/11 12:44
Decachlorobiphenyl [2]	85.5	30-150		12/23/11 12:44
Tetrachloro-m-xylene [1]	81.2	30-150		12/23/11 12:44
Tetrachloro-m-xylene [2]	92.1	30-150		12/23/11 12:44

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-11 (1.5-2.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-11 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-22

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1260 [2]	0.12	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.2	30-150		12/23/11 9:20
Decachlorobiphenyl [2]	86.8	30-150		12/23/11 9:20
Tetrachloro-m-xylene [1]	88.3	30-150		12/23/11 9:20
Tetrachloro-m-xylene [2]	96.1	30-150		12/23/11 9:20

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-11 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-22

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.4		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-12 (2.0-2.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-23

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag		
Decachlorobiphenyl [1]	79.6	30-150		12/23/11 9:33	
Decachlorobiphenyl [2]	77.7	30-150		12/23/11 9:33	
Tetrachloro-m-xylene [1]	82.5	30-150		12/23/11 9:33	
Tetrachloro-m-xylene [2]	88.3	30-150		12/23/11 9:33	

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-12 (2.0-2.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-12 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-24

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 9:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.0	30-150		12/23/11 9:45
Decachlorobiphenyl [2]	85.8	30-150		12/23/11 9:45
Tetrachloro-m-xylene [1]	91.4	30-150		12/23/11 9:45
Tetrachloro-m-xylene [2]	97.8	30-150		12/23/11 9:45

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-12 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-24

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-13 (1.5-2.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-25

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1248 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1254 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1260 [2]	2.2	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	10		SW-846 8082A	12/22/11	12/23/11 12:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.7	30-150		12/23/11 12:57
Decachlorobiphenyl [2]	83.9	30-150		12/23/11 12:57
Tetrachloro-m-xylene [1]	85.5	30-150		12/23/11 12:57
Tetrachloro-m-xylene [2]	93.5	30-150		12/23/11 12:57

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-13 (1.5-2.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-25

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.2		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-13 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-26

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1254 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1260 [2]	4.4	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.9	30-150		12/23/11 13:09
Decachlorobiphenyl [2]	90.0	30-150		12/23/11 13:09
Tetrachloro-m-xylene [1]	85.9	30-150		12/23/11 13:09
Tetrachloro-m-xylene [2]	97.1	30-150		12/23/11 13:09

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-13 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-26

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-14 (1.5-2.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-27

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1260 [2]	1.6	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	12/22/11	12/23/11 13:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/23/11 13:22
Decachlorobiphenyl [2]	*	30-150	S-01	12/23/11 13:22
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/23/11 13:22
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/23/11 13:22

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-14 (1.5-2.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-27

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-14 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-28

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1254 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1260 [2]	3.7	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	12/22/11	12/23/11 13:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.2	30-150		12/23/11 13:35
Decachlorobiphenyl [2]	95.2	30-150		12/23/11 13:35
Tetrachloro-m-xylene [1]	89.9	30-150		12/23/11 13:35
Tetrachloro-m-xylene [2]	102	30-150		12/23/11 13:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-14 (3.0-3.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-28

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-15 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-29

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1221 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1232 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1242 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1248 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1254 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1260 [2]	18	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1262 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB
Aroclor-1268 [1]	ND	2.4	mg/Kg dry	100		SW-846 8082A	12/22/11	12/23/11 13:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/23/11 13:47
Decachlorobiphenyl [2]	*	30-150	S-01	12/23/11 13:47
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/23/11 13:47
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/23/11 13:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-15 (1.0-1.5) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-29

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-15 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-30

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1260 [2]	0.14	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		12/23/11 11:02
Decachlorobiphenyl [2]	94.8	30-150		12/23/11 11:02
Tetrachloro-m-xylene [1]	101	30-150		12/23/11 11:02
Tetrachloro-m-xylene [2]	108	30-150		12/23/11 11:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: WSE-15 (3.5-4.0) Sampled: 12/19/2011 00:00

Sample ID: 11L0720-30

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.8		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: DUP-1 Sampled: 12/19/2011 00:00

