

# Completion of Investigation Report

Greenwich High School

Town of Greenwich, Connecticut

Project Number: 60432356

May 2, 2019

## Quality information

Prepared by



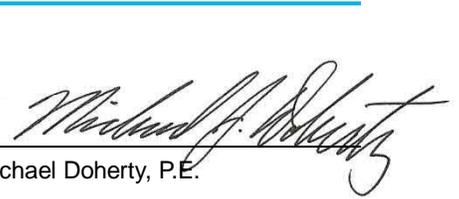
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## List of Acronyms

<b>Acronym</b>	<b>Definition</b>
AOC	Area of concern
APS	Additional polluting substances
bgs	Below ground surface
CFR	Code of Federal Regulations
COCs	Constituents of concern
CSM	Conceptual site model
DEEP	Connecticut Department of Energy and Environmental Protection
DDD	Dichlorophenyldichloroethane
DDE	Dichlorophenyldichloroethylene
DDT	Dichlorophenyltrichloroethane
DDx	Total DDT (including its metabolites, DDD and DDE)
DTC	Diversified Technology Consultants
EPA	United States Environmental Protection Agency
ESA	Environmental site assessment
ETPH	Extractable total petroleum hydrocarbons
FFS	Focused feasibility study
GWPC	Groundwater protection criteria
HHRA	Human health risk assessment
IRM	Interim remedial measure
mg/kg	Milligrams per kilogram
MISA	Music Instructional Space and Auditorium
OWS	Oil-water separator
PAHs	Polycyclic aromatic hydrocarbons
PCBs	Polychlorinated biphenyls
PMC	Pollutant mobility criteria
QC	Quality control
RAP	Remedial action plan
RCPs	Reasonable Confidence Protocols
RCSA	Regulations of Connecticut State Agencies
R DEC	Residential direct exposure criteria

RI	Remedial investigation
RSR	Connecticut Remediation Standard Regulations
R VC	Residential volatilization criteria
SCGD	Site Characterization Guidance Document
SEH	Significant environmental hazard
SLERA	Screening-level ecological risk assessment
SPLP	Synthetic precipitation leaching procedure
SVOCs	Semi-volatile organic compounds
SWPC	Surface water protection criteria
TSCA	Toxic Substances Control Act
UST	Underground storage tank
VOCs	Volatile organic compounds
VRP	Voluntary Remediation Program

## 1. Introduction

AECOM was retained by the Town of Greenwich (Town) Department of Public Works to conduct a supplemental Phase III Environmental Site Assessment (ESA) at Greenwich High School, located at 10 Hillside Road in Greenwich, Connecticut (the site). AECOM performed comprehensive field investigation activities at the site in 2011/2012, the results of which were summarized in the February 2013 Remedial Investigation (RI) Report (**Appendix A**, provided on disc). Between 2013 and 2016, the Town and AECOM worked with the Connecticut Department of Energy and Environmental Protection (DEEP) and United States Environmental Protection Agency (EPA) (collectively *the regulators*) to address perceived data gaps associated with the understanding of hydrogeologic conditions at the site. In 2017, the Town entered the site into the DEEP Voluntary Remediation Program (VRP). Subsequently, AECOM performed an evaluation of existing data at the site using DEEP's Site Characterization Guidance Document (SCGD) guidelines. Based on this evaluation, we determined that data gaps were present for previously identified Areas of Concern (AOCs) that warranted additional investigation.

### 1.1 Project Objectives

The objectives of the supplemental investigations were to address data gaps identified in site AOCs and the hydrogeologic conceptual site model (CSM) and to fulfill the SCGD objectives of identifying the extent, degree, and rate of migration of constituents of concern (COCs) in order to complete the Phase II/III site investigation.

### 1.2 Project Description

The work conducted during this investigation was conducted in accordance with the project-specific work plans (AECOM, 2016 and 2018) and was consistent with previous investigations at the site. The following activities were completed during investigation:

- Project-specific health and safety planning;
- Collection and analysis of soil samples from several AOCs;
- Installation and development of additional shallow and deep groundwater monitoring wells and collection and analysis of groundwater samples;
- Desk-top evaluation of the synthetic turf field construction and sampling and analysis of synthetic turf materials;
- Synoptic groundwater and surface water level monitoring; and
- Stream flow and precipitation monitoring.

These activities are documented in this report. This report presents and discusses data obtained during the hydrogeologic, data gaps and synthetic turf investigations, providing relevant comparisons to previous investigations and other historical data, where appropriate.

## 2. Project Background

The following sections provide information on the site history, the environmental setting and the geologic and hydrogeologic conditions in the surrounding region and at the site. Also included is a discussion of the regulatory agencies involved in the site investigation and remediation process and the standards used to evaluate analytical results for the various environmental media sampled.

### 2.1 Site Description

The site is located at 10 Hillside Road in Greenwich, Connecticut, which is approximately 73.61 degrees west longitude and 41.04 degrees north latitude. Information obtained from the Town of Greenwich Tax Assessor's office indicates that the site is owned by the Town of Greenwich, includes 54.75 acres, and is designated by parcel number 07-4511/S. A Site Location Plan is included as **Figure 2-1**. A Site Plan, depicting the current layout and pertinent site features, is included as **Figure 2-2**.

The site is in an area zoned for single-family residential use (R-20) and is bounded by residential properties to the north and west, East Putnam Avenue to the south, and Hillside Road to the east. Residential properties are located beyond East Putnam Avenue and Hillside Road. The site is currently used as a public high school with associated athletic facilities. The southeast corner of the site has not been developed and remains in the same condition as it existed prior to the Town purchasing the property except that the residences that occupied that area were demolished. Improvements include a high school building complex with multiple specific-use wings, paved parking areas, natural and synthetic turf athletic fields, tennis courts, batting cages, landscaped areas and pedestrian walkways. Utilities provided to the property include municipal water, storm drainage and sewer, electricity and communications. Heating is provided by oil-fired boilers; No. 2 fuel oil for heating is stored on-site in a 15,000-gallon underground storage tank (UST). This report will reference the athletic fields extensively. A guide to the field numbering and use is provided below:

Field ID	Use	Surface
1	Football	Synthetic turf
2	Baseball	Natural turf
3	Various	Synthetic turf
4	Various	Synthetic turf
5	Softball	Natural turf
6	Various	Synthetic turf
7	Various	Synthetic turf

A fenced utility area, located between Wing B and the West Brothers Brook, encloses a transformer, owned and operated by Connecticut Light & Power, switch gear cabinets, an emergency electrical generator with an integral 200-gallon diesel day tank and a steel storage container used to store maintenance vehicles and small quantities of gasoline. A 1,000-gallon diesel UST for the generator is located between the fenced area and the adjacent paved parking area. Adjacent to the fenced utility area is an evaporative cooler used by the air conditioning system. The southeast corner of the property is wooded.

West Brothers Brook flows onto the property from the northwest and is diverted into a concrete channel at the property boundary. The concrete channel follows the western property boundary, curves east between the football stadium (Field 1) and the baseball field (Field 2) before returning to a natural stream bed. The brook then widens into a small surface water impoundment in the southeast corner of the site; referred to as Cider Mill Pond. Water from the impoundment flows over two spillways in the constructed dam and exits the southeastern corner of the property via culverts constructed under East Putnam Avenue.

## 2.2 Site History

The property was used for residential purposes and was largely undeveloped before the Town acquired the site property in 1966. The property was originally three separate parcels which the Town purchased and combined into one parcel. Sanborn fire insurance maps indicate that, prior to 1966, the site was occupied by several residences and outbuildings along East Putnam Avenue and Hillside Road.

Two water bodies were observed on historical maps. Wetlands (referred to as Ice Pond on the 1938 and 1950 Sanborn maps) were located in the central portion of the property and an unnamed pond (currently Cider Mill Pond) is shown in the southeast corner. West Brothers Brook entered the property at the same location as it does currently, flowed southeast into the wetlands, and then beyond to Cider Mill Pond.

During the initial construction phase for the high school in the late 1960s, bid documents and historical construction drawings show that the brook was rerouted along the western portion of the site into the concrete channel it currently occupies. These documents also indicate that fill was brought onto the property to fill the wetlands, to grades similar to those that currently exist, during construction of the high school buildings. The diversion of West Brothers Brook and subsequent filling terminated the function of the wetlands at the property. The high school buildings were constructed on the eastern portion of the property, beyond the limits of the historical wetlands, on areas of shallow bedrock or bedrock outcrops.

Construction of the high school was performed between 1966 and 1972 with the original school building, eight tennis courts and athletic fields to the west of the school buildings (located in the vicinity of the former wetlands and West Brothers Brook original channel) with the school opening for use in 1970. Several improvements to the property have taken place since the initial construction of the high school:

- In the early 1970s, additional fill was imported to level an area settling in the western parking lot. This area of settling was a paved parking lot prior to the import of additional fill and was restored as such following these operations.
- In 1974, the existing athletic fields were re-graded for improved drainage as the large area of relatively flat grades were allowing storm water to pond on the surface and limiting the use of these fields. Additional re-grading of the athletic fields was performed between 1982 and 1985. Historical drawings indicate that Fields 2 through 7 were constructed in their current locations by 1994. Additional improvements to Fields 3 through 7 were completed in 2005.
- In 1975, a football stadium (Field 1) was constructed in the southwestern corner of the site, along East Putnam Avenue. In 2002, the football stadium was rebuilt with a surrounding track.
- Between 1982 and 1985, a softball field (Field 5) was constructed to the north of the high school buildings in an area which was previously undeveloped by the school.
- The Science wing addition at the high school was completed after 1994.
- The tennis courts were rebuilt in 2005 in the same location as the original courts.
- Construction of the Music and Instructional Space Auditorium (MISA) addition to the high school was planned to commence in mid-July 2011. However, during utility trenching activities for improvements to the parking lot and irrigation system, polychlorinated biphenyls (PCBs) were encountered in the upper 2 feet of soil. The EPA, DEEP, and the CT Department of Public Health (DPH) were notified and the investigation activities previously described were initiated. MISA construction subsequently resumed in 2012, and the MISA construction project was completed in 2017.

## 2.3 Prior Investigation and Remediation Activities

The following section provides a general timeline of relevant investigation and remediation activities. Note that this is a general timeline of events and does not intend to include all activities performed, or documents prepared related to the site:

- Phase I ESA – Diversified Technology Consultants (DTC), August 2011: The Phase I ESA identified AOCs and provided recommendations for additional work.
- Site Investigation Activities – DTC, August and September 2011: Initial investigation activities included surficial soil sampling and focused soil borings, asphalt sampling, and bedrock sampling. Results were reported in AECOM's Remedial Investigation Report (see below)
- Interim Remedial Measures – DTC, 2011: Interim Remedial Measures (IRMs) included soil excavation and/or placement of fencing to restrict access to areas with impacted surficial soil. IRM completion reports were prepared by DTC and submitted to the regulators. IRM areas are shown on **Figure 2-3**.
- Remedial Investigation Report – AECOM, February 2013: The RI report documented initial remedial investigation activities performed during 2011 and 2012.
- Screening Level Ecological Risk Assessment (SLERA) – AECOM, February 2013: The SLERA evaluated risk to ecological receptors associated with West Brothers Brook and Cider Mill Pond. The SLERA was amended in October 2017 to include data from upstream and downstream sediment and surface water samples and to update the risk evaluation.
- Human Health Risk Assessment (HHRA) – AECOM, April 2013: The HHRA evaluated risk to human health and the environment posed by constituents of concern (COCs) at the site and provided a basis for development of the initial Remedial Action Plan (RAP) for the site.
- Focused Feasibility Study (FFS) – AECOM, April 2013: The FFS evaluated remedial alternatives for the site and provided a framework, along with the HHRA, for development of the RAP.
- Remedial Action Plan – AECOM, November 2013: The RAP proposed to address PCB impacts in accordance with risk-based disposal provisions of TSCA [40 CFR 761.61(c)] and the results of the HHRA (AECOM, 2013c). The RAP proposed to remove shallow soils impacted in areas where soil is not located under durable artificial turf and thereby provide additional protection against potential future risk of exposure. The RAP was the subject of two rounds of comment and response between DEEP and the Town/AECOM and to date has not been approved by the agencies. The Town and AECOM are working with the regulators to address comments received on the RAP, and much of that work is documented herein.
- Phase I Remediation – Summer 2014: The Town and AECOM implemented an interim remedial action on the southern portion of the property during the summer of 2014. The remedial action addressed soil containing pesticides, arsenic, and benzo(a)pyrene. Cleanup criteria for the Phase I remediation were based on the results of the HHRA for these constituents with DEEP approval of an alternate cleanup criterion for arsenic. Phase I Remediation areas are shown on **Figure 2-3**.
- MISA construction - 2012 through 2017: The Town implemented an interim remedial action to allow completion of the MISA construction. The MISA construction was completed pursuant to a PCB Cleanup Plan, which was approved by EPA under the risk-based disposal provisions of TSCA, subject to specific conditions regarding the management and disposal of PCB-impacted soil and groundwater.
- Western Parking Lot Expansion – Summer 2015: To facilitate additional parking areas and upgrade stormwater drainage at the site, the Town completed a construction project to expand the western parking lot, install additional lighting and stormwater drainage during the summer of 2015. During the construction activities soil remediation was performed including excavation and off-site disposal of PCB-impacted soil, under a TSCA risk-based disposal approval from USEPA, and disposal Connecticut-regulated waste. Western Parking Lot remediation areas are shown on **Figure 2-3**.
- Site Investigation Work Plan – AECOM, July 2016: This work plan was developed to address DEEP comments on the RAP pertaining to the hydrogeologic conceptual site model, as well questions related to the synthetic turf fields. Findings from activities performed under this work plan are presented in this report.

- Environmental Conditions Assessment Form (ECAF) – AECOM, May 2017: Following discussions with DEEP, the Town entered the site into the Voluntary Remediation Program. An ECAF was submitted in May 2017. In the ECAF acknowledgement, DEEP indicated that they would retain oversight of the investigation and remediation of the site (DEEP lead).
- Data Gaps Investigation Work Plan – AECOM, February 2018: This work plan was developed to address data gaps identified at the site relative to assessing compliance with the Connecticut Remediation Standard Regulations (RSRs) and planning remedial activities accordingly and to address DEEP comments on the RAP related to RSR-compliance issues.

## 2.4 Regulatory Framework

The site is enrolled in the DEEP Voluntary Remediation Program under Connecticut General Statutes Section 22a-133x, and DEEP has retained oversight of the investigation and remediation of the site (DEEP lead). As such, the remediation of the site is subject to the RSRs (Regulations of Connecticut State Agencies [RCSA] 22a-133k-1 through -3) (DEEP, 2013).

The site is also under the jurisdiction of EPA and subject to TSCA with regard to PCBs detected in soil. PCB-impacted soil at the site has been determined to be PCB remediation waste as defined in §761.3 of Chapter 40, Code of Federal Regulations, Part 761 (40 CFR Part 761). The Town is working directly with the EPA Region 1 PCB Coordinator and DEEP's Bureau of Materials Management and Compliance Assurance PCB Program staff with regard to investigation and remediation of PCBs.

The applicable groundwater clean-up criteria for the site are the Groundwater Protection Criteria (GWPC), Residential Volatilization Criteria (R VC), and the Surface Water Protection Criteria (SWPC). The applicable soil criteria are the Residential Direct Exposure Criteria (R DEC) and GA Pollutant Mobility Criteria (GA PMC). Where numerical criteria are not available in the RSRs (DEEP, 2013), detected analytes are compared to DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (APS) and Alternative Criteria Requests (DEEP, 2018). Such comparisons are for purposes of preliminary evaluation only. Alternative compliance demonstrations allowed by the RSRs, including derivation of site-specific APS may be performed subsequent to issuance of this report.

## 2.5 Environmental Setting

Most of the site has been graded to facilitate the construction of the high school, parking areas and several athletic fields. DEEP has designated groundwater beneath the site as "GA" quality. Groundwater categorized as GA is considered suitable for drinking or other domestic uses without treatment. The National Flood Insurance Rate Map for the area of the site shows that most of the site is located within Zone X, outside of the 500-year floodplain. Areas in the vicinity of West Brothers Brook are located in Zone AE, within the 100-year floodplain, with some areas designated in the 500-year floodplain. Areas adjacent to West Brothers Brook are within the regulatory floodway.

## 2.6 Geology

Bedrock at the site is relatively shallow over most of the site, except beneath Fields 3 and 4 and portions of Fields 2 and 5 and the Western Parking Lot. In this area, a depression in the bedrock extends to depths of between approximately 30 and 65 feet below ground surface (bgs). In other portions of the site, including along the eastern, northern, and western property boundaries, along the natural channel of West Brothers Brook, and throughout the southeastern quadrant of the site, bedrock outcrops are encountered. A map depicting the depth to bedrock is provided as **Figure 2-4**. A generally thin, sandy till overlies bedrock in most portions of the site where outcrops are not present, and in much of the site, only a thin layer of topsoil overlies the till layer. In the center of the site, where bedrock is deeper, a wetland was present prior to regrading of the site for school construction, and in this area, peat deposits are typically present with thicknesses observed of between 2.5 and 28 feet, and are overlain by fill material.

According to the Bedrock Map of Connecticut, bedrock at the site is the Harrison Gneiss and the Nodular Member of the Harrison Gneiss, which is described as an interlayered dark- and light-gray, medium-

grained, foliated gneiss. The gneiss is chiefly composed of andesine, quartz, hornblende, and biotite and locally potassium-feldspar phenocrysts, quartz-sillimanite crystals, and iron pyrite.

Fill material in the area of the former wetland generally consists of medium to very dense, fine to medium sand with some silt and traces of gravel with debris containing trace amounts of cinders, brick, glass, roots, wood, plastic, and rubber. Other fill materials consisted of silty sand with gravels, cobbles and boulders, similar to the native soils encountered at the site and may represent reworked native materials moved during construction activities. In general, fill materials were encountered at depths ranging anywhere from the surface to 14 feet bgs. The most extensive layer of fill material was encountered in the southeastern corner of Field 3 and beneath portions the Western Parking Lot.

## 2.7 Hydrogeology

The site is located within the Brothers Brook watershed, which is located in the central portion of Greenwich. The watershed consists of 5,800 acres surrounding the East and West branches of Brothers Brook and their tributary streams. The High School is located within the central portion of the watershed just upstream of the confluence between the East and West branches of Brothers Brook.

Previous studies conducted in Connecticut have shown that a large percentage of recharge to till areas discharges directly from the till into small nearby streams and intermittent watercourses during wet periods. Under natural conditions, most recharge to surficial deposits within valley-bottom locations does not enter bedrock. These areas are typically associated with groundwater discharge; therefore, groundwater is more likely to flow upward from the bedrock aquifer to the surficial deposits than downward from the surficial deposits to the bedrock aquifer.

The site is surrounded by elevated land features to the east, north, and west, and bedrock outcrops are present around and on much of the site. Prior to the construction of the athletic fields, historical channels were present in the wetland complex, some of which appeared to act as headwater-like groundwater discharge zones adjacent to upland areas, alongside a main channel (i.e. West Brothers Brook prior to its relocation), which bisected the wetland complex from northwest to southeast. Fill materials were placed in these channels and over the wetland to build the Site recreational facilities. However, groundwater recharge is still understood to occur from the area of the former headwaters, and filled channels may act as preferential migration pathways where silt/peat deposits are thinner.

Groundwater recharge also occurs as precipitation infiltrating portions of the Site. While Fields 2 and 5 are natural grass, the remainder of the athletic fields are synthetic turf. A portion of the precipitation falling onto the artificial turf fields is diverted through a drainage mat to perforated perimeter drains, with additional infiltration through perforations in the drainage mat. The drains are connected to the shallow aquifer and recharge shallow groundwater around the fields. Diverted precipitation that does not infiltrate the shallow groundwater below the field and perimeter drain flows to two outfalls into the culverted portion of West Brothers Brook.

Groundwater flow contours indicate a primary northwest to southeast direction to groundwater flow across the site. A mound is evident in the water table that is centered beneath the southern portion of Field 3, centered in an area where a headwater stream was formerly present in a portion of the filled wetlands that is furthest removed from locations with natural discharge to surface water, subsequent to the construction of a concrete culvert to re-route West Brothers Brook.

Shallow groundwater flows parallels the historic wetland channels. While steep gradients exist between the shallow aquifer and the culverted portions of West Brothers Brooks, indicating resistance to groundwater flow, the gradient on the eastern portion of the fields generally follows the southeasterly orientation of the historic location of West Brothers Brook that bisects the fields. The former channels represent areas where peat deposits are thinner and, thus, were filled with more permeable fill, and likely act as a drain promoting flow to the southwest toward the existing natural channel of West Brothers Brook to the southeast.

The vertical component to the hydraulic gradient is generally downward from the shallow aquifer across the peat unit. Gradients suggest that poor connections exist, except for wells that are located in areas where peat deposits are thinner. This downward gradient is reflective of shallow recharge and generally static deep groundwater contours. Deep groundwater has a weak horizontal gradient that is generally north and north-northwest to south and south-southeast, paralleling shallow groundwater flow. Peat deposits are not present near West Brothers Brook downgradient of the localized deep aquifer, and thus, this flow is interpreted to discharge to surface water, along with shallow groundwater in this area.