Sample ID: 11L0720-31

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1260 [2]	0.51	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/22/11	12/23/11 11:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		12/23/11 11:15
Decachlorobiphenyl [2]	101	30-150		12/23/11 11:15
Tetrachloro-m-xylene [1]	105	30-150		12/23/11 11:15
Tetrachloro-m-xylene [2]	112	30-150		12/23/11 11:15

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 11L0720

Date Received: 12/19/2011

Field Sample #: DUP-1 Sampled: 12/19/2011 00:00

Sample ID: 11L0720-31

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	12/21/11	12/22/11 12:33	VAF

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11L0720-01 [WSE-1 (0.5-1.0)]	B043288	12/21/11
11L0720-02 [WSE-1 (2.0-2.5)]	B043288	12/21/11
11L0720-03 [WSE-2 (1.0-1.5)]	B043288	12/21/11
11L0720-04 [WSE-2 (3.0-3.5)]	B043288	12/21/11
11L0720-05 [WSE-3 (0.0-0.5)]	B043288	12/21/11
11L0720-06 [WSE-3 (6.5-7.0)]	B043288	12/21/11
11L0720-07 [WSE-4 (0.5-1.0)]	B043288	12/21/11
11L0720-08 [WSE-4 (2.5-3.0)]	B043288	12/21/11
11L0720-09 [WSE-5 (0.0-0.5)]	B043288	12/21/11
11L0720-10 [WSE-5 (3.0-3.5)]	B043288	12/21/11
11L0720-11 [WSE-6 (0.5-1.0)]	B043288	12/21/11
11L0720-12 [WSE-6 (2.5-3.0)]	B043288	12/21/11
11L0720-13 [WSE-7 (1.0-1.5)]	B043288	12/21/11
11L0720-14 [WSE-7 (3.5-4.0)]	B043288	12/21/11
11L0720-15 [WSE-8 (2.5-3.0)]	B043288	12/21/11
11L0720-16 [WSE-8 (3.5-4.0)]	B043288	12/21/11
11L0720-17 [WSE-9 (0.0-0.5)]	B043288	12/21/11
11L0720-18 [WSE-9 (1.0-1.5)]	B043288	12/21/11
11L0720-19 [WSE-10 (1.0-1.5)]	B043288	12/21/11
11L0720-20 [WSE-10 (3.0-3.5)]	B043288	12/21/11
11L0720-21 [WSE-11 (1.5-2.0)]	B043288	12/21/11
11L0720-22 [WSE-11 (3.0-3.5)]	B043288	12/21/11
11L0720-23 [WSE-12 (2.0-2.5)]	B043288	12/21/11
11L0720-24 [WSE-12 (3.5-4.0)]	B043288	12/21/11
11L0720-25 [WSE-13 (1.5-2.0)]	B043288	12/21/11
11L0720-26 [WSE-13 (3.5-4.0)]	B043288	12/21/11
11L0720-27 [WSE-14 (1.5-2.0)]	B043288	12/21/11
11L0720-28 [WSE-14 (3.0-3.5)]	B043288	12/21/11
11L0720-29 [WSE-15 (1.0-1.5)]	B043288	12/21/11
11L0720-30 [WSE-15 (3.5-4.0)]	B043288	12/21/11
11L0720-31 [DUP-1]	B043288	12/21/11

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11L0720-01 [WSE-1 (0.5-1.0)]	B043282	10.1	10.0	12/21/11
11L0720-02 [WSE-1 (2.0-2.5)]	B043282	10.2	10.0	12/21/11
11L0720-03 [WSE-2 (1.0-1.5)]	B043282	10.0	10.0	12/21/11
11L0720-04 [WSE-2 (3.0-3.5)]	B043282	10.0	10.0	12/21/11
11L0720-05 [WSE-3 (0.0-0.5)]	B043282	10.1	10.0	12/21/11
11L0720-06 [WSE-3 (6.5-7.0)]	B043282	10.2	10.0	12/21/11
11L0720-07 [WSE-4 (0.5-1.0)]	B043282	10.0	10.0	12/21/11
11L0720-08 [WSE-4 (2.5-3.0)]	B043282	10.0	10.0	12/21/11
11L0720-09 [WSE-5 (0.0-0.5)]	B043282	10.1	10.0	12/21/11
11L0720-10 [WSE-5 (3.0-3.5)]	B043282	10.2	10.0	12/21/11
11L0720-11 [WSE-6 (0.5-1.0)]	B043282	10.1	10.0	12/21/11