## 2.8 Areas of Concern

There are 16 AOCs that have been identified at the site. Nine of these were identified during the Phase I Environmental Site Assessment (DTC, 2011); six were identified during the Remedial Investigation (AECOM, 2013), and one was discussed in the Data Gaps Investigation Work Plan (AECOM, 2018). Four of the AOCs identified in the RI are not, strictly speaking, AOCs, but rather are areas of focused investigation where releases from other AOCs may have come to be located. These four AOCs: AOC10 – Groundwater, AOC-11 – West Brothers Brook Sediments, AOC-12 Cider Mill Pond Sediments; and AOC 15 – Surface Water are discussed briefly below for the sake of continuity with previous reports, but the discussion of results and evaluation of compliance are provided either in the Ecological Risk Assessment (AECOM, 2013b) and addendum (AECOM, 2017) or in conjunction with the other AOCs, rather than in **Section 4.0**. AOCs are depicted on **Figure 2-5**.

### 2.8.1 AOC 1 – Fill Area

Prior to construction of the school in the 1960s, the area west of the current school building was occupied by a wetland complex that was fed and drained by West Brothers Brook. During construction of the school, the brook was diverted into a concrete channel and the wetland filled up to the current grade. AOC 1 is the portion of the site where imported fill was used to backfill the wetlands that were formerly present at the site. This approximately 495,000 square-foot area includes much of Fields 2, 3, 4, and 5 and the western parking lot and portions of Field 6.

The source of the fill is not known. A wide range of COCs were considered in this AOC, including PCBs, extractable total petroleum hydrocarbons (ETPH), volatile and semi-volatile organic compounds (VOC and SVOCs, respectively), metals, and pesticides.

Investigation activities in AOC 1 were documented in the RI Report completed for the site (AECOM, 2013). The RI was performed during 2011 and 2012 with an objective of characterizing environmental impacts sufficient to develop a RAP for EPA approval to address PCBs in the AOC 1 fill and to address potential risks associated with other constituents detected on site. While the RI Report was not developed with the objective of obtaining compliance with the RSRs, the investigation was performed in general accordance with the DEEP SCGD (DEEP, 2010).

The RI documented widespread PCB impacts in AOC 1 at concentrations up to 9,500 milligrams per kilogram (mg/kg), as well as several exceedances of the R DEC for ETPH, certain polycyclic aromatic hydrocarbons (PAHs), arsenic, and lead and isolated exceedances of the R DEC for other metals, chlordane, and vinyl chloride. The analytical results for AOC 1 are summarized in **Appendix B**.

The RI did not explicitly assess compliance with PMC, but lead concentrations at several locations exceeded the GA PMC, and concentrations of ETPH and certain volatile organic compounds (VOCs) at isolated locations exceed the GA PMC, as well. An evaluation of PMC compliance for AOC 1 is provided in **Section 4.2.1**.

### 2.8.2 AOC 2 – 15,000-Gallon Underground Storage Tank

A UST was installed in this area in 1970 and used to store No. 4 fuel oil until it was replaced in 1991. The replacement UST was used to store No. 4 fuel oil until heating system upgrades were performed in 1995 and has been used to store No. 2 fuel oil since that time.

Potential release mechanisms include leaks from the tank and associated piping and spills during filling. Multiple releases were documented for the original tank, including a 1982 spill of 1,200 gallons as result of a transfer line failure and a 1995 release of 75 to 100 gallons to West Brothers Brook due to a transfer line failure in the boiler. Releases in this area are also being assessed as part of the investigation of AOC 5.

According to the DEEP registration form, the currently installed tank is epoxy-coated steel, double walled, and equipped with cathodic protection, groundwater monitoring and vapor detection wells. The piping is steel with cathodic protection.

Investigation of this AOC was documented in AECOM's (2013) RI for the site. The COCs for which samples were analyzed include ETPH, VOCs, and PAHs. Metals and PCBs were also assessed in this area as part of site-wide investigation activities. All results of soil and groundwater analyses were below applicable RSR criteria. PAHs were not detected in this area, and the maximum concentration of ETPH detected was 26.5 mg/kg, which suggests that any impacted soil resulting from historical releases was addressed during the removal of the original UST in 1991.

It is concluded that while a release of petroleum occurred that is associated with this AOC, the area of the UST has been adequately characterized, and the residual impacts are minimal. Impacts associated with transfer line releases are being assessed in conjunction with AOC 5. No further investigation is needed in this area, and data indicate that soil data comply with the RSRs. Groundwater compliance will be evaluated via site-wide groundwater monitoring.

### 2.8.3 AOC 3 – 1,000-Gallon Underground Storage Tank

AOC-3 consists of the area around the 1,000-gallon fiberglass-reinforced plastic diesel UST located north of the fenced transformer area. This tank was installed in 1996, and no releases associated with its operation have been reported. Potential release mechanisms evaluated during sampling within this AOC include leakage from the tank and associated piping and spills during filling.

The COCs for which this area was investigated include ETPH, VOCs, and PAHs, and the general area has been assessed for the presence of metals and PCBs related to fill or the nearby transformers. During the RI, ETPH, PAHs, and metals were detected in soil samples from this AOC. ETPH and lead were detected at concentrations above the R DEC and the GA PMC in one sample (V21-SB345) from this AOC, and arsenic was detected at concentrations above the R DEC in this same sample. Additional sampling was performed in this area to further assess the extent of impacts. The results of this sampling are discussed in **Section 4.1.1**.

### 2.8.4 AOC 4 – 200-Gallon Above Ground Storage Tank

AOC-4 consists of the area around the 200-gallon diesel AST for the emergency generator, which is located within the utility enclosure at the southern end of the western parking lot. The COCs for which this area was investigated include ETPH, VOCs, and PAHs, and the general area has been assessed for the presence of metals and PCBs. ETPH, PAHs, and metals were detected in soil samples associated with this AOC. This AST is connected via underground piping to the 1,000-gallon diesel UST described above, and therefore potential releases associated with this AOC are also being evaluated in conjunction with AOC 3.

Samples in this area were analyzed for ETPH, VOCs, metals, and PAHs, as well as PCBs and pesticides as part of the assessment of the general area and the nearby transformer. Reported concentrations for samples collected proximate to this AST were all below RSR criteria, and metals concentrations were consistent with background levels.

It is concluded that, while low levels of COCs have been detected in samples from this AOC, the extent of impacts has been adequately characterized (including data points from adjacent AOCs as described above) and residual impacts are below applicable RSR criteria and/or consistent with background levels. Therefore, no further investigation is warranted for this AOC.

### 2.8.5 AOC 5 – Boiler Room Wing B

The boiler room is located in the basement of Wing B of the high school. AOC-5 consists of the area surrounding the oil-fired equipment, floor drains, and an oil/water separator (OWS), as well as areas between Wing B of the school and West Brothers Brook that could have been affected by releases in this area. The fuel for the boilers is supplied by the 15,000-gallon UST discussed in **Section 2.8.2**. The boilers are within a recessed area of the floor that has several floor drains. These drains reportedly discharge to an OWS located outside and adjacent to the boiler room (west of the boiler room). The OWS discharges to the sanitary sewer. The OWS is located in the vicinity of several subsurface utilities, including natural gas and sanitary sewer lines. Soil borings were not collected in the immediate vicinity of the OWS. However samples collected in the general area do not indicate a release has occurred in this area. This is further evidenced by the absence of a documented release from the OWS.

Potential release mechanisms from this AOC include releases to the floor drains, leakage from piping and spills during cleanout activities, and leaks from the OWS. Minor cracks and surface staining were observed on the concrete floor. The COCs for this AOC include ETPH, PAHs, and VOCs. Other analytes were analyzed in the area, due to the presence of other nearby AOCs.

ETPH, PAHs, metals, PCBs, and pesticides have been detected in soil samples associated with this AOC. All reported concentrations were below the RDEC and GA PMC for samples collected during the RI. However, additional sampling was performed in this area to further assess potential impacts resulting from historical releases and evaluate PMC compliance for metals in this area. Sampling results are summarized in **Section 4.1.2**. Additional evaluation of the sufficiency of synthetic precipitation leaching procedure (SPLP) data is discussed in the site-wide data review section below. Based on a review of the data, there are no data gaps specifically associated with this AOC, and no additional investigation is warranted for this area.

### 2.8.6 AOC 6 - Transformers

AOC-6 includes the current and former transformers at the site. The current transformer (installed in 2005/2006) is located adjacent to the former transformer in a secure enclosure at the southern end of the western parking lot. The COCs associated with this AOC are ETPH and PCBs. Additional COCs were analyzed due to the presence of nearby AOCs. During the RI, soil samples in this area were analyzed for metals, PCBs, ETPH, VOCs, PAHs, and pesticides. VOCs and PCBs were not detected above laboratory reporting limits in the samples from this area. PAHs, ETPH, and metals were detected in the samples at concentrations below the applicable RSR criteria.

Due to the limited number of soil borings in this area, additional shallow soil samples were collected from the area around the transformers to better assess the concentrations of PCBs in the area. The results of this sampling are discussed in **Section 4.1.3**.

### 2.8.7 AOC 7 – Floor Drain, Oil Water Separator and Hydraulic Lift

AOC-7 consists of an area in the central western part of the Science and Technology Wing associated with the woodshop on the first floor. The woodshop houses heavy machinery and a hydraulic lift. A floor drain formerly discharged to an OWS located on the exterior of the building to the west, then to the sanitary sewer. The OWS was removed during the MISA construction project. The primary COC for this area is ETPH. The soil wing was constructed in 1990, and thus PCBs are not considered a COC for the hydraulic lifts in this AOC.

In soil samples collected for the RI within this AOC, ETPH, PAHs, and PCBs were not detected while metals were detected below applicable RSR criteria. A shallow soil sample in the vicinity AOC-7 (AH23-SB204(2-3)) contained concentrations of PAHs above the R DEC but below the GA PMC. However, these impacts are believed to be related to the parking lot (AOC 14) that was formerly in this area, as they were detected below pavement and above the depth of the OWS and associated piping. Regardless, PAH impacts in this area were excavated during construction activities associated with the MISA addition to the high school.

Additional details regarding AOC 7 were provided in the RI (AECOM, 2013b). Based on the pattern of impacts, which were only identified at depths shallower than the sources associated with AOC 7, it is concluded that there is no evidence of a release in this AOC. Therefore, no further investigation is warranted for this AOC.

### 2.8.8 AOC 8 – Pesticide Use

AOC-8 was identified in the Phase I Report (DTC, 2011) as areas associated with historical field maintenance activities including the use of pesticides and herbicides on the athletic fields at the site. Following detection of elevated pesticide concentrations in the area north of Cider Mill Pond, this area became a focus of investigation for pesticide impacts. Based on a more comprehensive review of the data, it is believed that the pesticide impacts at this location are related to the former residence (AOC-9) that was located adjacent to this area. The pesticide detected in this area was chlordane, which was commonly used for termite treatment, such as in the wood-frame residence that was formerly located in this area (USEPA, 2000).

Chlordane concentrations in soil samples from this AOC have exceeded the R DEC, GA PMC, and in some cases, the significant environmental hazard (SEH)-reporting threshold for surficial soil. In addition to pesticides, soil samples collected from this area contained ETPH, PAHs, and metals at concentrations below applicable RSR criteria. The HHRA for the Site developed a Preliminary Remedial Goal for chlordane of 10.8 mg/kg. This was based on exposure of a maintenance worker to surficial soil between 0 to 1 foot bgs. An interim, risk-based remedial action was performed in this area in 2014 to remove pesticide impacted soils and abate the SEH. Following remediation, chlordane concentrations at some locations remained greater than the R DEC, but were less than the SHE-reporting threshold.

Additional samples were collected in this area to further evaluate the extent of chlordane impacts above the R DEC and GA PMC. The results of this sampling are discussed in **Section 4.1.4**.

### 2.8.9 AOC-9 – Former Residences

AOC-9 consists of the 12 former residences that were present at the Site prior to construction of the high school. The residences were demolished prior to construction. At seven of these 12 residences, the bulk of the footprint of the former house was the site of subsequent school construction, and thus, surficial impacts related to the residences would not be expected to be apparent in those locations. In most of these cases, sampling was performed in undisturbed areas nearest the former residence.

The primary COC identified in the Phase I was lead, related to exterior paint, and pesticides were identified as an AOC during the course of the investigation. Lead and pesticides were detected at concentrations above the R DEC and/or GA PMC in samples associated with this AOC. ETPH and VOCs were detected in samples at concentrations below the R DEC and GA PMC.

One location (D19) was suspected to have a fuel oil UST based on previous investigation activities. Further investigation performed in 2014 using geophysical methods was unable to confirm the presence of the UST. Furthermore, petroleum-related constituents (VOCs, ETPH and PAHs) were not detected in soil samples collected from boring D19. These lines of evidence lead to the conclusion that a UST is not present in this area.

In addition to the area described in AOC 8 above, chlordane was detected at concentrations below the R DEC and GA PMC at four of the other seven former residences where pesticide analysis was performed. Dichlorodiphenyltrichloroethane (DDT) was detected at concentrations below the R DEC and GA PMC at two of the residences. This area is discussed in **Section 2.8.17**, which addresses impacts in the vicinity of Fields 6 and 7.

Lead was detected at concentrations above the R DEC in two samples associated with this AOC: V21-SB345, collected from 5 to 6 feet bgs, and V21-SB700, collected from 0 to 2 feet bgs. The reported lead concentrations in these samples also exceeded the GA PMC. Lead concentrations at several other

locations also exceeded the GA PMC. PCBs and arsenic were also detected at concentrations above the R DEC in samples associated with this AOC, although these constituents are not believed to be related to releases from the residences.

Additional samples were collected in this area to further evaluate leachable metals in this AOC, and PMC compliance for pesticides and lead is being further assessed through a groundwater monitoring program. The results of this sampling are discussed in **Section 4.1.5**.

#### 2.8.10 AOC-10 – Groundwater

AOC-10 was identified as an AOC during the RI as a means of assessing groundwater monitoring results that had been obtained for the site as a whole. Thus, prior discussions of groundwater did not explicitly address groundwater impacts associated with individual AOCs, with the notable exception of AOC 1 Fill Area. An expanded hydrogeologic evaluation for AOC 1 was submitted to the regulators in March 2019. Additional groundwater monitoring wells were installed at the site during the Phase II/III investigation activities to assist with the delineation of impacts in AOC 1 and to evaluate PMC compliance and groundwater quality associated with several of the AOCs described herein. While results of groundwater sampling are being summarized in annual monitoring reports for the site, an assessment of groundwater quality is provided in **Section 5.0**.

#### 2.8.11 AOC-11 – West Brothers Brook

AOC-11 was identified as an AOC during the RI as a way to focus the assessment of impacts to sediment that is located in the natural and man-made portions of West Brothers Brook. The following AOCs are believed to have the potential to have impacted West Brothers Brook:

- AOC-1 Fill Area;
- AOC-2 15,000 Gallon UST and AOC 5 Boiler Room, from which a release of fuel oil is reported to have historically impacted the brook;
- AOC-8 – Pesticide Use;
- AOC-9 Former Residences; and
- AOC-14 – Parking Lots and Other Paved Areas.

Sampling in this area assessed a wide range of COCs and was documented as part of the SLERA (AECOM, 2013), which focused on on-site sediment, and the SLERA Addendum (AECOM, 2017), which focused on downstream sediment in West Brothers Brook. AOC-11 is not discussed further in this report.

#### 2.8.12 AOC-12 – Cider Mill Pond

AOC-12 was identified as an AOC during the RI as a way to focus the assessment of impacts to sediment that is located in Cider Mill Pond. AOCs with the potential to have impacted Cider Mill Pond include the same AOCs as those identified as potential sources of impacts to West Brothers Brook above. Sampling in this area assessed a wide range of COCs and was documented as part of the SLERA (AECOM, 2013). AOC-12 is not discussed further in this report.

#### 2.8.13 AOC-13 – Southern Area

AOC-13 is the southern portion of the site (south of Brothers Brook) and includes an area where elevated arsenic levels in soil were previously identified. Elevated arsenic concentrations in soil have generally been identified in surficial soil (0 to 2 feet bgs) in areas that were historically undeveloped wooded areas. This area was largely undeveloped prior to the school constructing athletic facilities (i.e., tennis courts and football stadium) in this area, aside from four residences. ETPH, PAHs, metals, PCBs, and pesticides were detected in soil samples associated with this area. In addition to arsenic, ETPH and pesticides have also been detected at concentrations above the R DEC and GA PMC in one or more samples. ETPH, metals, and pesticides are being evaluated as potential COCs in the Southern Area. PCBs have also

been evaluated in this area, although based on an assessment of sources and release mechanisms, it is believed that PCB impacts are related to cross-contamination from AOC-1. PCB impacts are below RSR criteria.

In 2014, an interim remedial action was conducted in this area to excavate arsenic-impacted surficial soil (i.e., zero to one foot bgs) from six areas. The maximum concentration of arsenic in these areas ranged from 20 to 68.9 mg/kg. For the arsenic remediation, DEEP concurred with the use of an alternative clean-up criterion of 20 mg/kg for the excavation areas, subject to certain conditions (i.e., establishment of vegetation or mulching of backfilled areas and implementation of institutional controls to maintain current uses and prohibit intrusive activities in areas where post-remediation arsenic concentrations exceed the R DEC). Arsenic concentrations above the 20 mg/kg site-specific alternative clean-up criterion remain in several areas at the site, and the R DEC is exceeded at numerous locations.

A sample collected from boring F35-SB487 at a depth of 3 to 4 feet bgs contained arsenic at a concentration of 2,590 mg/kg, which is two orders of magnitude above concentrations detected elsewhere in native soil. This sample is located in the southern parking area, beneath a curbed landscaped area. The source of elevated arsenic in this sample is not known. However, pre-design investigation soil sampling performed prior to the 2014 remediation to delineate these impacts indicated that the extent is localized to this area.

The Town is evaluating approaches to achieve RSR compliance, including statistical evaluations, institutional and engineering controls, and/or application for DEEP approval of an alternative DEC for the site.

Additional samples were collected in this area to further evaluate leachable metals and petroleum. The results of this sampling are discussed in **Section 4.1.6**.

#### 2.8.14 AOC-14 – Parking Lots and Other Paved Areas

AOC-14 includes the paved parking and roadways at the site. COCs for this area include VOCs, ETPH, PAHs, and metals. ETPH and PAHs concentrations exceeded the R DEC and GA PMC in two or more samples. Some impacted soil was removed as part of the MISA construction activities.

Additional samples were collected in this area to further evaluate leachable metals and petroleum. The results of this sampling are discussed in **Section 4.1.7**.

#### 2.8.15 AOC 15 Surface Water

AOC-15 was identified as an AOC during the RI as a way to focus the assessment of impacts to surface water in West Brothers Brook and Cider Mill Pond. Because surface water flows through the site quickly, the potential for impacts is limited to those related to sediment impacts, groundwater discharge or surface water runoff. The potential for ongoing impact to the stream is considered minimal. Groundwater discharge to surface water in AOC 1 was discussed extensively in the hydrogeologic investigation report (AECOM, 2019). Prior sampling in this area was documented as part of the SLERA (AECOM, 2013). AOC-15 is not discussed further in this report.

#### 2.8.16 AOC 16A Courtyard Area

ETPH, metals, pesticides and PCBs were detected in soil samples from this area. ETPH was detected at concentrations above the R DEC and GA PMC, and total DDT (DDx) was detected at concentrations above the recommended APS GA PMC. Metals concentrations are generally consistent with background levels. ETPH impacts appear to be associated with a thin layer of stained fill noted in the boring log for this sample. Due to limited drilling access in this area, the presence of the surrounding school buildings and related subsurface utilities, the extent of impacts in this area will be assessed in conjunction with targeted soil excavation to remove the impacted fill material based on post-excavation observations and confirmation sampling.

### 2.8.17 AOC 16B Fields 6 and 7

The primary sources of potential impacts in the area of the Fields 6 and 7 include indirect impacts from AOC-1 and AOC-9, portions of which are located at the southwestern and eastern edges of Fields 6 and 7. The primary mechanism of by which PCBs came to be located outside of the limits of the AOC 1 fill material (aside from limited impacts associated with AOC 6 Transformers) is interpreted to be transport from impacted soil during site construction. Because the PCB contamination associated with the fill material was not known at the time of construction, minor amounts of PCBs were likely relocated and came to be located near ground surface outside of the AOC 1 fill area. PCB impacts in that AOC, which were previously identified in surficial soil, were the subject of prior interim remedial measures, as shown on **Figure 2-3**.

ETPH, PAHs, metals, PCBs, and pesticides were detected in samples associated with this area. PCBs and pesticides were detected at concentrations above the R DEC or GA PMC. Additional sampling was performed in this area to define the extent of PCB impacts and evaluate compliance with the GA PMC of pesticide impacts. Additional sampling results are summarized in **Section 4.1.8**.

### 2.8.18 Non-AOC Areas Identified in the RI

In the RI, there were a collection of samples not directly associated with a specific AOC that were collected for general site-wide characterization purposes, which were characterized as non-AOC area samples. Many of these samples were collected for analysis of PCBs to assess whether the fill identified in AOC 1 was present elsewhere. Where PCBs were detected these samples are generally discussed in conjunction with AOC 1, as that is the primary source of PCBs on site. However, to facilitate additional investigation activities during this Phase III investigation, these samples were sometimes included in the discussion of existing or new AOCs as follows:

- Samples collected south of West Brothers Brook were grouped with AOC-13, the Southern Arsenic Area. Additional sampling was performed in this area as referenced in **Section 2.8.13**.
- The area around Fields 6 and 7 was assessed by several surficial soil samples and soil borings advanced during site investigation activities. While AOC-1 extends into the southwestern corner of Field 6, the fill material is only present at depths of greater than ten feet bgs, and while residences associated with AOC-9 are present near the eastern end of the fields, the area around these fields is discussed separately in **Section 2.8.17, 4.1.8, and 4.2.8** to better evaluate conditions in these areas for purposes of planning interim remedial measures that would have to be performed in association with major repairs that are needed for these fields.
- Several samples were collected from three soil borings advanced in the courtyard area located east of the pool building and west of the main school building. Impacts in soil in this area were associated with a thin layer of stained fill material. This area is described in **Section 2.8.16**.

### 3. Scope of Investigation

Investigation activities at the site have performed in a number of phases. The work completed prior to 2017 was performed based on general risk-based corrective action (RBCA) principles to assess potential risks associated with environmental quality at the site with TSCA as the primary regulatory driver. With entry of the site into the VRP in 2017, an assessment of the site with RSRs and the SCGD as considerations was initiated. The scope of this investigation, which relies heavily on the RI and related activities, is described below.

#### 3.1 Rationale

The Town received several comments from the agencies pertaining to the RAP, compliance with the Connecticut RSRs and the hydrogeologic CSM for the site. Investigation activities are summarized briefly below. Detailed work plans were submitted to the regulators to address prior regulatory comments, identify data gaps for site-wide investigation and the hydrogeologic CSM, and describe the investigation activities performed.

#### 3.2 Sequence of Work

Greenwich High School is an active educational facility. Investigation and remediation activities have been and will continue to be scheduled to minimize disturbance to students, faculty and staff, the community at large and the ongoing educational and recreational activities that occur at the site. Site investigation activities described herein were performed as safely and efficiently as possible in relation to current facility operations and the physical layout of the site. Several factors were taken into consideration when developing the schedule, including planning activities with the greatest potential for disturbance to occur during school breaks.

#### 3.3 Field Activities

Field activities were performed in general accordance with the Site Investigation Work Plan (AECOM, 2016) and Data Gaps Investigation Work Plan (AECOM, 2018) (collectively *the work plans*). Detailed summaries of work activities can be found in the work plans referenced above. Summaries are provided below.

##### 3.3.1 Preparatory Activities

Site investigation preparatory activities included: safety planning; identification of site utilities via desk-top review, electromagnetic methods and ground-penetrating radar; notification to Call Before You Dig; work scope planning; subcontractor procurement and staff resource scheduling.

##### 3.3.2 Hydrogeologic Investigation Activities

Hydrogeologic investigation activities included deep overburden well installation, continuous groundwater and surface water level monitoring using dedicated transducers, groundwater sampling, a surface water groundwater interaction study, infiltration tests, in-situ permeability (slug) testing, and precipitation monitoring. These activities were performed in accordance with the applicable work plan referenced above. These activities are described in the Site Hydrogeologic Investigation Report.

##### 3.3.3 Monitoring Well Installation

Monitoring wells were installed as described in the work plans. Six monitoring wells were installed, five of which were installed in deep portions of the overburden aquifer to evaluate vertical extent of groundwater impacts below the peat unit in the filled former wetland in the AOC-1 area. The remaining well was installed at a similar to depth to other shallow overburden wells at the site to provide additional horizontal delineation of groundwater impacts in that same area. Additional wells were installed during the fall of

2018 to evaluate compliance with the PMC for certain COCs. Groundwater monitoring activities are further discussed in **Section 5.0**.

#### 3.3.4 Field Turf Sampling

A comprehensive desk-top and sampling and analysis evaluation of synthetic turf Fields 3, 4, 6, and 7 was completed as part of the hydrogeologic investigation. Field turf investigation activities are summarized in the Site Hydrogeologic Investigation Report. As indicated in that report, concentrations of PCBs greater than 1 mg/kg are not present in surficial turf materials, although the stone fill in certain areas beneath Fields 3 and 4 does contain PCBs at concentrations greater than 1 mg/kg but less than 10 mg/kg. Sampling of the structural stone fill in Fields 6 and 7 was performed to support the planned replacement of those fields during the summer of 2019. Sampling results are summarized in **Section 4.1.8**.

#### 3.3.5 Soil Sampling

Soil samples were collected as described in the work plans. During drilling, an AECOM scientist was present to document soil conditions, note the presence/absence of any visual/olfactory evidence of impacts and collect samples for laboratory analysis.

#### 3.3.6 Waste Management

Waste generated during investigation activities was containerized on-site in a secure location. AECOM coordinated transportation and disposal of waste with facilities permitted to accept the waste. Where necessary, characterization sampling was performed to determine appropriate facilities for disposal.

## 4. Results of Soil Sampling and Analysis

### 4.1 Sampling and Analysis

Soil sampling was performed subsequent to the RI to complete the characterization in AOCs 3, 5, 6, 8, 9, 13, 14, and 16b. The sampling program was described in the Data Gaps Investigation Workplan (AECOM, 2018). The results of this sampling program are discussed in the sections below.

#### 4.1.1 AOC-3 – 1,000-gallon UST

Three soil borings were completed to delineate the extent of ETPH, arsenic, and lead impacts in this area. Borings were advanced to the north, west, and southeast of soil boring V21-SB345, where these COCs had been detected at concentrations greater than applicable RSR criteria. Multiple attempts were made to complete a soil boring to the southwest of V21, but the presence of utilities and structures limited access in this area.

ETPH and lead were detected in all of the samples collected from this AOC in 2018, and arsenic was detected in two of four samples. ETPH concentrations were well below the R DEC in all of the samples collected from this AOC in 2018. However, arsenic and lead exceeded the R DEC in surficial soil in the sample from boring V21-SB700, and lead in SPLP extract exceeded the GA PMC by more than an order of magnitude in samples from V21-SB601 and V21-SB700.

The impacts detected at V21-SB601 are delineated to the south and southeast by samples previously collected from soil borings U21-SB347 and U21A-SB346, respectively, but access limitations between the transformer compound and the brook prevented delineation of impacts southwest of boring V21-SB700. AOC-3 sample locations are shown in **Figure 4-1**. Soil analytical data from AOC-3 is presented in **Table 4-1**.

#### 4.1.2 AOC-5 – Boiler Room

Three soil borings were completed to delineate the extent of ETPH previously detected at concentrations slightly below RSR criteria. These samples were collected at depths between two and five feet bgs in the area west of the Boiler Room in the vicinity of the 27-inch storm drain line that runs between the western parking lot and an outfall on West Brothers Brook that is located south of the Boiler Room. These samples are shallower than the storm drain and are located in close proximity to the driveway that runs behind the boiler room.

Concentrations of ETPH in samples collected from the 2018 borings at similar depths were well below RSR criteria. However, SPLP lead was detected in soil boring S21-SB609 at concentrations more than an order of magnitude above the GA PMC. The lead impacts detected at S21-SB609 are similar to those detected in AOC 3, which is located approximately 75 feet to the north-northwest. While sampling data indicated that these impacts are not contiguous, they are both believed to be associated with the former use of lead paint at the nearby former residence and are discussed further under AOC-9 in **Sections 4.1.5 and 4.2.6**. AOC-5 sample locations are shown in **Figure 4-1**. Soil analytical data from AOC-5 is presented in **Table 4-2**.

#### 4.1.3 AOC-6 – Transformers

Four shallow soil samples were collected from zero to six inches bgs in the area around the transformer pad. Samples were collected from soil beneath the surficial gravel layer at locations immediately adjacent to the pad. Sample results indicated the presence of PCBs in three of the four samples. In one of these samples (U21-SB701), the concentration of PCBs exceeded the R DEC. This sample is located immediately west of the transformer pad, and it is delineated by soil boring U21-SB704 to the south, U21-SB347 to the west, and U21A-SB436 to the north. While vertical delineation was not performed, the low concentration (1.25 mg/kg) and the absence of visible staining on the pad suggest that the vertical extent of PCB impacts is limited at this location. AOC-6 sample locations are shown in **Figure 4-1**. Soil analytical data from AOC-6 is presented in **Table 4-3**.

#### 4.1.4 AOC-8 – Pesticide Use

In 2018, soil borings were completed within and around the former pesticide remediation area. In April and July 2018, samples were collected from the area surrounding the 2014 remedial excavation completed adjacent to Cider Mill Pond to address a SEH condition for chlordane. Samples were collected from below the former excavation to evaluate the depth of chlordane impacts, and samples were collected from zero to one foot bgs in the area surrounding the excavation to delineate the horizontal extent of chlordane impacts.

Chlordane concentrations in the deeper samples (> 1 foot bgs) were below both RSR Criteria and the Recommended Criteria Values for Common Additional Polluting Substances published by DEEP in November 2015. In the area surrounding the excavation, 8 samples collected from zero to one foot bgs contained chlordane at concentrations greater than the R DEC. Generally, concentrations of chlordane in these samples were above the R DEC in the direction of Cider Mill Pond and above the GA PMC, but below the R DEC in the direction of the school from that excavation. The 2014 excavation stopped at the top of the bank of the pond, approximately five feet from the ordinary high water line. Concentrations of chlordane along the bank of the pond, both to the northeast (upstream and uphill) and to the southwest (downstream and downhill) are likewise above the R DEC.

Concentrations of chlordane downhill of the excavation area, along the top of the bank to Cider Mill Pond are much greater than the concentrations in the upstream direction, and chlordane concentrations in excess of the R DEC extend for at least 80 feet beyond the excavation in the downstream direction.

SPLP pesticide analysis was performed on 13 of the soil samples collected in 2018. Concentrations of SPLP chlordane were above the GWPC in the samples in which total chlordane concentrations were greater than the R DEC and in one of the samples (H28-SB605), where total chlordane concentrations were below the R DEC but above the GA PMC. SPLP DDx was detected at a concentration above the GWPC in one sample (D31-SB633). The reported concentration of total DDT was also above the GA PMC in the sample. Chlordane was not detected in this sample.

In seven of the eight samples where chlordane concentrations were greater than the R DEC, heptachlor epoxide, a related compound, was likewise detected at concentrations above the R DEC.

AOC-8 sample locations and results are shown in **Figure 4-2**. Soil analytical data from AOC-8 is presented in **Table 4-4**.

#### 4.1.5 AOC-9 – Former Residences

Two soil borings were completed in areas associated with AOC-9 in April 2018 to further evaluate metals compliance with the GA PMC in the areas of two former residences. In the southern area of the site, where a sample was collected in the vicinity of a former residence, the concentration of SPLP lead exceeded the GA PMC in sample D19-SB607(0-1). Near one of the former residences immediately north of West Brothers Brook, soil boring Q23-SB608 was advanced southeast of another former residence footprint, and SPLP lead was detected at 2 to 4 feet bgs at concentrations exceeding the GA PMC.

One additional boring was collected in AOC-9 in June 2018. SPLP lead was detected at 3 to 5 feet bgs at concentrations exceeding the GA PMC in a sample from boring S21-SB609, which is within the footprint of a former residence and northwest of Q23-SB608.

The locations of former residences and sample locations associated with AOC-9 are shown in **Figure 4-3**. Samples associated with other AOCs which were analyzed for pesticides are also included on **Figure 4-3** to evaluate possible indirect impacts from pesticide use on former residences. Soil analytical data from AOC-9 is presented in **Table 4-5**.

#### 4.1.6 AOC-13 – Southern Area

Shallow soil near the football stadium ticket booth / concession was re-sampled in April 2018 (sample C11-SB610) due to data that was qualified as biased high in a previously reported sample for which

ETPH exceeded the RDEC. ETPH was detected at concentrations below the R DEC in sample C11-SB610(0-0.5). However, PAHs were detected at concentrations exceeding the R DEC and GA PMC. In December 2018, four surficial soil samples were collected in C11 and C12 for ETPH and PAH analysis to delineate the lateral extents of the ETPH and PAH impacts found at C11-SB610 and C11-SS01 to the north, south, east, west. In one sample (C11-SB711(0-0.5)), PAHs were detected above laboratory reporting limits but below applicable criteria. ETPH was detected in all four samples below applicable criteria.

Further sampling was conducted in AOC-13 in June 2018, prior to the installation of a scoreboard immediately southwest of Field 1. Four surficial soil samples were collected along the proposed conduit trench and analyzed for lead, mercury, arsenic, and pesticides. SPLP lead exceeded the GA PMC in sample Scoreboard Trench 02, which was collected from 1 to 2 feet bgs. Pesticides were detected at concentrations below the R DEC in three of the four samples. Total DDT concentrations (i.e., the sum of DDT and the related compounds DDE and DDD) were slightly above DEEP's recommended GA PMC given in their compilation of recommended APS criteria (DEEP, 2018). SPLP analysis was not performed at the time of sampling, as there was no recommended GA PMC for total DDT at the time. As noted in **Section 4.2.10**, this is a common occurrence across the site, and compliance will be further assessed through groundwater sampling. Soil from the scoreboard trench was replaced with clean fill and sent off-site for proper disposal.

AOC-13 sample locations are shown in **Figure 4-4**. Soil analytical data from AOC-13 is presented in **Table 4-6**.

#### 4.1.7 AOC-14 – Parking Lots and Other Paved Areas

One sample was collected in April 2018 beneath the paved area located south of Field 1 to evaluate potential petroleum impacts to groundwater in this area. SPLP ETPH was not detected above laboratory reporting limits in sample D10-SB611(6-6.5).

AOC-14 sample locations are shown in **Figure 4-5**. Soil analytical data from AOC-14 is presented in **Table 4-7**.

#### 4.1.8 AOC-16B – Fields 6 and 7 Area

DDT and chlordane were previously detected at concentrations above the recommended GA PMC and GA PMC, respectively, in samples located east of Fields 6 and 7. In April 2018, two samples were collected east of Field 6 to assess PMC compliance for pesticides. SPLP pesticides were not detected above laboratory reporting limits in samples AT27-SB612(0-0.5) and AV28-SB613(0-0.5).

Several soil samples were collected in the area north of Field 7 during 2018 to define the extent of PCB concentrations greater than 1 mg/kg in previous boring BD27-SB252. Samples were collected from 1 to 4 feet bgs. PCBs were detected in sample BC27-SB615(1-2) at concentrations exceeding the RDEC.

AOC-16B sample locations are shown in **Figure 4-6**. Soil analytical data from AOC-16B is presented in **Table 4-8**.

Samples of the structural stone base material underlying Fields 6 and 7 was performed to support the planned replacement of those fields this year. The sampling results show that PCBs were not detected in any of these samples. Therefore, it is interpreted that the overlying turf materials at these locations are also not impacted by PCBs. This information is presented in detail in the Interim Remedial Action Plan (IRAP) (AECOM, 2019).

## 4.2 RSR Compliance Evaluation and Updated CSM

### 4.2.1 AOC-1 – Fill Area

The data collected to date show that the fill material used to construct the high school was impacted by COCs including PCBs, VOCs, PAHs, ETPH, and metals. Pesticides are present to a lesser degree, although their presence is likely associated with their former use at the site, rather than the fill material. The fill area (**Figure 2-5**) extends from Field 2, north to Field 6, where it thins out at depths greater than 10 feet bgs. The extent and degree of AOC-1 impacts was documented in the RI report (AECOM, 2012) and are well understood. COCs in the fill material are present at concentrations above the R DEC, as well as above TSCA regulatory limits. However, as the RI was performed using a risk-based approach, and completed before the enrollment of the site into the VRP, a determination of compliance with the PMC using SPLP analysis was not performed previously. Nevertheless, ample groundwater sampling was performed within AOC-1 to assess PMC compliance by reliance on groundwater data.

PCB impacts have also been identified in other AOCs (i.e., AOC-9 – Former Residences and AOC-16B-Fields 6 and 7) and are likely the result of PCB impacts being transported to these other AOCs during construction activities, which were performed prior to knowledge of PCBs at the site.

The thickness of the fill material is greatest beneath Fields 3 and 4 and thins out laterally from those areas. Beneath Fields 3 and 4, the fill extends to a maximum depth of approximately 15 feet bgs. The depth to the seasonal low groundwater table in AOC-1 is approximately 5 to 6 feet bgs and can be shallower in some locations (e.g., MW-Y9 and MW-AH16R). Based on this information, impacts below approximately 6 feet bgs are not subject to compliance with the GA PMC.

AOC-1 COCs have been detected at concentrations above the GA PMC in samples collected from above the seasonal low water table and will need to be addressed for compliance. Groundwater monitoring results also show PCBs, ETPH, PAHs, and metals at concentrations above the GWPC and SWPC in samples from AOC-1 monitoring wells that are screened within the fill material. Further evaluation of groundwater impacts in AOC 1 will continue during remedial planning.

### 4.2.2 AOC-3 – 1,000-gallon UST

Analytical data indicating the presence of ETPH, lead, and PAHs suggest that a localized release of petroleum occurred in the vicinity of the diesel fuel UST. While this release could be related to the UST itself, it may also be related to fuel handling in the area of the emergency generator or runoff from the adjacent parking lot. The presence of lead in the area suggests the possibility that an old gasoline release, either from fuel stored in the shed in this area or from parking lot runoff, may be partially responsible for the impacts to soil.

The concentration of arsenic previously detected at soil boring V21-SB345 (102 mg/kg) is indicative of a localized release. The source of arsenic in soil is not known. There are no records of Town activities in the area that might be associated with the presence of arsenic. However, AOC-3 is located immediately adjacent to one of the former residential dwellings, and the presence of elevated arsenic concentrations could be related to pressure treated lumber or other activities associated with that dwelling. The concentration detected at S21-SB700 (14 mg/kg), while greater than the R DEC, is consistent with soil concentrations encountered throughout much of the site and may not be indicative of a release. A formal assessment of local background arsenic concentrations was performed in 2013 and will be reviewed and updated as necessary in conjunction with the development of the updated site-wide RAP.

Analytical data indicate the presence of ETPH at concentrations above the R DEC and the GA PMC in the subsurface immediately south of this UST. Arsenic is present in this same area at concentrations in excess of the R DEC. Lead is present in a wider area south, southeast, and southwest of the former UST and has been detected both in surface and subsurface soils at concentrations in excess of the R DEC and GA PMC.

The concentrations of ETPH and arsenic detected adjacent to the UST are greater in soil at depths of 5 to 6 feet bgs, closer to the water table than they are to ground surface. While this could indicate a subsurface release, it is equally likely that it is indicative of a small surficial release that readily infiltrated through the crushed stone surface and spread horizontally along the capillary fringe. Lead concentrations exhibit no such pattern, suggesting that they may be related to a surface release.

#### 4.2.3 AOC-5 – Boiler Room Wing B

Analytical data indicate that a release of petroleum occurred in the vicinity of the Boiler Room. The maximum concentration of ETPH detected in the immediate vicinity of the boiler room is almost an order of magnitude below R DEC (59.3 mg/kg at R24-SB443), but higher concentrations (still below RSR cleanup criteria) were detected in the vicinity of the storm drain associated with the western parking lot. The petroleum impacts detected are at depths of two to five feet below ground surface and are directly adjacent to (R23-SB-309) or within 10 feet and downhill (S21-SB609) of the driveway behind the school. Follow-up sampling in these areas identified lower concentrations of ETPH in the areas surrounding the initial borings. As the greatest impacts were detected at a depth above those of the storm drain lines and removed from the boiler wing, these impacts are not considered related to the Boiler Room and are likely related to parking lot runoff. The lower concentrations detected in the immediate vicinity of the Boiler Room are likely indicative of a release within the Boiler Room that migrated through cracks in the floor or around floor penetrations, but the concentrations suggest minimal impacts to the subsurface from the boiler room.

The presence of leachable lead along with ETPH in soil west of the Boiler Room may be associated with historical parking lot runoff containing gasoline constituents. However, no VOCs were detected in samples with elevated ETPH. The extent of leachable lead around the driveway behind the Boiler Room and in the vicinity of other parking areas may require additional assessment.

#### 4.2.4 AOC 6 – Transformers

Analytical data suggest that a localized release of PCBs occurred at the former (removed in 2005/2006) PCB-containing transformer in this area. Impacts were observed immediately adjacent to the slab on the north, east, and west sides, and impacts were observed at concentrations greater than the R DEC on the west side, but those impacts are well delineated and are believed to represent a localized release for which data are sufficient to develop appropriate remedial actions.

#### 4.2.5 AOC-8 – Pesticides

Chlordane concentrations in the area east and south of Cider Mill Pond exceed the R DEC over a 200-foot long stretch of embankment. The source of the chlordane is not certain, but it is suspected of being related to the former residence at this location. Chlordane was used as an insecticide for termites on wooden structures until the 1980s, and the concentrations observed are consistent with the customarily liberal application of the pesticide for such purposes.

Chlordane concentrations extend from the location of the former residence, along the banks of Cider Mill Pond in a southwesterly direction. These impacts generally decrease further from Cider Mill Pond. This is generally downhill and may be indicative of sediment transport during precipitation events. The downstream area is heavily wooded, rocky terrain, and has never been developed.

The extent of chlordane impacts in this area is delineated in both the horizontal and vertical directions. Generally, the highest pesticide concentrations are located near Cider Mill pond, with decreasing concentrations to the north (towards the parking area and school building) and to the southeast. Pesticides have not been detected at concentrations above the R DEC in samples below 1 foot bgs. Site-wide results and exceedances for chlordane in soil are shown on **Figure 4-7**, and SPLP chlordane sample results and exceedances are shown on **Figure 4-8**.

DDT has been detected over much of the site at relatively low concentrations. Where DDT has been detected, concentrations are above the recommended APS GA PMC of 3 micrograms per kilogram.