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11L0720-12 [WSE-6 (2.5-3.0)]	B043289	10.2	10.0	12/22/11
11L0720-13 [WSE-7 (1.0-1.5)]	B043289	10.0	10.0	12/22/11
11L0720-14 [WSE-7 (3.5-4.0)]	B043289	10.1	10.0	12/22/11

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11L0720-15 [WSE-8 (2.5-3.0)]	B043289	10.0	10.0	12/22/11
11L0720-16 [WSE-8 (3.5-4.0)]	B043289	10.3	10.0	12/22/11
11L0720-17 [WSE-9 (0.0-0.5)]	B043289	10.2	10.0	12/22/11
11L0720-18 [WSE-9 (1.0-1.5)]	B043289	10.1	10.0	12/22/11
11L0720-19 [WSE-10 (1.0-1.5)]	B043289	10.1	10.0	12/22/11
11L0720-20 [WSE-10 (3.0-3.5)]	B043289	10.3	10.0	12/22/11
11L0720-21 [WSE-11 (1.5-2.0)]	B043289	10.2	10.0	12/22/11
11L0720-22 [WSE-11 (3.0-3.5)]	B043289	10.1	10.0	12/22/11
11L0720-23 [WSE-12 (2.0-2.5)]	B043289	10.1	10.0	12/22/11
11L0720-24 [WSE-12 (3.5-4.0)]	B043289	10.2	10.0	12/22/11
11L0720-25 [WSE-13 (1.5-2.0)]	B043289	10.1	10.0	12/22/11
11L0720-26 [WSE-13 (3.5-4.0)]	B043289	10.0	10.0	12/22/11
11L0720-27 [WSE-14 (1.5-2.0)]	B043289	10.3	10.0	12/22/11
11L0720-28 [WSE-14 (3.0-3.5)]	B043289	10.0	10.0	12/22/11
11L0720-29 [WSE-15 (1.0-1.5)]	B043289	10.0	10.0	12/22/11
11L0720-30 [WSE-15 (3.5-4.0)]	B043289	10.1	10.0	12/22/11
11L0720-31 [DUP-1]	B043289	10.0	10.0	12/22/11

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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 B043282 - SW-846 3546										
Blank (B043282-BLK1)				Prepared: 12/21/11 Analyzed: 12/22/11						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.153*		mg/Kg wet	0.200		76.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.135*		mg/Kg wet	0.200		67.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		71.8	30-150			
LCS (B043282-BS1)				Prepared: 12/21/11 Analyzed: 12/22/11						
Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		72.3	40-140			
Aroclor-1016 [2C]	0.14	0.10	mg/Kg wet	0.200		71.0	40-140			
Aroclor-1260	0.15	0.10	mg/Kg wet	0.200		74.4	40-140			
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		80.0	40-140			
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg wet	0.200		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.153*		mg/Kg wet	0.200		76.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.126*		mg/Kg wet	0.200		62.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.133*		mg/Kg wet	0.200		66.5	30-150			
LCS Dup (B043282-BSD1)				Prepared: 12/21/11 Analyzed: 12/22/11						
Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		72.2	40-140	0.0900	30	
Aroclor-1016 [2C]	0.14	0.10	mg/Kg wet	0.200		71.4	40-140	0.604	30	
Aroclor-1260	0.16	0.10	mg/Kg wet	0.200		78.1	40-140	4.76	30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		83.0	40-140	3.65	30	
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg wet	0.200		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.152*		mg/Kg wet	0.200		76.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.120*		mg/Kg wet	0.200		59.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.129*		mg/Kg wet	0.200		64.7	30-150			

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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 B043289 - SW-846 3546										
Blank (B043289-BLK1)				Prepared: 12/22/11 Analyzed: 12/23/11						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.211*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.221*		mg/Kg wet	0.200		111	30-150			
LCS (B043289-BS1)				Prepared: 12/22/11 Analyzed: 12/23/11						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		112	40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		98.7	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Surrogate: Decachlorobiphenyl	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.218*		mg/Kg wet	0.200		109	30-150			
LCS Dup (B043289-BSD1)				Prepared: 12/22/11 Analyzed: 12/23/11						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		109	40-140	0.718	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		112	40-140	0.317	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		102	40-140	2.88	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		108	40-140	3.78	30	
Surrogate: Decachlorobiphenyl	*0.217*		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	*0.217*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.225*		mg/Kg wet	0.200		113	30-150			