However, because DDT is highly hydrophobic, and the GA PMC does not consider equilibrium leaching processes, it is unlikely that the DDT results are indicative of a potential source of groundwater contamination. Site-wide soil sample results for total DDx and APS GA PMC exceedances are shown on **Figure 4-9**. Because the bulk of the samples analyzed for DDT were collected before the recommended APS criterion was published by DEEP, SPLP analysis was not performed on these samples. However, several samples were analyzed for SPLP pesticides. SPLP total DDT was detected in two of the samples analyzed, with results from one sample, D31-SB633, exceeding the APS GWPC. Groundwater samples are also being analyzed for DDT in unpaved areas where SPLP pesticide data do not exist to further evaluate compliance with the PMC. Site-wide results for SPLP DDx and APS GWPC exceedances are shown on **Figure 4-10**.

Based on the data collected to date, it appears as though the likelihood that chlordane will leach from soil at concentrations above the GWPC increases as total (mass-based) chlordane concentrations rise above 200 mg/kg. Total DDT generally doesn't leach at levels above the GWPC. However, the sample from D31-SB633, which contained a concentration of 14 mg/kg total DDT, contained SPLP DDT above the APS GWPC. AECOM will continue to evaluate leachable pesticides, potential impacts to groundwater and PMC compliance through the current groundwater monitoring program at the site.

#### 4.2.6 AOC-9 – Former Residences

Lead concentrations in soil samples from this AOC exceed the R DEC and GA PMC. Two samples contained lead concentrations above the R DEC. Samples V21-SB345, collected from 5 to 6 feet bgs and V21-SB700, collected from 0 to 2 feet bgs, contained lead concentrations of 1,400 mg/kg and 1,600 mg/kg, respectively. SPLP lead in these samples also exceeded the GA PMC. Four additional samples had lead concentrations below the R DEC but SPLP lead concentrations above the GA PMC. Three of these samples contained total lead concentrations consistent with background levels (i.e., less than 30 mg/kg), and thus, are not considered regulated, polluted soil. Sample S21-SB609 contained a total lead concentration of 77 mg/kg (above typical background levels), and the SPLP lead concentration was above the GA PMC. The data show that leachable lead in this area extend from near AOC-3 (1,000-gallon UST) to boring S21-SB609, which is located near the former residence. Potential sources include surface run-off containing leaded gasoline, or lead-based paint associated with the former residence. Regardless of the source, lead in this area may require additional assessment to determine the extent of remedial activities.

Pesticides (total DDT) exceed the recommended GA PMC APS at two locations associated with this AOC: AZ31-SS231 and T22-SB158, both of which are located near former residences (**Figure 4-3** and **Figure 4-10**). While chlordane impacts at these locations are likely associated with pesticide use at the former residences, DDT impacts may be from residential use or historical use for groundskeeping at the school.

ETPH concentrations in the soil sample from boring V21-SB345 exceed the R DEC and GA PMC. This boring is also associated with AOC-3 (1,000-gallon UST) and petroleum impacts are more likely associated with a petroleum release from that AOC than the former residence.

Arsenic concentrations in soil samples from portions of this AOC exceed the R DEC. Arsenic concentrations above the R DEC in AOC-9 samples range from 14 mg/kg to 102 mg/kg. The source of arsenic impacts in this AOC is not known, and elevated arsenic concentrations are known to exist in native, natural soils at the site (AOC-13). The sample with the highest arsenic concentration (102 mg/kg) was also analyzed for leachable arsenic. The reported leachable arsenic concentration was below the GA PMC.

#### 4.2.7 AOC-13 – Southern Area

Arsenic concentrations greater than 20 mg/kg were excavated during an interim remedial action conducted in 2014 on the southern portion of the site. Some locations having arsenic concentrations greater than 20 mg/kg adjacent to Cider Mill pond were left in place (near the ordinary high water mark), and concentrations greater than the R DEC also remain throughout this AOC at depths ranging from 0 to

4 feet bgs. Additional analytes found to exceed the R DEC in AOC-13 include beryllium (35-SB488 (2.5-3.5')), PCBs (SS-248 and SS-249), ETPH (C11-SS01), and PAHs (C11-SB610 (0-0.5')). As discussed previously, these COCs are also associated with other AOCs at the site.

With respect to compliance with the GA PMC, only limited exceedances have been identified in AOC-13. Surficial soil sample C11 had ETPH and PAH concentrations above the GA PMC. This sample is believed to be associated with the generator for ticket booth / concession stand for the football stadium (Field 1) and will be excavated during a planned interim remedial action. Five samples from this AOC have been analyzed for leachable metals. Arsenic was only detected in one sample collected from this AOC and the result was an order of magnitude below the GA PMC. Pesticides have been detected above the GA PMC (and APS GA PMC) at several locations throughout this AOC. As discussed previously, leachable pesticides are currently being evaluated via groundwater monitoring.

**Figure 4-11** shows site-wide concentrations of arsenic and R DEC exceedances, and **Figure 4-12** shows site-wide SPLP arsenic results and GA PMC exceedances.

#### 4.2.8 AOC-14 – Parking Lots and Other Paved Areas

Based on a review of the data for this AOC, concentrations of petroleum constituents in soil at four locations (**Figure 4-5**) were found to exceed the R DEC or GA PMC.

- Sample AH23-SB204(2-3') contained PAHs at concentrations above the R DEC and GA PMC and was excavated during the MISA construction activities,
- Sample AH29-SB231(0.4-0.6') was collected from immediately below asphalt and contained ETPH concentrations above the R DEC and GA PMC. PAHs were not detected in this sample, and metals concentrations are generally consistent with background levels and below applicable RSR criteria. This sample is bound by samples where ETPH was not detected. Given the absence of an alternate source, the ETPH appears to be an incidental source related to the pavement and is exempt from the R DEC and GA PMC.
- Sample AW32-SB254(2-4') contained concentrations of ETPH and PAHs above the R DEC and/or GA PMC. It is bound laterally by samples where ETPH and PAHs were not detected. Due to the localized nature of these impacts, their location beneath pavement and the COCs present, it is determined that the impacts are associated with paving operation and/or incidental releases from motor vehicle operations. Therefore, impacts at this location are exempt from the GA PMC and R DEC.
- Sample D10-SB242(6-6.5') contained concentrations of ETPH above the R DEC. It is bound laterally by samples where ETPH was not detected. Impacted soil at this location will be rendered inaccessible by a future ELUR to comply with the DEC. According to the log for this boring, the sample was collected below the water table. Therefore the PMC does not apply. However, a sample was collected from this area and analyzed for SPLP ETPH to evaluate the potential for groundwater impacts. Leachable ETPH was not detected in the sample.

Based on the information, soil impacts in AOC-14 have been adequately characterized and compliance with applicable RSR criteria will be obtainable utilizing institutional controls (ELURs). The data also indicate that impacts to groundwater from petroleum impacted soil is not likely for this AOC.

#### 4.2.9 AOC-16B – Fields 6 and 7

Investigation results within the footprint of Fields 6 and 7 show that a portion of the impacted fill material used to construct the high school (AOC-1) extends to the western portion of Field 6 and contains PCB concentrations greater than 50 mg/kg at depths of approximately 11 to 12 feet bgs. Two such sample results were obtained, one containing PCBs at a concentration of 223 mg/kg [AT20-SB394 (11.3'-12.3')] and another containing PCBs at a concentration of 51.7 mg/kg [AV20-SB393 (11'-12')]. These samples were associated with an approximately 1.5 foot thick layer of black-stained fill material similar to that encountered beneath Fields 3 and 4 on-site. The fill was not observed at shallower depths at these locations or in other borings beneath Fields 6 and 7, and PCBs were not detected above 1 mg/kg

elsewhere below Field 6. One sample collected from beneath Field 7 at a depth of 1 to 2 feet below grade contained a PCB concentration greater than 1 mg/kg. The remainder of the samples collected from within the footprint of Field 7 contained PCBs at concentrations less than 1 mg/kg or did not contain PCBs.

Based on investigation results, soil impacts adjacent to Fields 6 and 7 in natural grass areas are limited and include PCB impacts to surface soil north of Field 7. Other COCs detected in this area include:

- *Lead*: SPLP lead was detected at a concentration above the GA PMC in the sample from 7 to 8 feet bgs in boring AZ20-SB251, which is located in a natural grass area west of Field 6 (**Figure 4-6**). The soil boring log indicates that this sample was collected from immediately above the groundwater table. However, the total lead concentration reported in this sample was 17 mg/kg, which is consistent with published levels for lead in natural soil (USGS, 2007). Given that there is no known source of anthropogenic lead in the area, it is concluded that there was no release of lead, and remediation is not required.
- *Pesticides*: Chlordane and total DDT are present in surface soils within natural grass areas on the perimeter of Fields 6 and 7 at concentrations exceeding the GA PMC (chlordane) and recommended APS GA PMC for total DDT. Two samples were collected in 2018 from areas co-located with previous samples and were analyzed for SPLP pesticides. Leachable pesticides were not detected in the samples. Compliance with the PMC for pesticides will continue to be evaluated via on-going groundwater monitoring at the site.

#### 4.2.10 Site-Wide Issues

There are certain COCs that are shared by multiple AOCs or which are detected in multiple areas on site. These COCs include PCBs, chlordane, DDT, and lead. Arsenic impacts are also widespread, but are largely confined to the native soils, which are present near ground surface on the southern portion of the site.

- *PCBs*: PCBs are primarily associated with AOC-1 and fill material used for construction of the school athletic fields. However, PCBs have been identified in other, limited areas of the site at concentrations above the R DEC. Some of these impacts (AOC-6) can be attributed to a specific source, while others, such as those found in soils on northern and southern areas of the site are likely the result of cross-contamination during construction activities, which were performed prior to knowledge of the PCB-contaminated fill material.
- *Pesticides*: Chlordane and total DDT are found in surface soils in natural grass areas over much of the site. During the initial investigation activities, chlordane was identified near Cider Mill Pond and initially associated with on-site pesticide use. However, as the environmental investigation activities progressed, chlordane impacts in that area were attributed to the former residences (AOC-9) and historical pesticide use for termite control prior to the Town's ownership of the site. While the highest chlordane impacts above the R DEC are located in this area (originally designated AOC-8), chlordane and total DDT concentrations above the GA PMC and recommended APS GA PMC, respectively, are located throughout the site. Samples collected in 2018 have been analyzed for leachable pesticides by SPLP, and some results for chlordane have exceeded the GWPC. Groundwater monitoring wells were subsequently installed in strategic locations to further assess pesticide impacts to groundwater. Groundwater sampling performed to date has shown that pesticides have not been detected in groundwater samples collected from these areas. Therefore, it is anticipated that PMC compliance for pesticides will be demonstrated through groundwater monitoring in accordance with RCSA 22a-133k-2(b)(4)(C).
- *Lead*: The highest concentrations of lead in soil are generally located within the AOC-1 impacted fill material. However, SPLP lead concentrations above the GA PMC have been found within, and downgradient of AOC-3, as well as other locations across the site. Some of these locations (i.e., AZ20-SB251) have total lead concentrations consistent with background levels, while others appear to be associated with former residences (AOC-9). The Town will continue to evaluate leachable lead and potential impacts to groundwater during routine groundwater monitoring

events, and if necessary, will address leachable lead impacts in the updated site-wide RAP. Site-wide lead SPLP exceedances are presented on **Figure 4-13**.

## 5. Results of Groundwater Sampling and Analysis

An extensive discussion of site hydrogeology was provided in the Hydrogeologic Site Investigation report (AECOM, 2019). This report included an extensive discussion of site geology; structural controls on groundwater flow, such as the artificial brook channel and historic filling of the wetlands, infiltration of precipitation, groundwater-surface water interactions, assessment of the horizontal and vertical components of the hydraulic gradient, and PCBs in groundwater. Brief summaries of elements of this report are provided in **Sections 2.5 and 2.6**.

Routine groundwater monitoring is performed at the site to evaluate seasonal variation in groundwater quality, evaluate leachability of COCs in soil, and to assess groundwater flow. Groundwater monitoring results were most recently provided to DEEP in the July 2018 Annual Progress Report for the site (AECOM, 2018). The following section summarizes the results of groundwater monitoring results performed subsequent to July 2018, through the date of this report and includes an assessment of compliance with RSR criteria for constituents other than PCBs in groundwater. Historical groundwater data summary tables are provided in **Appendix C**.

### 5.1 Groundwater Analytical Results and Discussion

Groundwater sample results from the September and December 2018 monitoring events are summarized below. Data are summarized in **Table 5-1**. Results prior to September 2018 have been previously provided in annual progress reports and the Hydrogeological Site Investigation Report (AECOM, 2019).

#### 5.1.1 Polycyclic Aromatic Hydrocarbons (PAHs)

PAHs were analyzed in samples collected from nine monitoring wells in September 2018. PAHs were detected at concentrations above laboratory limits but below applicable criteria in samples from wells MW-AH16R and MW-S15. Phenanthrene exceeded the SWPC in the sample collected from MW-Y15; however, DEEP has issued an alternative SWPC for this analyte (DEEP, 2018). PAHs were analyzed in samples collected from eight monitoring wells in December 2018. PAHs were detected above laboratory limits, but below applicable criteria in the sample collected from well MW-AH16R. PAHs were not detected in any other samples analyzed during the December 2018 event. This information indicates that PAHs in groundwater at the site are generally associated with the impacted fill (AOC-1).

#### 5.1.2 Metals

Arsenic concentrations exceeded the SWPC in samples collected from wells MW-35, MW-AH16R, MW-AJ13 (December 2018), MW-S15 (September 2018), and MW-Y9 (September 2018). In September and December 2018, lead concentrations exceeded both the GWPC and SWPC in the groundwater sample collected from well MW-35. Arsenic and lead have been found in soil throughout the site at concentrations exceeding the GA PMC, as shown on **Figures 4-12 and 4-13**, respectively. Aside from well MW-35, these exceedances are all related to the impacted fill material in AOC-1. The source of these detections at MW-35 is not known. However, vehicle traffic on Hillside Road is a potential source of impacts at this well.

Antimony and barium concentrations in the groundwater sample collected from well MW-Y9 in September 2018 exceeded the GWPC. In December 2018, antimony was not detected above laboratory limits while barium was detected below applicable criteria in the sample from MW-Y9. Barium was detected at concentrations below applicable criteria in groundwater samples collected from MW-28, MW-AE8, MW-35, MW-AH16R, MW-AJ13, MW-P7, MW-S15, and MW-Y15. In soil, SPLP barium has not been found at concentrations above the GA PMC. There has been one sample, collected from AOC-1, containing SPLP antimony above the GA PMC. Given the absence of a local source and the lack of consistency in these results, the September 2018 exceedances are suspected of being anomalous and will be further evaluated through routine groundwater monitoring.

During both the September and December 2018 sampling events, zinc was detected at concentrations above the SWPC but below the GWPC in the groundwater samples collected from well MW-AJ13. In September 2018, zinc was detected below applicable criteria in samples collected from MW-35, MW-AE8, MW-AH16R, MW-P7, MW-Y15, and MW-Y9. In December 2018, zinc was detected at a concentration above the SWPC in the sample from MW-AJ13. It is assumed that the source of the zinc in well MW-AJ13 is the anthropogenic fill material. Because well MW-AJ13 is not located adjacent to a surface water body and downgradient wells do not contain zinc at concentrations above the SWPC, compliance with the SWPC for zinc exists. Groundwater monitoring will continue to evaluate zinc concentrations in the area.

Additional metals including beryllium, chromium, copper, nickel, and vanadium were detected below applicable criteria in samples collected from multiple monitoring well locations.

### 5.1.3 Extractable Total Petroleum Hydrocarbons (ETPH)

The groundwater samples collected from wells MW-AH16R and MW-Y9 contained ETPH at concentrations exceeding the recommended GWPC and SWPC. ETPH was detected below applicable criteria in groundwater samples collected from MW-28, MW-35, MW-AJ13, and MW-S15. ETPH is present in soil throughout the Site at concentrations exceeding the GA PMC, with the highest frequency of exceedances located within the extents of the AOC-1 fill material, as shown on **Figure 5-1**. Soil analytical results associated with AOC-1 were previously presented in the RI report (AECOM, 2013c). Groundwater samples with criteria exceedances in this area indicate that ETPH is leaching from the soil into the groundwater.

### 5.1.4 Pesticides

Groundwater samples from six monitoring wells were analyzed for pesticides in September and December 2018. Pesticides were not detected above laboratory reporting limits in groundwater samples from any monitoring wells. This indicates that DDX and chlordane, which are present in soil at concentrations exceeding the GA PMC, are not currently leaching into the groundwater. Continued groundwater monitoring for pesticides in groundwater is being performed to evaluate compliance with the GA PMC, GWPC, and SWPC.

### 5.1.5 Volatile Organic Compounds (VOCs)

Groundwater samples from nine wells were analyzed for VOCs during the December 2018 monitoring event. Tetrachloroethylene (PCE) was detected above laboratory reporting limits but below applicable criteria in the sample from MW-35. In all other samples, VOCs were not detected. PMC exceedances of PCE in soil have been limited to within the extents of AOC-1.

## 6. Data Quality Assurance and Data Usability Evaluation

The soil samples collected during the 2018 data gaps investigation were analyzed by Con-Test Analytical Laboratory, a Connecticut DPH-certified laboratory. The laboratory was requested to perform the analyses in accordance with the Connecticut Reasonable Confidence Protocols (RCPs).

Each analytical report case narrative was evaluated by AECOM for any potential quality concerns regarding the sample data. The Quality Control (QC) criteria specified in the RCPs were used to evaluate this information. The review relied upon the laboratory narrating RCP QC nonconformances, including those that may have occurred during sample shipping, receipt, processing, and analysis. Non-conformances and other sample analytical related issues identified in one or more of the laboratory analytical data packages did not change the overall usability of the collected analytical data. Laboratory analytical reports are included in **Appendix D**.

## 7. Findings and Conclusions

AECOM has completed a Phase III ESA at the site. The Phase ESA III was performed to update the original RI report, document the extent and degree of impacts in accordance with the DEEP SCGD, and evaluate RSR compliance for AOCs at the site. This report summarizes additional sampling activities performed at select AOCs where data gaps were identified following the RI, as noted in the Data Gaps Investigation Work Plan (AECOM, 2018). Investigation activities were performed in phases to coordinate with the academic calendar at Greenwich High School and avoid disruption to school activities, and included a comprehensive hydrogeological investigation and synthetic turf evaluation, both of which were summarized in the Site Hydrogeologic Investigation Report (AECOM, 2019). The following table provides a summary of the investigation status and RSR compliance summary for AOCs. The results of this Phase III ESA, as well as the RI and other previous reports, will be used to prepare an updated site-wide Remedial Action Plan.

AOC	Description	COCs	Investigation Status: Extent and Degree	Compliance Evaluation	Remediation Required
1	Fill Area	PCBs, VOCs, SVOCs, metals, ETPH, pesticides	Investigation complete. Release occurred. Affected area is primarily location of fill placement, although groundwater impacts extend slightly beyond fill area and some isolated PCB impacts outside the area of fill (e.g., at Field 7) are believed to be related to transport of PCBs from the filled area during historic construction activities.	COCs in soil > R DEC and GA PMC	Yes
2	15,000-gallon UST	ETPH, VOCs, PAHs	Investigation complete. Localized release of fuel oil constituents occurred in this area.	No RSR exceedances	No
3	1,000-gallon UST	ETPH, VOCs, PAHs	Soil boring investigation complete. Localized release of fuel oil constituents occurred in this area. Compliance for leachable lead and ETPH to be assessed via groundwater monitoring.	ETPH and metals > R DEC and/or GA PMC	Yes
4	200-gallon AST	ETPH, VOCs, PAHs	Investigation complete. Localized release of fuel oil constituents occurred in this area.	No RSR exceedances	No
5	Boiler Room Wing B	ETPH, VOCs, PAHs	Investigation complete. Localized release of fuel oil constituents occurred in this area and in the vicinity of the stormwater line associated with boiler room oil water separator.	Lead identified in soil > GA PMC – impacts believed to be associated with AOC 9	To be determined
6	Transformers	PCBs and ETPH	Investigation complete. Localized release of PCBs occurred immediately adjacent to transformer pad.	PCBs in soil > R DEC	Yes

AOC	Description	COCs	Investigation Status: Extent and Degree	Compliance Evaluation	Remediation Required
7	Floor Drain, Oil Water Separator and Hydraulic Lift	ETPH, VOCs, PAHs	Investigation complete. PAHs detected and removed during construction of MISA.	No RSR exceedances remain	No
8	Pesticides	Pesticides	Soil boring investigation complete. Compliance for leachable pesticides to be assessed via groundwater monitoring.	Pesticides in soil R DEC and GA PMC	Yes
9	Former Residences	VOCs, ETPH, metals and pesticides	Compliance for leachable lead and pesticides to be assessed via groundwater monitoring.	ETPH, metals, pesticides in soil > R DEC and/or GA PMC	Yes
10	Groundwater	PCBs, ETPH, PAHs, metals assessed for releases from other AOCs	Not strictly an AOC, but a focus of investigation. Groundwater monitoring ongoing to assess soil compliance	COCs > GWPC and SWPC	Yes
11	West Brothers Brook	PCBs, ETPH, PAHs, metals, pesticides	Not strictly an AOC, but a focus of investigation. Investigation performed sufficient to complete SLERA.	See SLERA	No
12	Cider Mill Pond	PCBs, ETPH, PAHs, metals, pesticides	Not strictly an AOC, but a focus of investigation. Investigation performed sufficient to complete SLERA.	See SLERA	To be determined
13	Southern Arsenic Area	Metals, ETPH, PAHs	Investigation complete. Arsenic identified in widespread area of native soil at levels believed attributed to natural background at concentrations greater than R DEC. A release of ETPH and PAHs were identified that are believed to be associated with a generator for the football stadium ticket office and concession stand in this area.	Metals (beryllium and lead, ETPH, PAHs in soil > R DEC and/or GA PMC. Background arsenic > R DEC.	Yes
14	Parking Lots and Other Paved Areas	VOCs, ETPH, PAHs and metals	Investigation complete. Releases of petroleum constituents identified in four separate, localized areas.	ETPH and PAHs > R DEC and/or GA PMC	No