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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 B043289 - SW-846 3546											
Matrix Spike (B043289-MS1)	**Source: 11L0720-18**			Prepared: 12/22/11 Analyzed: 12/23/11							
Aroclor-1016	0.23	0.12	mg/Kg dry	0.244	ND	94.3		40-140			
Aroclor-1016 [2C]	0.23	0.12	mg/Kg dry	0.244	ND	94.0		40-140			
Aroclor-1260	0.29	0.12	mg/Kg dry	0.244	ND	119		40-140			
Aroclor-1260 [2C]	0.32	0.12	mg/Kg dry	0.244	ND	131		40-140			
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg dry	0.244		85.6		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg dry	0.244		83.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.211*		mg/Kg dry	0.244		86.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.222*		mg/Kg dry	0.244		91.1		30-150			
Matrix Spike Dup (B043289-MSD1)	**Source: 11L0720-18**			Prepared: 12/22/11 Analyzed: 12/23/11							
Aroclor-1016	0.25	0.12	mg/Kg dry	0.242	ND	103		40-140	7.41	50	
Aroclor-1016 [2C]	0.25	0.12	mg/Kg dry	0.242	ND	103		40-140	8.31	50	
Aroclor-1260	0.31	0.12	mg/Kg dry	0.242	ND	128		40-140	6.27	50	
Aroclor-1260 [2C]	0.34	0.12	mg/Kg dry	0.242	ND	**141**	*	40-140	6.41	50	MS-22
Surrogate: Decachlorobiphenyl	*0.227*		mg/Kg dry	0.242		94.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.221*		mg/Kg dry	0.242		91.7		30-150			
Surrogate: Tetrachloro-m-xylene	*0.227*		mg/Kg dry	0.242		94.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.239*		mg/Kg dry	0.242		98.9		30-150			

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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 B043288 - % Solids										
Duplicate (B043288-DUP1)	**Source: 11L0720-20**			Prepared: 12/21/11 Analyzed: 12/22/11						
% Solids	81.0		% Wt		83.1			2.56	20	
Duplicate (B043288-DUP2)	**Source: 11L0720-12**			Prepared: 12/21/11 Analyzed: 12/22/11						
% Solids	90.8		% Wt		91.3			0.549	20	
Duplicate (B043288-DUP4)	**Source: 11L0720-30**			Prepared: 12/21/11 Analyzed: 12/22/11						
% Solids	92.7		% Wt		92.8			0.108	20	

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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
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
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.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC



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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page 1 of 4

11L0720

Company Name: Weston & Sampson - CT (for NUSCO)
Address: 273 Dividend Road
Rocky Hill, CT 06067
Attention: Laura Yellen
Project Location: Berlin Settling Basin (Berlin, CT)
Sampled By: Derek Dilaj

Telephone: (860) 513-1473
Project #: (860) 513-1483
Client PO#: 02261127

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #: sorokca@nu.com
Email: yellenl@wseinc.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection: Beginning Date/Time	Collection: Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs (8082)	# of Containers	** Preservation	***Container Code
01	WSE-1 (0.5-1.0)	12/19/11	12/19/11		x	S	U	✓	1	I	A
02	WSE-1 (2.0-2.5)	"	"					✓			
03	WSE-2 (1.0-1.5)							✓			
04	WSE-2 (3.0-3.5)							✓			
05	WSE-3 (0.0-0.5)							✓			
06	WSE-3 (6.5-7.0)							✓			
07	WSE-4 (0.5-1.0)							✓			
08	WSE-4 (2.5-3.0)							✓			
09	WSE-5 (0.0-0.5)							✓			
10	WSE-5 (3.0-3.5)							✓			

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Derek Dilaj	12/19/11
Received by: (signature) Paul Rapant 12/19/11	Date/Time: 16:10
Relinquished by: (signature) Paul Rapant 12/19/11	Date/Time: 17:10
Received by: (signature) C. Clough-Legault 4.4°C 12/19/11	Date/Time: 17:10

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5-Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: CTDEEP RSRs (incl. RDEC and GA PMC)
Other:

Is your project MCP or RCP ?
○ MCP Form Required
◉ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA Environmental Lead & Industrial Hygiene Laboratory
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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www.contestlabs.com
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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name: Weston & Sampson - CT (for NUSCO) Telephone: (860) 513-1473
Address: 273 Dividend Road Project # (860) 513-1483
Rocky Hill, CT 06067 Client PO# 02261127
Attention: Laura Yellen
Project Location: Berlin Settling Basin (Berlin, CT)
Sampled By: Derek Dilaj

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax # sorokca@nu.com
Email: yellenl@wseinc.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER_____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	PCBs (8082)
11	WSE-6 (0.5-1.0)	12/19/11	12/19/11		X	S	U	1	I	A	✓
12	WSE-6 (2.5-3.0)										✓
13	WSE-7 (1.0-1.5)										✓
14	WSE-7 (3.5-4.0)										✓
15	WSE-8 (2.5-3.0)										✓
16	WSE-8 (3.5-4.0)										✓
17	WSE-9 (0.0-0.5)										✓
18	WSE-9 (1.0-1.5)										✓
19	WSE-10 (1.0-1.5)										✓
20	WSE-10 (3.0-3.5)										✓

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
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O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Derek Dilaj	12/19/11
Received by: (signature) Paul Racicot 12/19/11	16:20
Relinquished by: (signature) Paul Racicot 12/19/11	17:10
Received by: (signature) C. Claudio-Kessell 4.4°C 12/19/11	17:10

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5-Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: CTDEEP RSRs (incl. RDEC and GA PMC)
Other:

Is your project MCP or RCP ?
○ MCP Form Required
◉ RCP Form Required
○ MA State DW Form Required PWSID # _____

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ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
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CHAIN OF CUSTODY RECORD

Company Name: Weston & Sampson - CT (for NUSCO)
Address: 273 Dividend Road
Rocky Hill, CT 06067
Attention: Laura Yellen
Project Location: Berlin Settling Basin (Berlin, CT)
Sampled By: Derek Dilaj

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Telephone: (860) 513-1473
Project # (860) 513-1483
Client PO# 02261127

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax # sorokca@nu.com
Email: yellenl@wseinc.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection: Beginning Date/Time	Collection: Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs (8082)	# of Containers	** Preservation	***Container Code
21	WSE-11 (1.5-2.0)	12/19/11	12/19/11		X	S	U	✓	1	I	A
22	WSE-11 (3.0 - 3.5)							✓			
23	WSE-12 (2.0 - 2.5)							✓			
24	WSE-12 (3.5 - 4.0)							✓			
25	WSE-13 (1.5 - 2.0)							✓			
26	WSE-13 (3.5 - 4.0)							✓			
27	WSE-14 (1.5 - 2.0)							✓			
28	WSE-14 (3.0 - 3.5)							✓			
29	WSE-15 (1.0 - 1.5)							✓			
30	WSE-15 (3.5 - 4.0)							✓			

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
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B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

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H - High; M - Medium; L - Low; C - Clean; U - Unknown

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Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5-Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
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AIHA ACCREDITED LABORATORY
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CHAIN OF CUSTODY RECORD

Page 4 of 4

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Address: 273 Dividend Road Project # (860) 513-1483
Rocky Hill, CT 06067 Client PO# 02261127
Attention: Laura Yellen
Project Location: Berlin Settling Basin (Berlin, CT)
Sampled By: Derek Dilaj

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax # sorokca@nu.com
Email: yellenl@wseinc.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs (8082)	# of Containers	** Preservation	***Container Code
31	DUP-1 (AM)	12/19/11	12/19/11		X	S	U	✓	1	I	A
32	WSF-10 (5.0-5.5)										

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
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Derek Dilaj	12/19/11
Received by: (signature)	Date/Time:
Paul Ravet 12/19/11	16:10
Relinquished by: (signature)	Date/Time:
Paul Ravet 12/19/11	17:10
Received by: (signature)	Date/Time:
C Cough-Negall 12/19/11	17:10

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5-Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: _____
_____
_____
Connecticut: CTDEEP RSRs (incl. RDEC and GA PMC)
_____
Other: _____

Is your project MCP or RCP ?
○ MCP Form Required
◉ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Weston + Sampson RECEIVED BY: C.C.S. DATE: 12/19/11