AOC	Description	COCs	Investigation Status: Extent and Degree	Compliance Evaluation	Remediation Required
15	Surface Water	PCBs, ETPH, PAHs, metals, pesticides	Not strictly an AOC, but a focus of investigation. Investigation performed sufficient to complete SLERA.	See SLERA	No
16A	Courtyard Area	PCBs, ETPH, metals and pesticides	Investigation complete. Release of ETPH identified associated with stained soil used as fill that has is not the same material and does not have the same COCs as fill found in AOC 1. Impacts are not fully delineated, due to access considerations. Delineation to be performed in conjunction with targeted remedial action in this area.	ETPH, pesticides above R DEC and/or GA PMC	
16B	Fields 6 and 7	PCBs, ETPH, PAHs, metals and pesticides	Not strictly an AOC, but a focus of investigation. Investigation performed to characterize impacts related to releases from AOC 1 and AOC 9 that affected this area. Delineation completed.	Metals, PCBs and pesticides > R DEC and/or GA PMC	Yes

## 8. References

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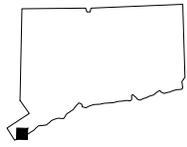
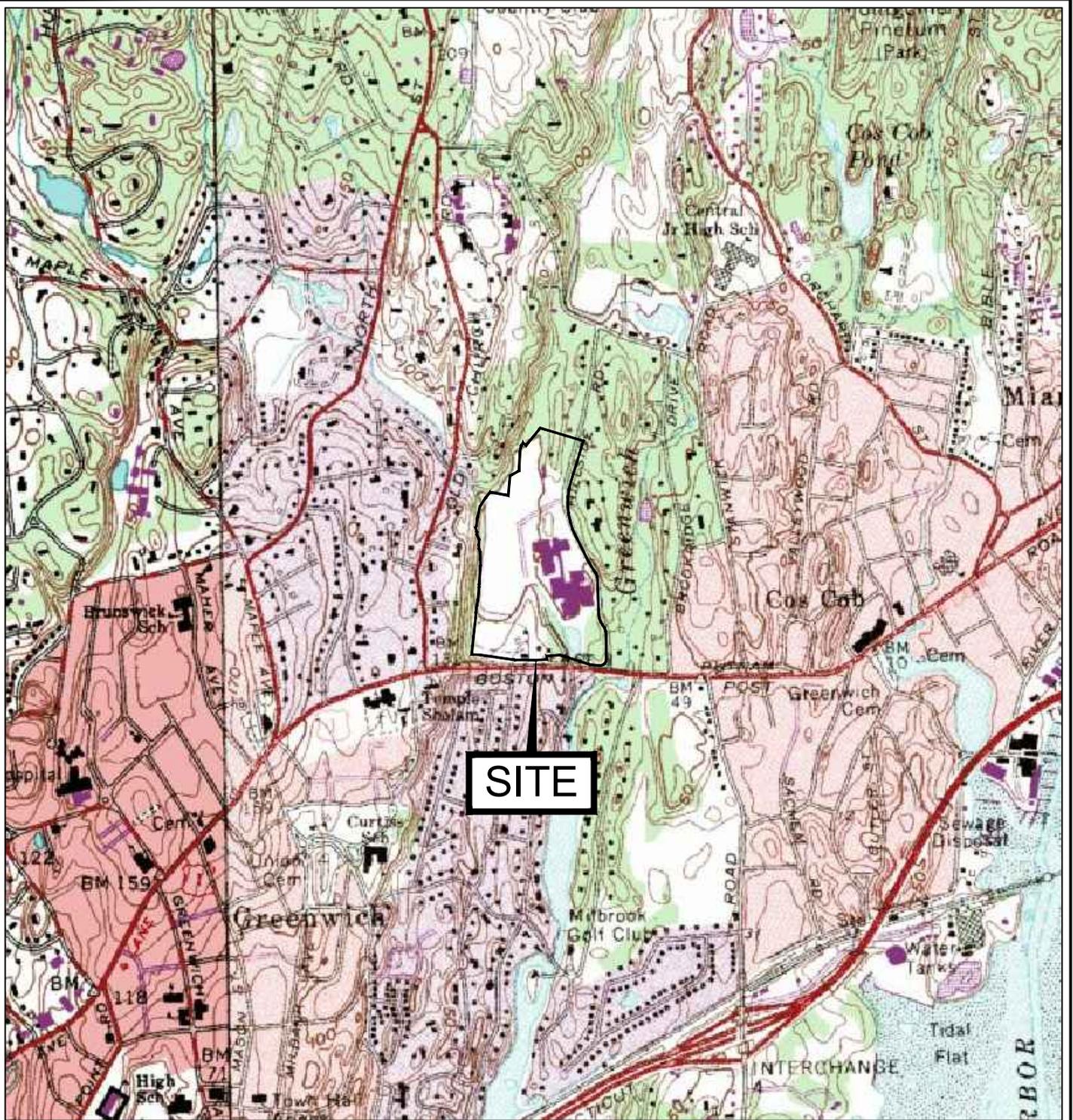
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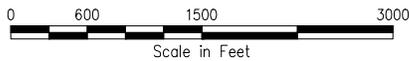
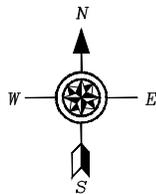
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## Figures



QUADRANGLE LOCATION



Scale in Feet

SOURCE: MAPCARD - USGS STAMFORD, CT QUAD. 1984  
 LAT 41.0399 LONG. -73.6127 ELEVATION = 63'

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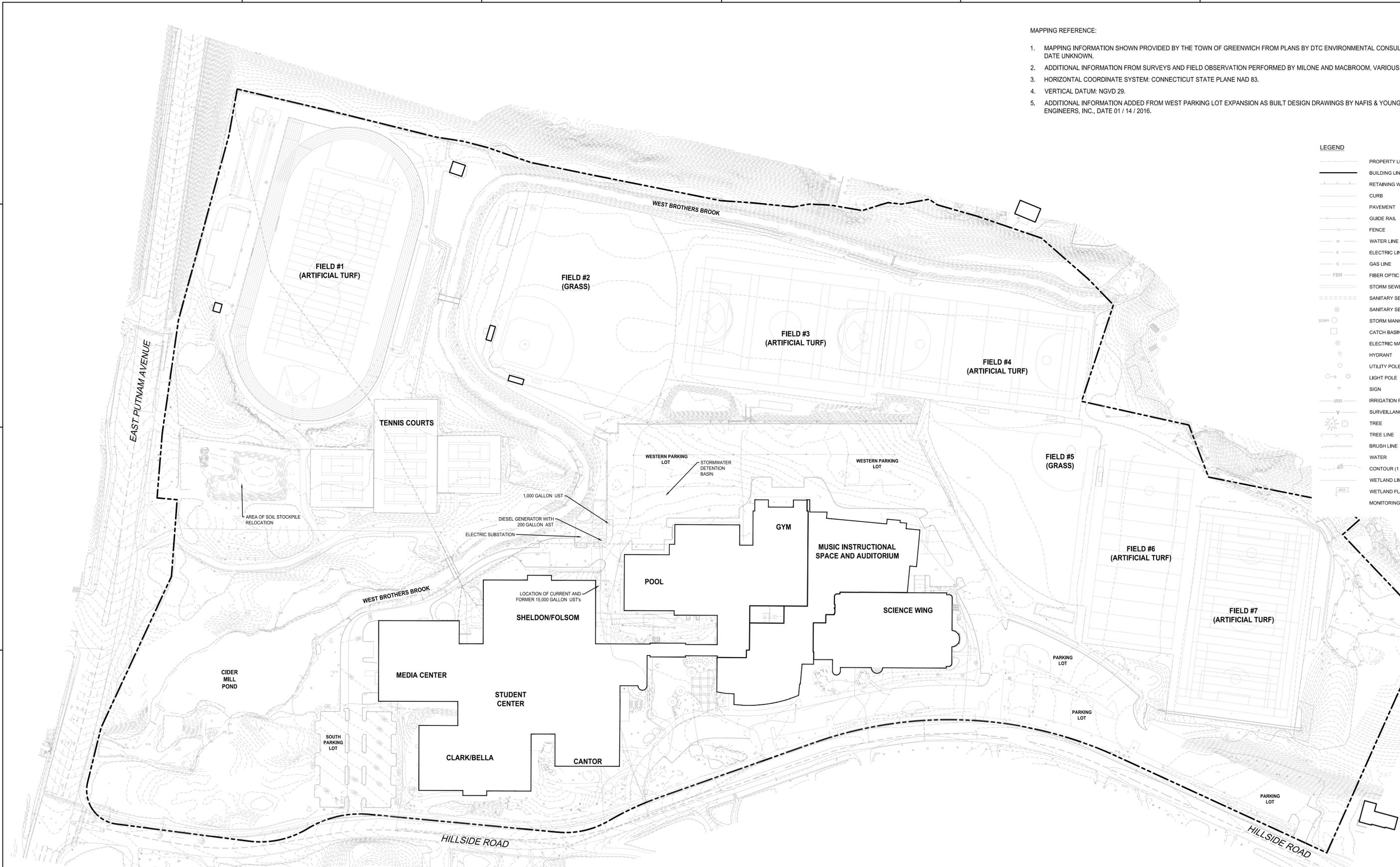
**FIGURE 2-1**  
**SITE LOCATION**  
 GREENWICH HIGH SCHOOL  
 10 HILLSIDE ROAD, GREENWICH, CT

DATE:	PROJECT NUMBER:	FIG. No:
JANUARY 2019	60432356	2-1

PATH/FILENAME: P:\0225155 GREENWICH HS\00-WORK\10-04\20-SHEETS\2019-COMPLETION OF INVESTIGATION REPORT\FIGURE 2-2 SITE PLAN.DWG  
 LAST UPDATE: Tuesday, April 30, 2019 3:33:50 PM  
 PLOT DATE: Tuesday, April 30, 2019 3:59:10 PM  
 ARCH D - 3-7-05

- MAPPING REFERENCE:
1. MAPPING INFORMATION SHOWN PROVIDED BY THE TOWN OF GREENWICH FROM PLANS BY DTC ENVIRONMENTAL CONSULTANTS, DATE UNKNOWN.
  2. ADDITIONAL INFORMATION FROM SURVEYS AND FIELD OBSERVATION PERFORMED BY MILONE AND MACBROOM, VARIOUS DATES.
  3. HORIZONTAL COORDINATE SYSTEM: CONNECTICUT STATE PLANE NAD 83.
  4. VERTICAL DATUM: NGVD 29.
  5. ADDITIONAL INFORMATION ADDED FROM WEST PARKING LOT EXPANSION AS BUILT DESIGN DRAWINGS BY NAFIS & YOUNG ENGINEERS, INC., DATE 01 / 14 / 2016.

LEGEND	
	PROPERTY LINE
	BUILDING LINE
	RETAINING WALL
	CURB
	PAVEMENT
	GUIDE RAIL
	FENCE
	WATER LINE
	ELECTRIC LINE
	GAS LINE
	FIBER OPTIC LINE
	STORM SEWER PIPING
	SANITARY SEWER PIPING
	SANITARY SEWER MANHOLE
	STORM MANHOLE
	CATCH BASIN
	ELECTRIC MANHOLE
	HYDRANT
	UTILITY POLE
	LIGHT POLE
	SIGN
	IRRIGATION PIPING
	SURVEILLANCE LINE
	TREE
	TREE LINE
	BRUSH LINE
	WATER
	CONTOUR (1 FT. INTERVAL)
	WETLAND LIMITS
	WETLAND FLAG
	MONITORING WELL



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SCALE:  
 1" = 80'  
 SCALE FEET

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

GREENWICH HIGH SCHOOL  
 10 HILLSIDE RD  
 GREENWICH, CT

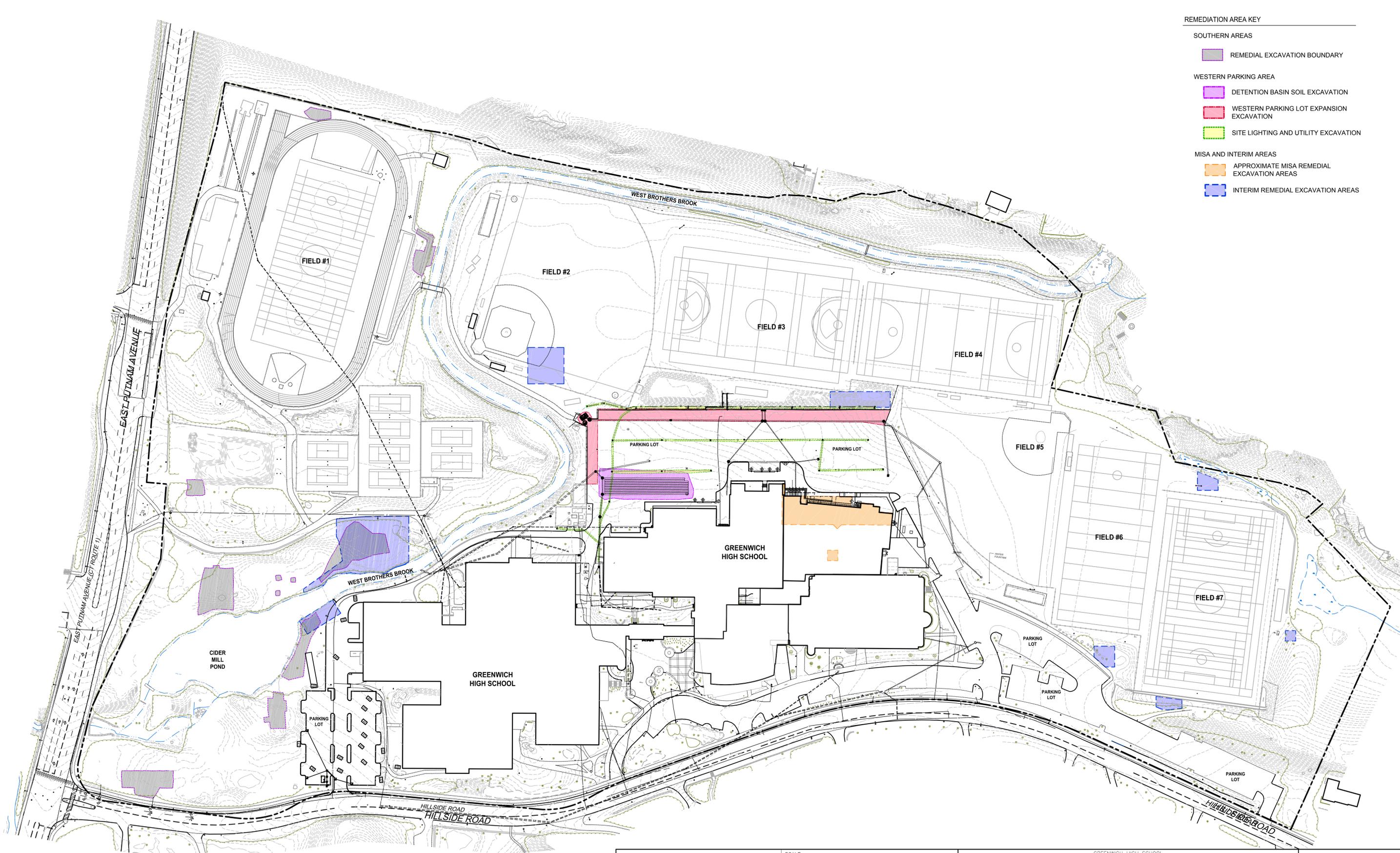
**FIGURE 2-2**  
**GREENWICH HIGH SCHOOL**  
**EXISTING CONDITIONS PLAN**  
**COMPLETION OF INVESTIGATION REPORT**

DATE: APRIL 2019

JOB	60432356
FILE NO.	
CAD FILE	FIGURE 2-2 SITE PLAN
SHEET	2-2

P:\PROJECTS\155 GREENWICH HS\00-WORK\10-CAD\20-SHEETS\2017-FIGURES\2017-SITE-ADMS.DWG  
 LAST UPDATE: Friday, April 07, 2017 4:48:26 PM  
 PLOT DATE: Friday, April 07, 2017 4:48:49 PM  
 ARCH D - 3-7-05

- REMEDIAL AREA KEY**
- SOUTHERN AREAS**
    - REMEDIAL EXCAVATION BOUNDARY
  - WESTERN PARKING AREA**
    - DETENTION BASIN SOIL EXCAVATION
    - WESTERN PARKING LOT EXPANSION EXCAVATION
    - SITE LIGHTING AND UTILITY EXCAVATION
  - MISA AND INTERIM AREAS**
    - APPROXIMATE MISA REMEDIAL EXCAVATION AREAS
    - INTERIM REMEDIAL EXCAVATION AREAS



<p>           AECOM Environment            500 ENTERPRISE DR. STE 1A            ROCKY HILL, CT 06067            (860) 263-5800            www.aecom.com         </p>	<p>SCALE:</p> <p>1" = 80'</p> <p>SCALE FEET</p>	<p>GREENWICH HIGH SCHOOL            10 HILLSIDE RD            GREENWICH, CT</p> <p><b>FIGURE 2-3</b>  <b>INTERIM REMEDIAL MEASURES AND            PREVIOUS REMEDIATION AREAS</b></p>	<p>JOB _____ 60432356</p> <p>FILE NO. _____</p> <p>CAD FILE _____ 2017-SITE ADRS</p> <p>SHEET _____ 1 OF 1</p>
	<p>UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION</p>	<p>JANUARY 2019</p>	



Path: \\Warrior\Projects\Files\Greenwich\GIS\BIM\02\Figure\_2-4\_Depth\_to\_Bedrock.mxd

- Legend**
- ⊕ Soil Survey Locations
  - 5 Foot Contour
  - 1 Foot Contour

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SCALE:

0      75      150      300  
Feet

1" = 208'  
SCALE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

FIGURE 2-4  
DEPTH TO BEDROCK CONTOUR MAP  
COMPLETION OF INVESTIGATION REPORT

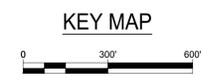
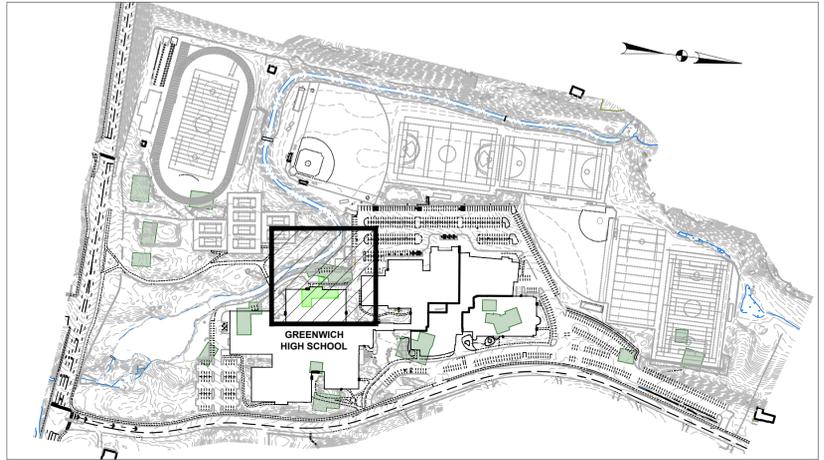
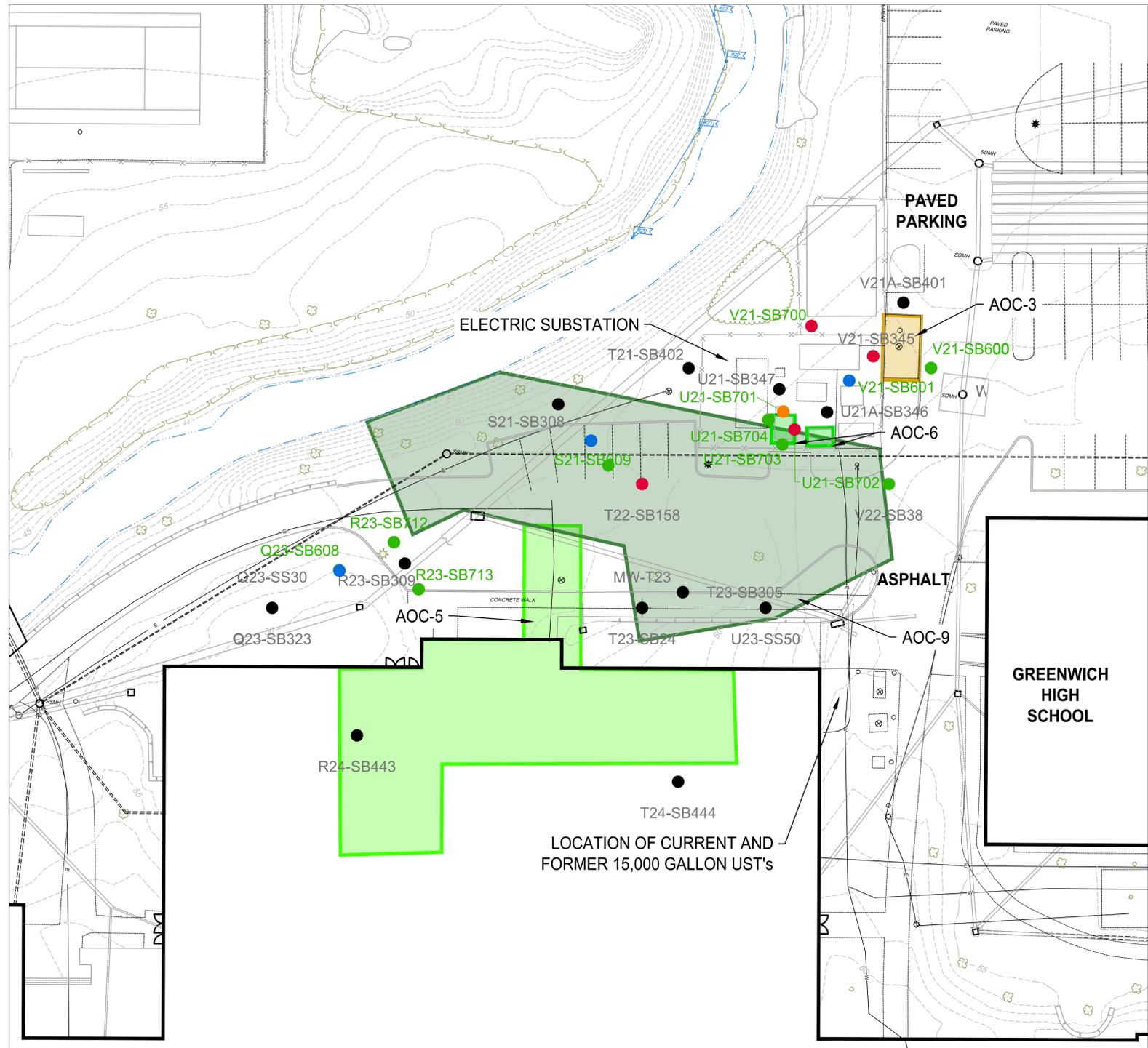
JOB \_\_\_\_\_ 60432356

FILE NO. \_\_\_\_\_

CAD FILE \_\_\_\_\_

SHEET \_\_\_\_\_





- AREAS OF CONCERN**
- AOC 3 - 1,000 GALLON UST
  - AOC 5 - BOILER ROOM
  - AOC 6 - TRANSFORMERS
  - AOC 9 - FORMER RESIDENCES

- LEGEND**
- 2018 DATA GAP SAMPLE LOCATION (AECOM)
  - OLDER SOIL SAMPLE LOCATION - NO EXCEEDANCES
  - SOIL SAMPLE LOCATION - GA PMC EXCEEDANCE FOR LEAD
  - SOIL SAMPLE LOCATION - R DEC EXCEEDANCE FOR PCB's
  - SOIL SAMPLE LOCATION - R DEC / GA PMC EXCEEDANCE FOR ETPH
  - SOIL SAMPLE LOCATION - MULTIPLE EXCEEDANCES

PLAN

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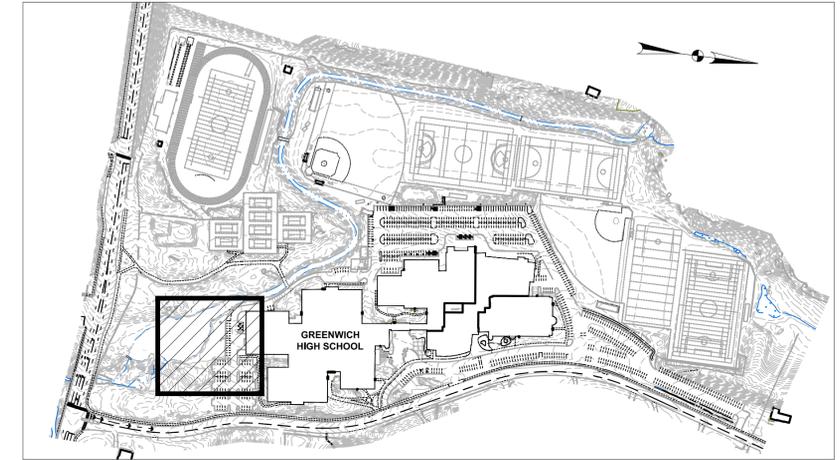
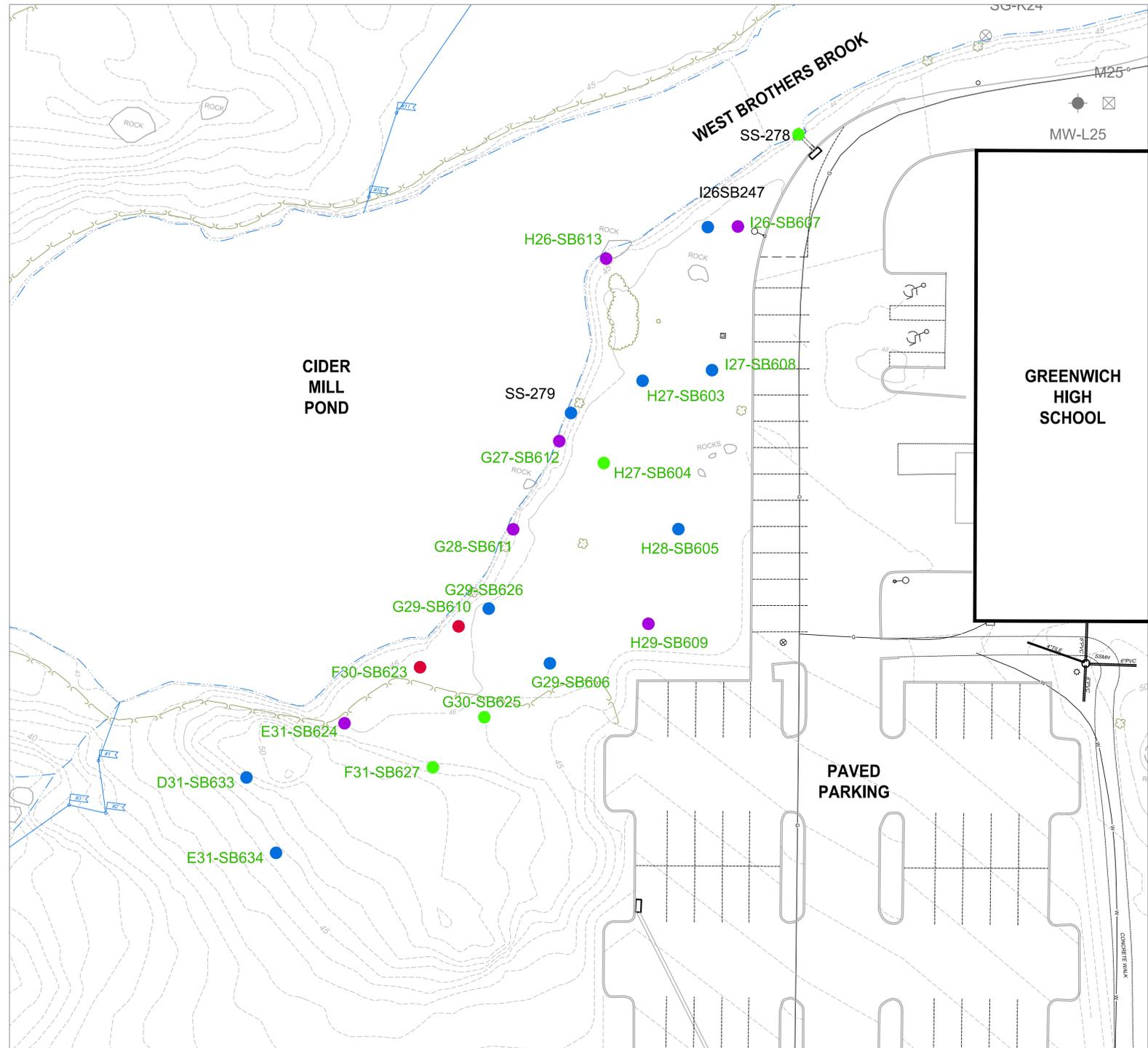
GREENWICH HIGH SCHOOL  
10 HILLSIDE RD  
GREENWICH, CT

**FIGURE 4-1**  
AOC's 3, 5, 6, and 9 SAMPLING LOCATIONS  
COMPLETION OF INVESTIGATION REPORT

DATE: APRIL 2019

JOB	60432356
FILE NO.	
CAD FILE	60432356_PHASE-2-3_COMP_R_AOC3-5-6-9
SHEET	4-1

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 PLOT DATE: Tuesday, April 30, 2019 4:00:01 PM  
 ARCH D - 3-7-05



- LEGEND**
- PESTICIDES < RSR CRITERIA
  - PESTICIDES > GA PMC
  - PESTICIDES > R DEC
  - PESTICIDES > SEH THRESHOLD

PLAN

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10 HILLSIDE RD  
GREENWICH, CT

**FIGURE 4-2**  
AOC 8 SAMPLING LOCATIONS AND RESULTS  
COMPLETION OF INVESTIGATION REPORT

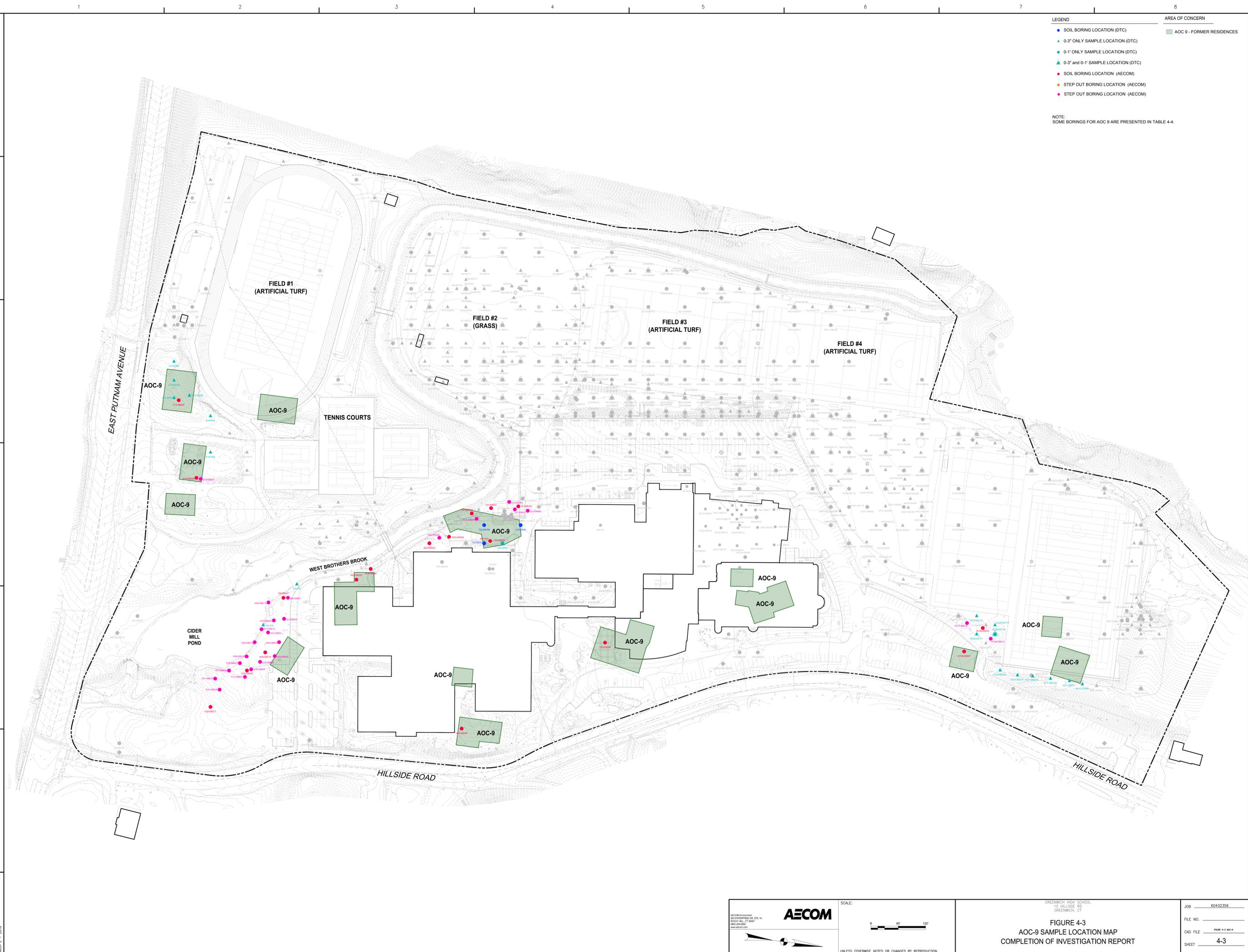
DATE: APRIL 2019

JOB	60432356
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SHEET	4-2

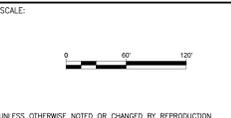
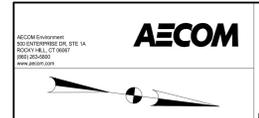
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 LAST UPDATE: Wednesday, May 01, 2019 10:28:02 AM  
 PLOT DATE: Wednesday, May 01, 2019 10:28:36 AM  
 ARCH D - 3-7-05

- | LEGEND                                | AREA OF CONCERN             |
|---------------------------------------|-----------------------------|
| ● SOIL BORING LOCATION (DTC)          | ■ AOC 9 - FORMER RESIDENCES |
| ▲ 0-3" ONLY SAMPLE LOCATION (DTC)     |                             |
| ● 0-1" ONLY SAMPLE LOCATION (DTC)     |                             |
| ▲ 0-3" and 0-1" SAMPLE LOCATION (DTC) |                             |
| ● SOIL BORING LOCATION (AECOM)        |                             |
| ● STEP OUT BORING LOCATION (AECOM)    |                             |
| ● STEP OUT BORING LOCATION (AECOM)    |                             |

NOTE:  
SOME BORINGS FOR AOC 9 ARE PRESENTED IN TABLE 4.4.



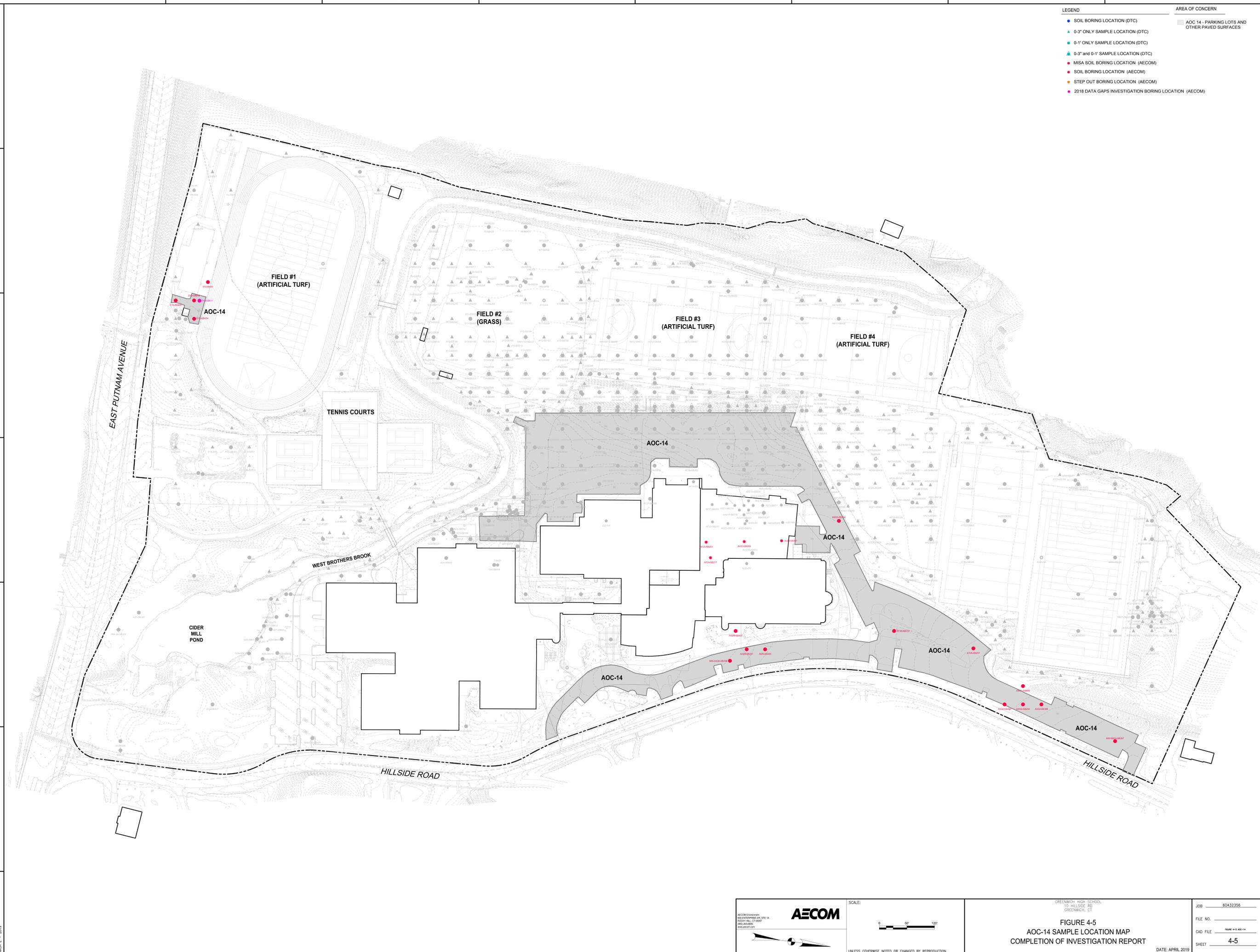
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 LAST UPDATE: Tuesday, April 30, 2019 3:25:58 PM  
 PLOT DATE: Tuesday, April 30, 2019 4:50:05 PM  
 AOC 9 - 2019



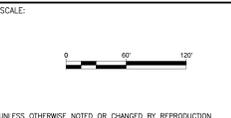
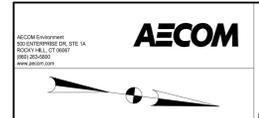
GREENWICH HIGH SCHOOL 10 HILLSIDE RD GREENWICH, CT		JOB: 60432356
<b>FIGURE 4-3</b> <b>AOC-9 SAMPLE LOCATION MAP</b> <b>COMPLETION OF INVESTIGATION REPORT</b>		FILE NO.: CAD FILE: FIGURE 4-3_AOC-9 SHEET: 4-3



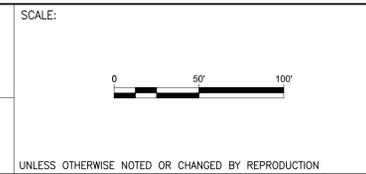
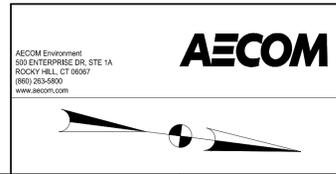
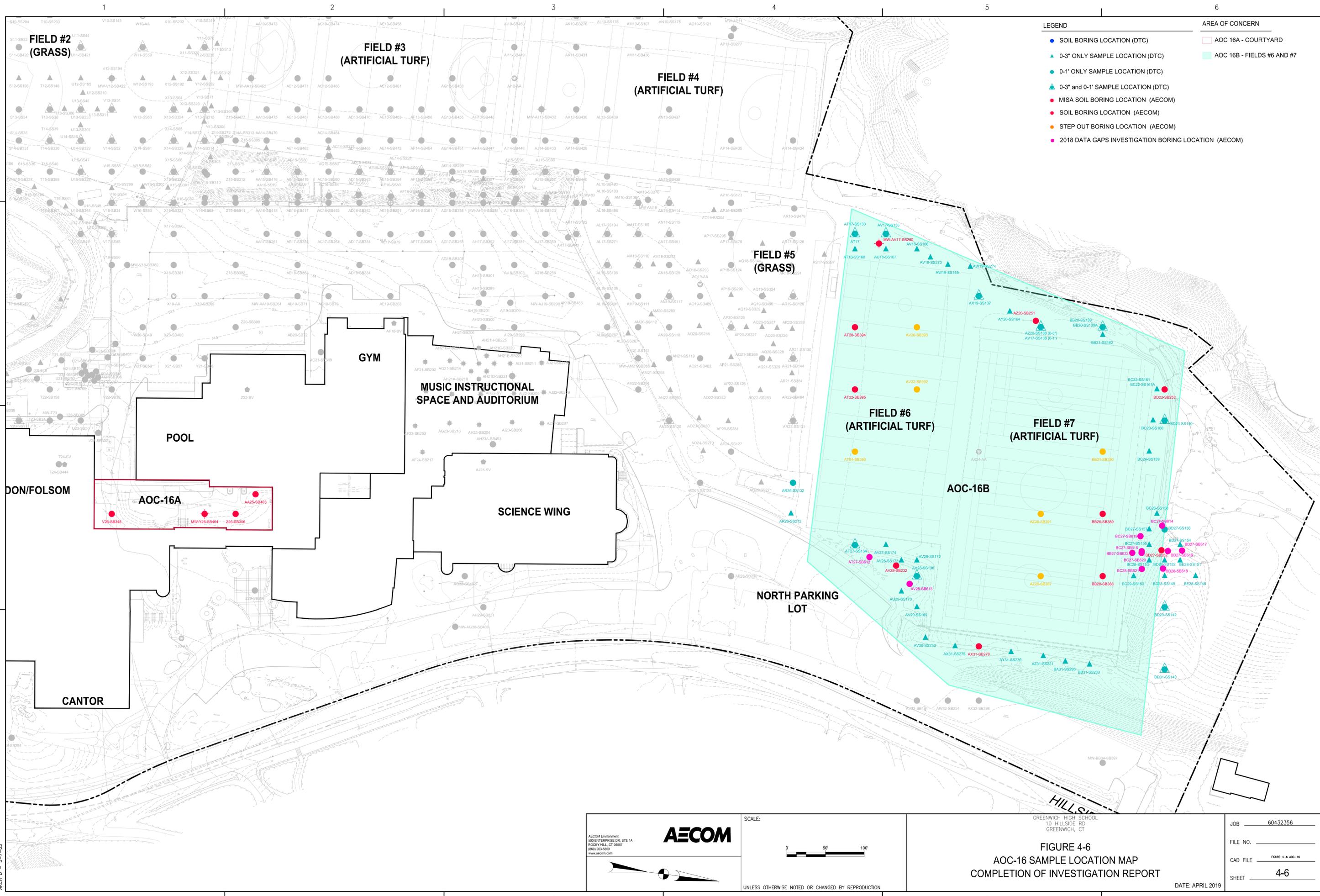
- | LEGEND   | AREA OF CONCERN                                  |
|--|--|
| ● SOIL BORING LOCATION (DTC)                           | ■ AOC 14 - PARKING LOTS AND OTHER PAVED SURFACES |
| ▲ 0-3" ONLY SAMPLE LOCATION (DTC)                      |  |
| ● 0-1" ONLY SAMPLE LOCATION (DTC)                      |  |
| ▲ 0-3" and 0-1" SAMPLE LOCATION (DTC)                  |  |
| ● MISA SOIL BORING LOCATION (AECOM)                    |  |
| ● SOIL BORING LOCATION (AECOM)                         |  |
| ● STEP OUT BORING LOCATION (AECOM)                     |  |
| ● 2018 DATA GAPS INVESTIGATION BORING LOCATION (AECOM) |  |