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? C.C.S. (Yes) No

If not, explain: received extra 8oz amber jar

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.4°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	32
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Northeast Utilities

Project Location: Berlin Settling Basin (Berlin, CT)

Project Number: 11L0720

Laboratory Sample ID(s):
11L0720-01 thru 11L0720-31

Sample Date(s):
12/19/2011

List RCP Methods Used:
SW-846 8082A

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:** Laboratory Director

Printed Name: Michael A. Erickson **Date:** 12/28/11

Name of Laboratory: Con-Test Analytical Laboratory

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

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January 10, 2012

Chris Soroka
Northeast Utilities
P.O. Box 270
Hartford, CT 06141

Project Location: Berlin Settling Basin (Berlin, CT)
Report Type: Final
Project Number: [none]
Laboratory Work Order Number: 12A0120

Enclosed are results of analyses for samples received by the laboratory on January 5, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Chemist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Chris Soroka

REPORT DATE: 1/10/2012

PURCHASE ORDER NUMBER: 02261127

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12A0120

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Berlin Settling Basin (Berlin, CT)

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WSE-3 (6.5-7.0)	12A0120-01	Soil		SM 2540G 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.

SW-846 8082A

Qualifications:

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

12A0120-01[WSE-3 (6.5-7.0)]

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]
12A0120-01[WSE-3 (6.5-7.0)]

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
12A0120-01[WSE-3 (6.5-7.0)]

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.



Michael A. Erickson
Laboratory Director

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 12A0120

Date Received: 1/5/2012

Field Sample #: WSE-3 (6.5-7.0) Sampled: 12/19/2011 00:00

Sample ID: 12A0120-01

Sample Matrix: Soil

Sample Flags: H-01

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1221 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1232 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1242 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1248 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1254 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1260 [2]	1000	120	mg/Kg dry	5000	O-03	SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1262 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB
Aroclor-1268 [1]	ND	120	mg/Kg dry	5000		SW-846 8082A	1/6/12	1/7/12 7:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	1/7/12 7:16
Decachlorobiphenyl [2]	*	30-150	S-01	1/7/12 7:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/7/12 7:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/7/12 7:16

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Project Location: Berlin Settling Basin (Berlin, CT) Sample Description: Work Order: 12A0120

Date Received: 1/5/2012

Field Sample #: WSE-3 (6.5-7.0) Sampled: 12/19/2011 00:00

Sample ID: 12A0120-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.5		% Wt	1		SM 2540G	1/5/12	1/6/12 14:13	VAF

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch		Date
12A0120-01 [WSE-3 (6.5-7.0)]	B043945	5.00	01/05/12

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12A0120-01 [WSE-3 (6.5-7.0)]	B043950	10.00	10.0	01/06/12

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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 B043950 - SW-846 3546										
Blank (B043950-BLK1)				Prepared & Analyzed: 01/06/12						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.217*		mg/Kg wet	0.200		108	30-150			
LCS (B043950-BS1)				Prepared & Analyzed: 01/06/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg wet	0.200		108	30-150			
LCS Dup (B043950-BSD1)				Prepared & Analyzed: 01/06/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		109	40-140	0.167	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140	0.142	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		104	40-140	1.15	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		104	40-140	0.683	30	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			

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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
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	Blank subtraction has not been performed for any samples within this report.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
O-03	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS & ACCREDIATIONS

Certified/Accredited Analyses included in this Report

Analyte	Certifications & Accrediations
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

Jim Georgantas

From: sorokca@nu.com
Sent: Thursday, January 05, 2012 2:33 PM
To: Jim Georgantas
Cc: Frank Ricciardi; John Figurelli
Subject: Lab Report 11L0720_Sample Re-Analysis

Jim

Can you please reanalyze sample WSE-3 (6.5 - 7.0) on lab report 11L0720 from the Berlin Settling Basin for PCBs (8082)? The sample may be beyond its hold time however we still want to reanalyze the sample for comparison purposes to the original sample data. Can I get a three day TAT on that?

Any questions, please let me know. Thanks.

Christopher A. Soroka, Senior Environmental Specialist
Northeast Utilities Service Company
Office: 860-665-5493, Fax: 860-665-3777, Cell: 860-989-9744

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