PLAN/FILENAME: P:\0222105 GREENWICH HS\000\WORK\916-CAD\03-SHEETS\019-COMPLETION OF INVESTIGATION REPORT\Figure 4-5\_AOC-14.rvt  
 LAST UPDATE: Tuesday, April 30, 2019 3:57:51 PM  
 PLOT DATE: Tuesday, April 30, 2019 4:51:31 PM  
 AECOM E - 2019



GREENWICH HIGH SCHOOL 10 HILLSIDE RD GREENWICH, CT		JOB: 60432356
<b>FIGURE 4-5</b> <b>AOC-14 SAMPLE LOCATION MAP</b> <b>COMPLETION OF INVESTIGATION REPORT</b>		FILE NO.: CAD FILE: 916-4-5-00-14 SHEET: 4-5
		DATE: APRIL 2019



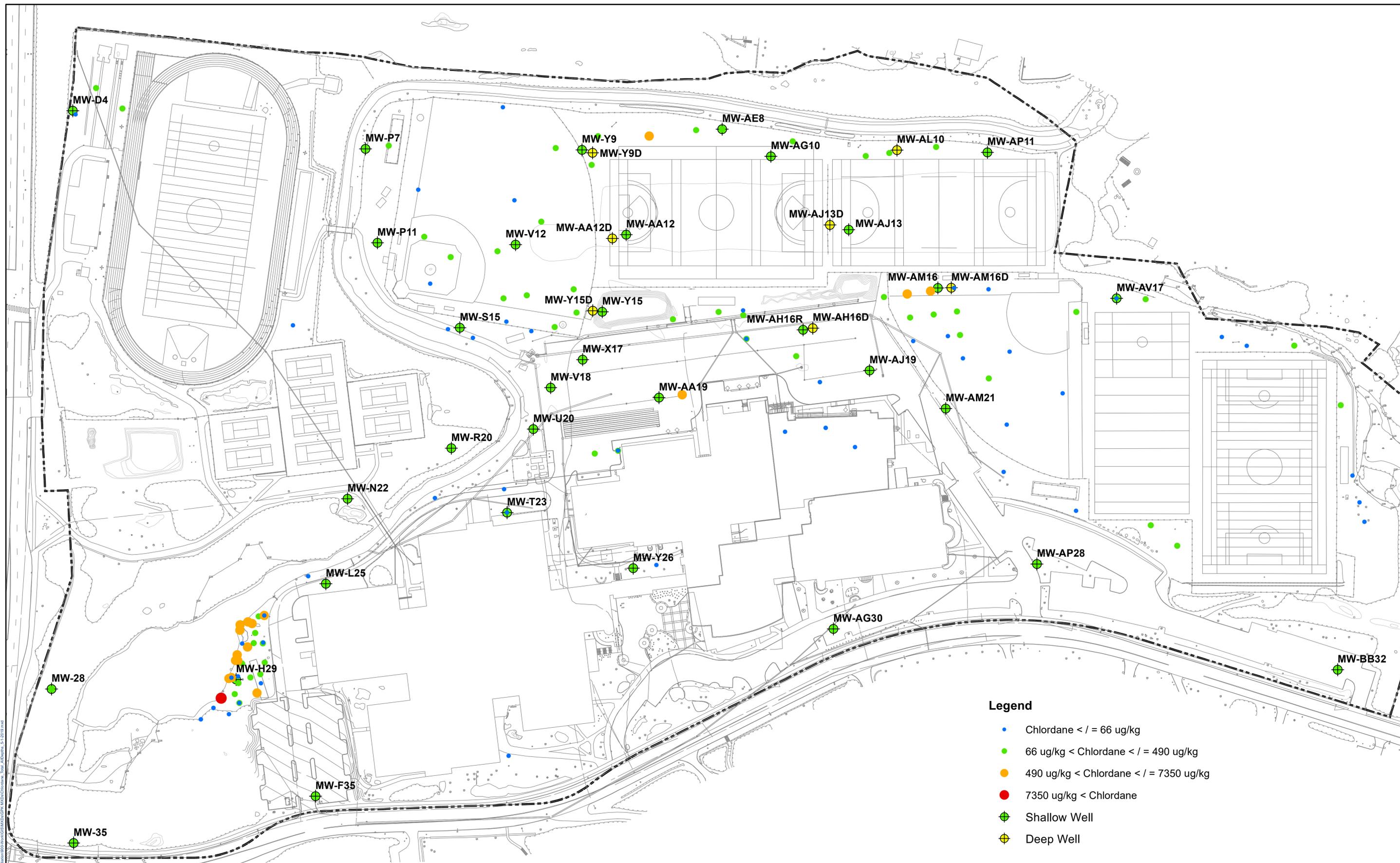
GREENWICH HIGH SCHOOL  
10 HILLSIDE RD  
GREENWICH, CT

**FIGURE 4-6**  
**AOC-16 SAMPLE LOCATION MAP**  
**COMPLETION OF INVESTIGATION REPORT**

DATE: APRIL 2019

JOB	60432356
FILE NO.	
CAD FILE	FIGURE 4-6 AOC-16
SHEET	4-6

P:\0225155 GREENWICH HS\00-WORK\10-CAD\20-SHEETS\2015-COMPLETION OF INVESTIGATION REPORT\FIGURE 4-6 AOC-16.DWG  
 LAST UPDATE: Wednesday, May 01, 2019 9:51:17 AM  
 PLOT DATE: Wednesday, May 01, 2019 9:51:42 AM  
 ARCH D - 3-7-05



**Legend**

- Chlordane ≤ 66 ug/kg
- 66 ug/kg < Chlordane ≤ 490 ug/kg
- 490 ug/kg < Chlordane ≤ 7350 ug/kg
- 7350 ug/kg < Chlordane
- ⊕ Shallow Well
- ⊕ Deep Well

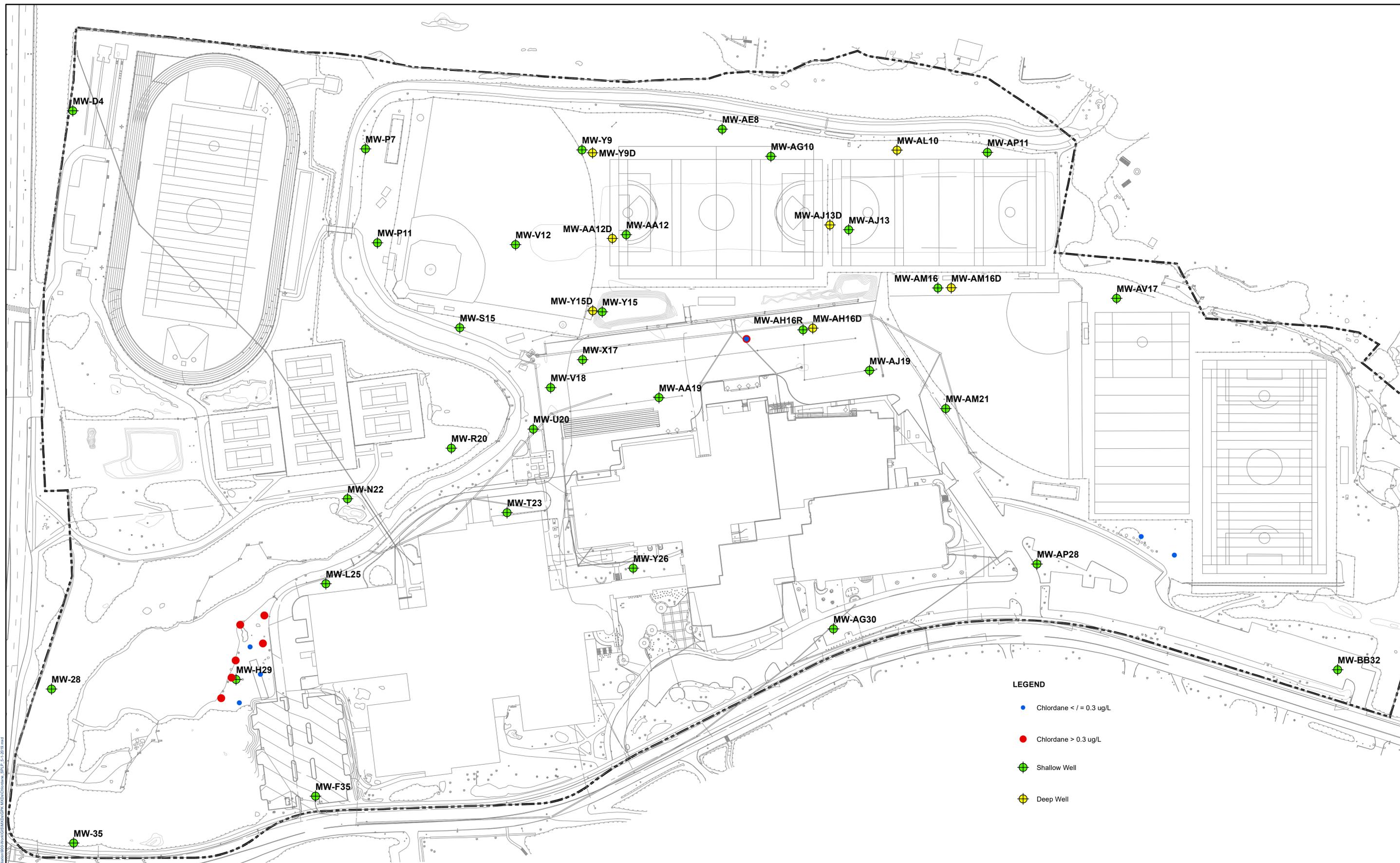
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SCALE:  
  
 1" = 70' SCALE  
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

**SITE-WIDE TOTAL CHLORDANE SOIL SAMPLE RESULTS**  
 GREENWICH HIGH SCHOOL  
 10 HILLSIDE ROAD  
 GREENWICH, CT

PROJECT NUMBER:  
 60432356  
 FIGURE:  
**4-7**

Path: X:\60432356\_Greenwich High School Remediation\60432356\GIS\MapDocs\Chlordane\_Soil\_Atlas.mxd, 3/1/2019.mxd



**LEGEND**

- Chlordane <math>< 0.3 \text{ ug/L}</math>
- Chlordane >math>> 0.3 \text{ ug/L}</math>
- ⊕ Shallow Well
- ⊕ Deep Well

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SCALE:  
0 35 70 140 210  
Feet  
1" = 70' SCALE

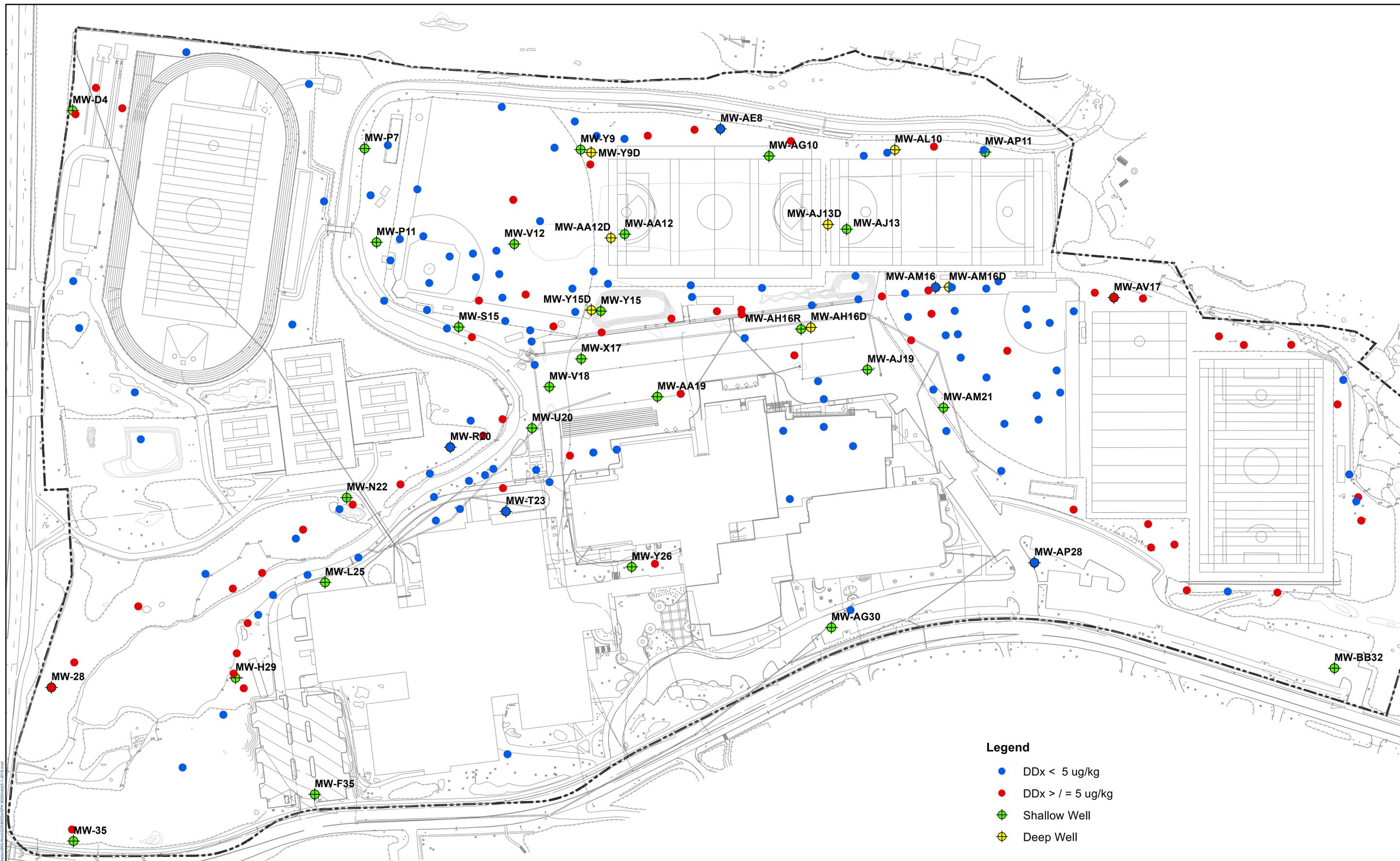
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SITE-WIDE CHLORDANE SPLP SOIL SAMPLE RESULTS  
GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

PROJECT NUMBER:  
60432356

FIGURE:  
**4-8**

Path: X:\60432356\_Greenwich High School Remediation\60432356\GIS\MapDocs\GPR\_MW\Chlordane\_SPLP\_5-1-2018.mxd



**Legend**

- DDX < 5 ug/kg
- DDX > / = 5 ug/kg
- ⊕ Shallow Well
- ⊕ Deep Well

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AECOM

N  
↑

SCALE:  
0 35 70 140 210  
Feet  
1" = 70' SCALE

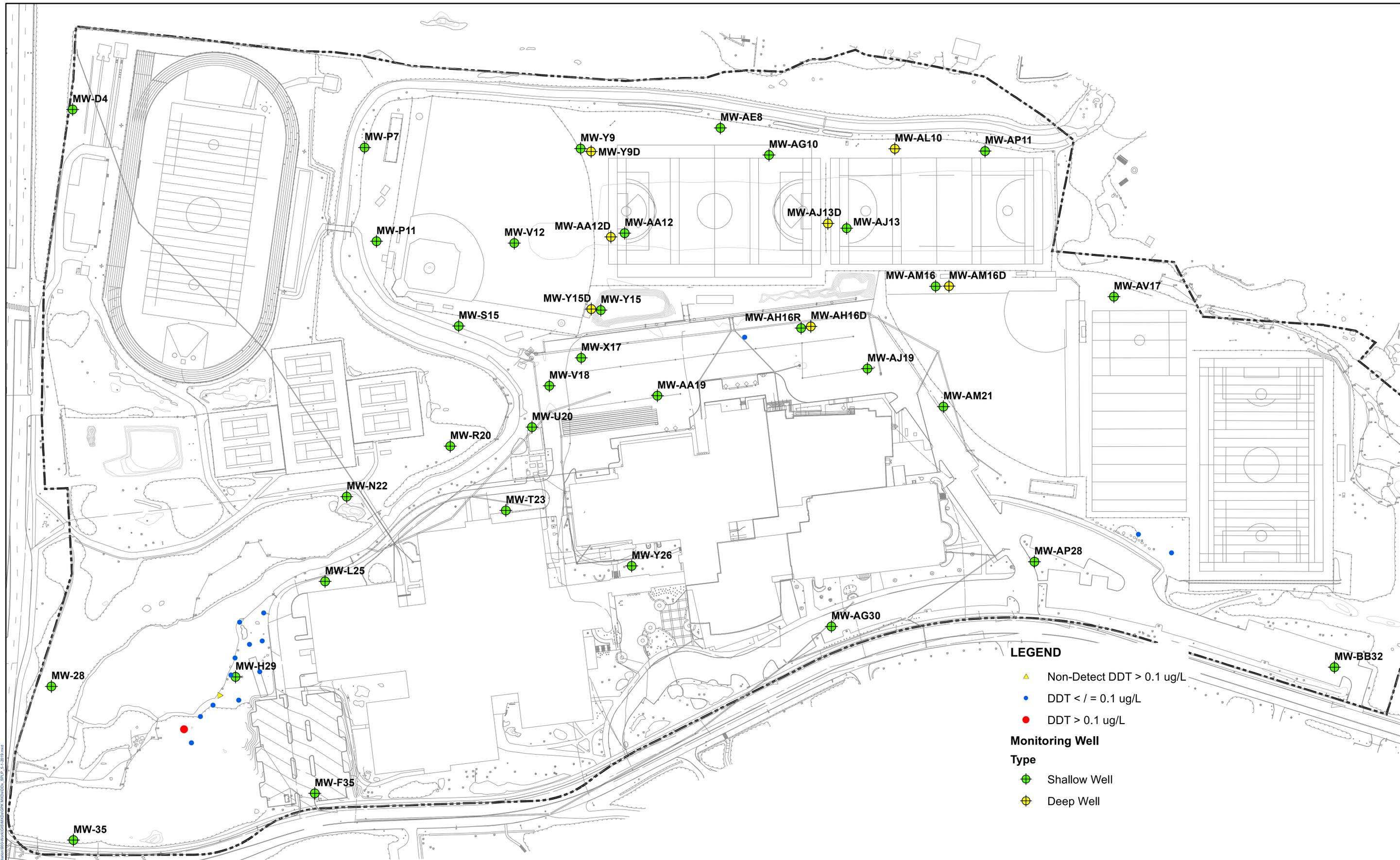
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SITE-WIDE TOTAL DDX SOIL SAMPLE RESULTS  
GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

PROJECT NUMBER:  
60432356

FIGURE:  
**4-9**

Path: X:\60432356\_Greenwich High School Remediation\900\Views\GIS\MapDocs\GPR\_MW04dd45-12018.mxd



**LEGEND**

- ▲ Non-Detect DDT > 0.1 ug/L
- DDT < / = 0.1 ug/L
- DDT > 0.1 ug/L

**Monitoring Well**

**Type**

- ⊕ Shallow Well
- ⊕ Deep Well

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AECOM Environment  
 500 ENTERPRISE DR. STE 1A  
 ROCKY HILL, CT 06867  
 (860) 265-5900  
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SCALE:  
 0 35 70 140 210 Feet  
 1" = 70' SCALE

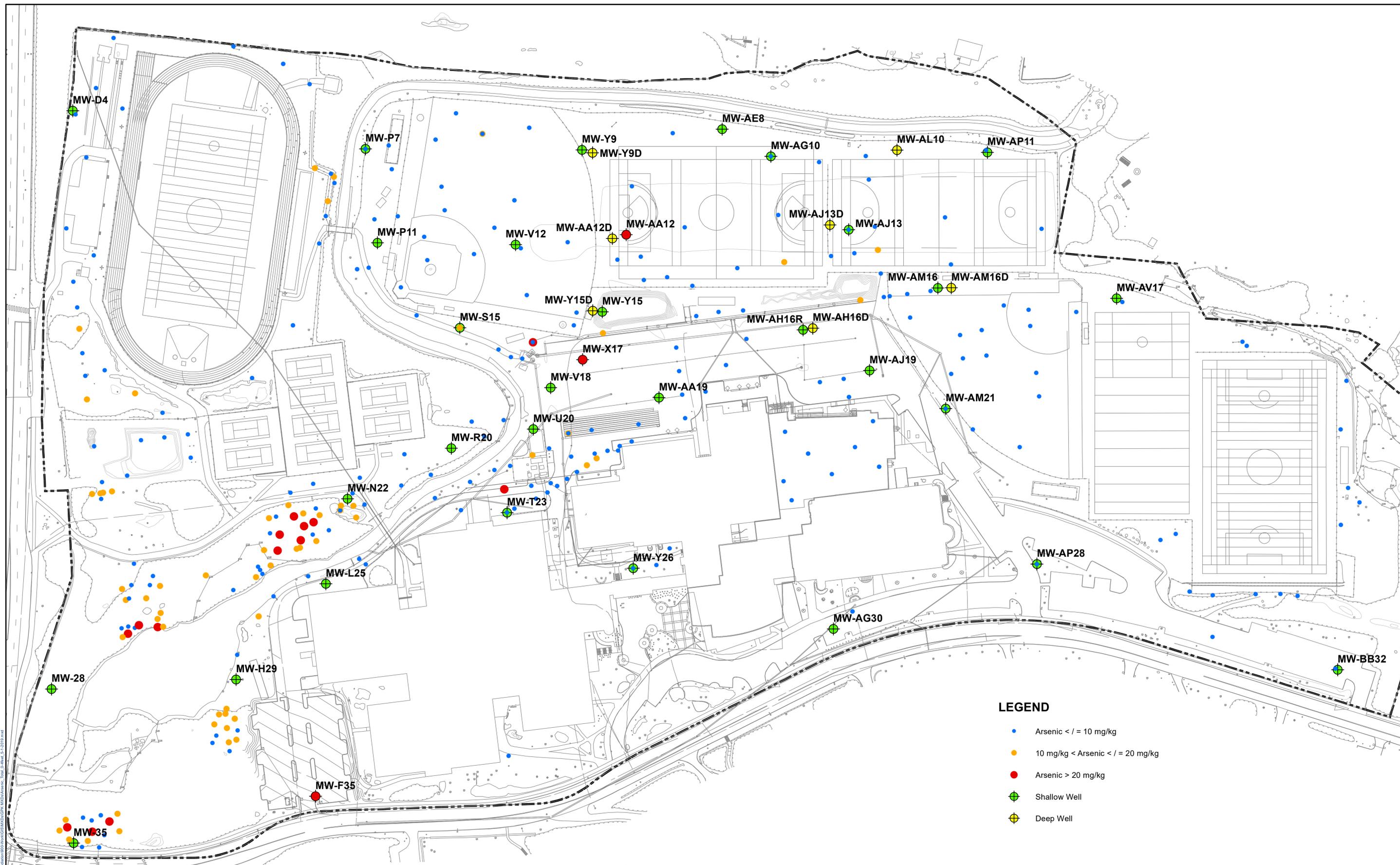
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SITE-WIDE DDx SPLP SOIL SAMPLE RESULTS  
 GREENWICH HIGH SCHOOL  
 10 HILLSIDE ROAD  
 GREENWICH, CT

PROJECT NUMBER:  
 60432356

FIGURE:  
**4-10**

Path: X:\60432356\_Greenwich High School Remediation\900\Views\GIS\MapDocs\GPK\_MWD\DDx\_SPLP\_5-1-2018.mxd



**LEGEND**

- Arsenic < / = 10 mg/kg
- 10 mg/kg < Arsenic < / = 20 mg/kg
- Arsenic > 20 mg/kg
- Shallow Well
- Deep Well

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N  
Z

SCALE:  
0 35 70 140 210  
Feet  
1" = 70' SCALE

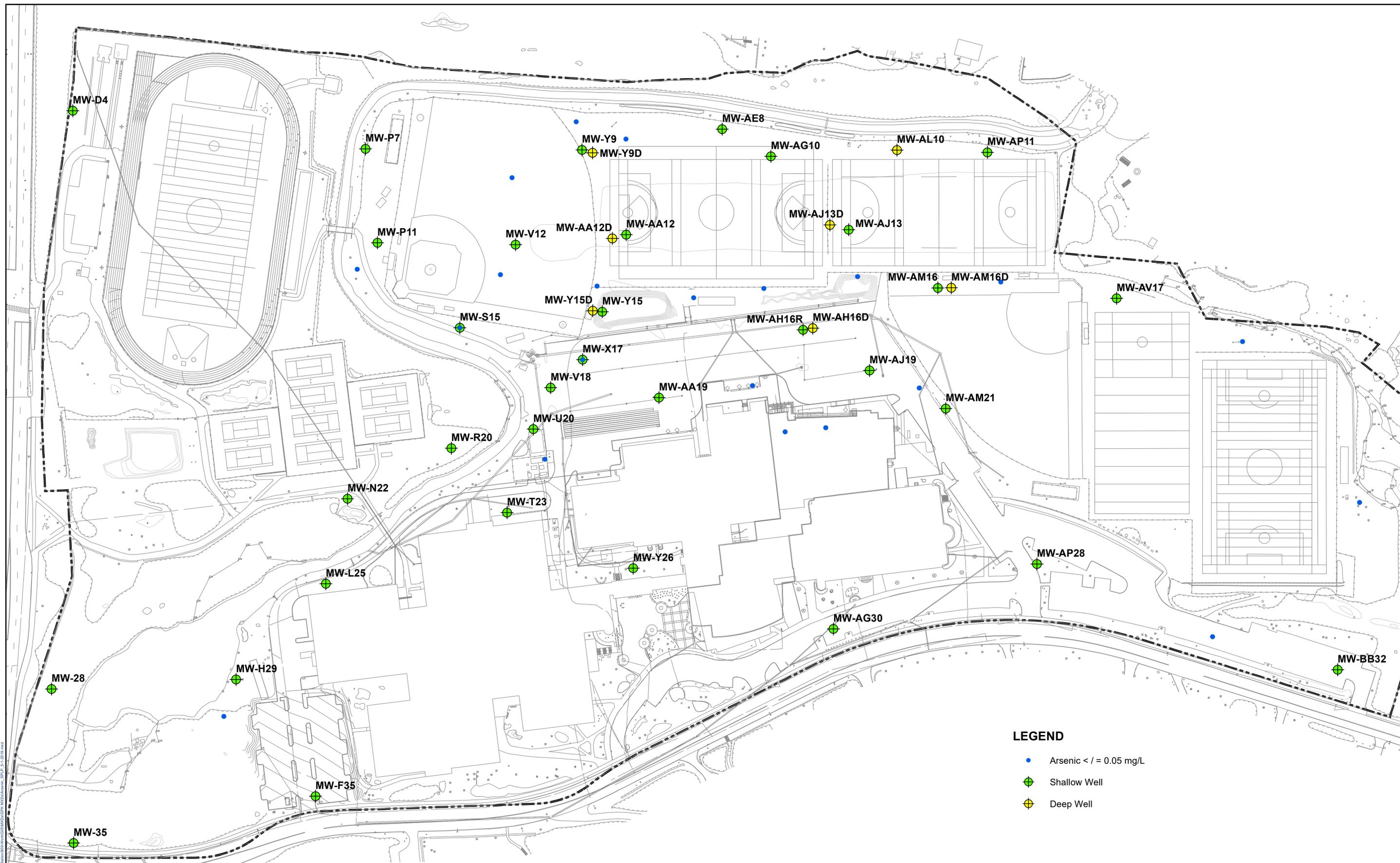
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SITE-WIDE TOTAL ARSENIC (0-4 FEET) SOIL SAMPLE RESULTS  
GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

PROJECT NUMBER:  
60432356

FIGURE:  
**4-11**

Path: X:\60432356\_Greenwich High School Remediation\000\Views\GIS\MXD\GPR\_MXD\Arsenic\_Totals\_Drillwells\_5-1-2018.mxd

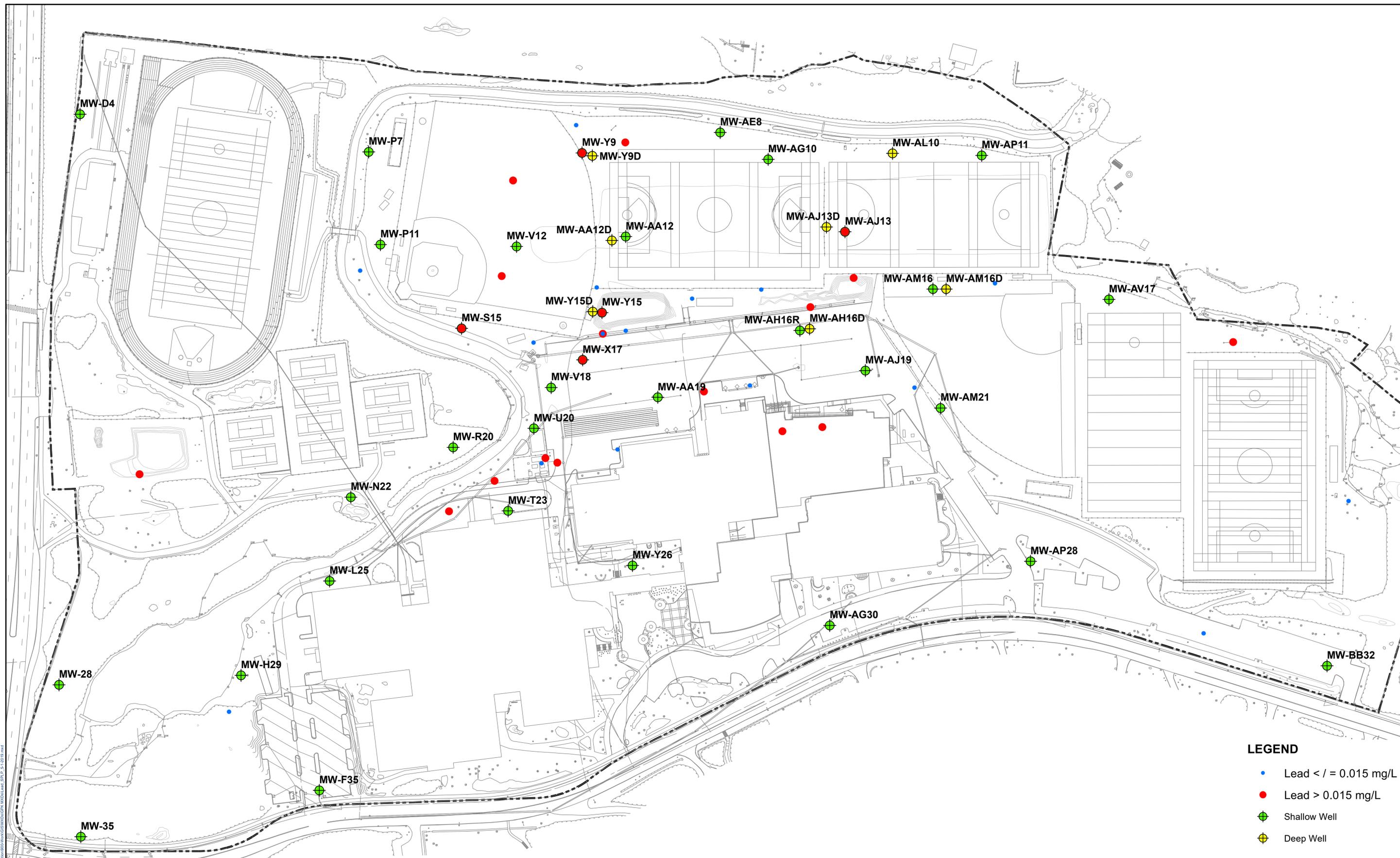


**LEGEND**

- Arsenic < / = 0.05 mg/L
- ⊕ Shallow Well
- ⊕ Deep Well

Path: X:\60432356\_Greenwich High School Remediation\60432356\GIS\MapDocs\GPR\_Maps\Arsenic\_SPLP\_4-12010.mxd

<p style="font-size: 8px; margin: 0;">AECOM Environment 500 ENTERPRISE DR., STE 1A ROCKY HILL, CT 06867 (860) 265-5000 www.aecom.com</p>	<p style="font-size: 8px; margin: 0;">SCALE: 0 35 70 140 210 Feet 1" = 70' SCALE</p>	<p style="margin: 0;">SITE-WIDE ARSENIC SPLP SOIL SAMPLE RESULTS GREENWICH HIGH SCHOOL 10 HILLSIDE ROAD GREENWICH, CT</p>	<p style="font-size: 8px; margin: 0;">PROJECT NUMBER: 60432356</p> <p style="font-size: 8px; margin: 0;">FIGURE: <b>4-12</b></p>
	<p>UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION</p>		



**LEGEND**

- Lead  $\leq$  0.015 mg/L
- Lead  $>$  0.015 mg/L
- ⊕ Shallow Well
- ⊕ Deep Well

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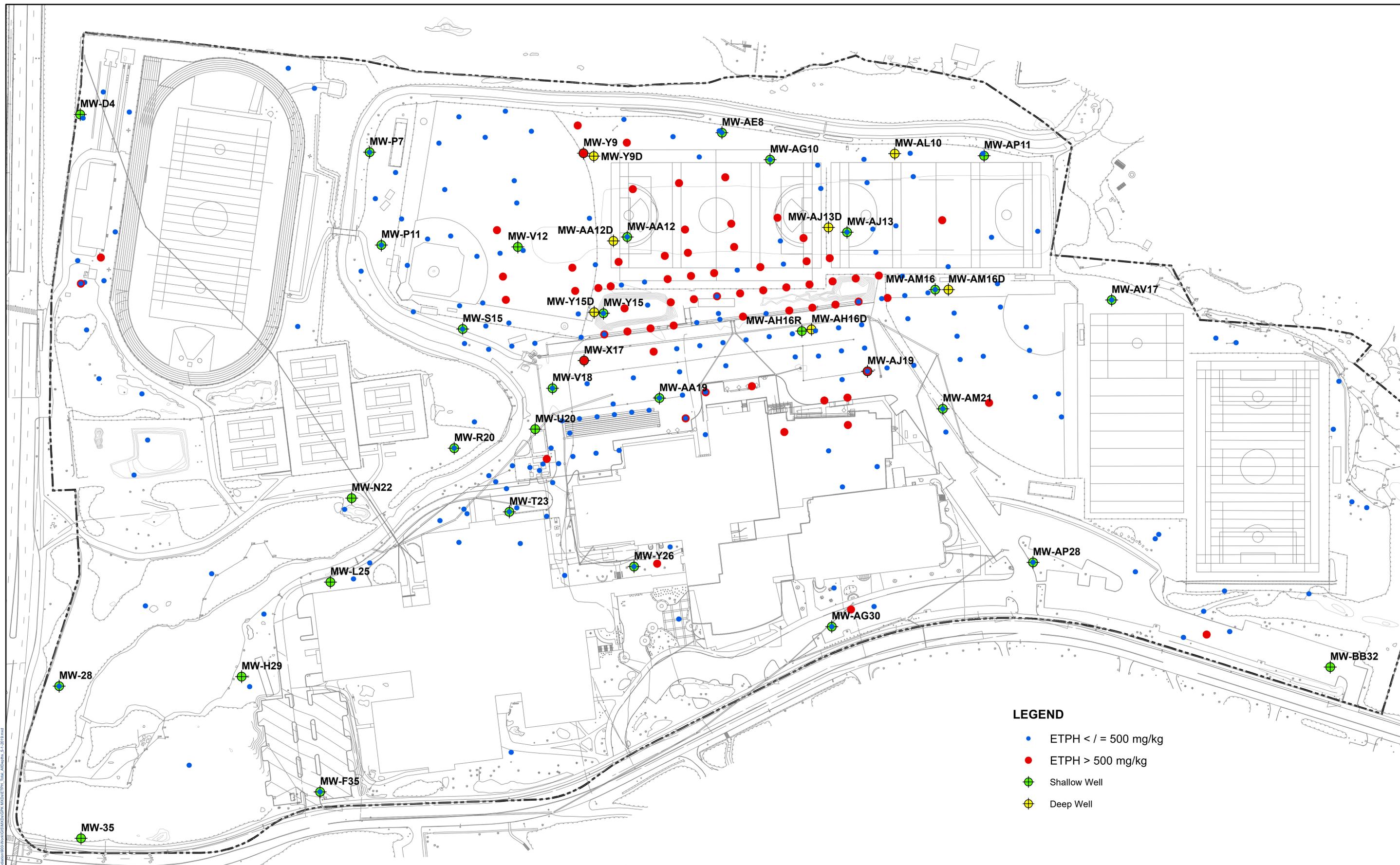
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SITE-WIDE LEAD SPLP SOIL SAMPLE RESULTS  
GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

PROJECT NUMBER:  
60432356

FIGURE:  
**4-13**

Path: X:\60432356\_Greenwich High School Remediation\60432356\GIS\MapDocs\GPR\_Maps\Level\_SPL\_P\_5-120119.mxd



**LEGEND**

- ETPH < / = 500 mg/kg
- ETPH > 500 mg/kg
- ⊕ Shallow Well
- ⊕ Deep Well

Path: X:\60432356\_Greenwich High School Remediation\900\Views\GIS\MapDocs\GPR\_Maps\ETPH\_10112019.mxd

  
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SCALE:  
 0 35 70 140 210 Feet  
 1" = 70' SCALE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

**SITE-WIDE ETPH SOIL SAMPLE RESULTS**  
 GREENWICH HIGH SCHOOL  
 10 HILLSIDE ROAD  
 GREENWICH, CT

PROJECT NUMBER:  
60432356

FIGURE:  
**5-1**

## Tables

**Table 4-1  
Soil Analytical Data  
AOC-3  
1,000-Gallon UST  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-3 T21-SB402 1 - 2 ft T21-SB402 (1-2)-062712-1 6/27/2012 SB51902	AOC-3 T21-SB402 6.5 - 7.5 ft T21-SB402 (6.5-7.5)-062712-1 6/27/2012 SB51902	AOC-3 U21A-SB346 0.5 - 1 ft U21A-SB346(0.5-1)-040912-1 4/9/2012 SB46864	AOC-3 U21A-SB346 3 - 4 ft U21A-SB346(3-4)-040912-1 4/9/2012 SB46864	AOC-3 V21A-SB401 2 - 3 ft V21A-SB401(2-3)-062712-1 6/27/2012 SB51902	AOC-3 V21A-SB401 4 - 5 ft V21A-SB401 (4-5)-062712-1 6/27/2012 SB51902	AOC-3 V21A-SB401 5 - 5.5 ft V21A-SB401 (5-5.5)-062712-1 6/27/2012 SB51902	AOC-3 V21-SB345 1 - 2 ft V21-SB345(1-2)-040912-1 4/9/2012 SB46864	AOC-3 V21-SB345 5 - 6 ft V21-SB345(5-6)-040912-1 4/9/2012 SB46864	AOC-3 V21-SB600 5 - 6 ft V21-SB600 (5-6)-1 4/12/2018 18D0545
<b>ETPH (mg/kg)</b>												
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	< 30.6 U	NS	70.0	NS	< 29.8 U	NS	NS	600	41
<b>ETPH-SPLP (mg/l)</b>												
Aliphatic Hydrocarbons (ETPH) C9-C36	0.25	NA	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS
<b>VOCs (ug/kg)</b>												
VOCs	20	24000	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS
<b>PAHs (ug/kg)</b>												
Benzo(a)anthracene	1000	1000	NS	< 193 U	NS	398	NS	< 192 U	NS	NS	< 2110 U	NS
Benzo(a)pyrene	1000	1000	NS	< 193 U	NS	421	NS	< 192 U	NS	NS	< 2110 U	NS
Fluoranthene	5600	1000000	NS	< 193 U	NS	948	NS	< 192 U	NS	NS	4440	NS
Phenanthrene	4000	1000000	NS	< 193 U	NS	488	NS	< 192 U	NS	NS	< 2110 U	NS
Pyrene	4000	1000000	NS	< 193 U	NS	826	NS	< 192 U	NS	NS	3850	NS
Total PAHs	NE	NE	NS	< 193	NS	3081	NS	< 192	NS	NS	8290	NS
<b>Metals (mg/kg)</b>												
Antimony	NE	27	< 4.94 U	< 5.05 U	< 5.01 U	NS	< 5.51 U	< 4.91 U	< 5.06 U	< 5.10 U	< 5.75 U	NS
Arsenic	NE	10	7.18 J+	4.42 J+	3.09	NS	5.31	4.61 J+	5.87 J+	3.59	102	< 1.8
Barium	NE	4700	107	110	64.4	NS	215	81.5	333	96.9	333	NS
Beryllium	NE	2	0.592	0.910	< 0.501 U	NS	0.727	< 0.491 U	< 0.506 U	< 0.510 U	0.716	NS
Cadmium	NE	34	0.495	< 0.505 U	< 0.501 U	NS	0.552	< 0.491 U	< 0.506 U	< 0.510 U	1.04	NS
Chromium	NE	NE	31.2	37.2	25.1	NS	38.0	20.6	40.7	61.1	34.8	NS
Copper	NE	2500	19.6	10.7	17.5	NS	18.7	20.5	13.5	23.6	56.4	NS
Lead	NE	400	38.8	14.8	24.0 J	NS	28.9	65.2	21.6	16.9 J	1400 J	15
Mercury	NE	20	0.100	0.0724	< 0.0321 U	NS	< 0.0334 U	0.0882	0.0699	0.0570	0.314	NS
Nickel	NE	1400	19.1	14.5	11.7	NS	15.9	12.1	15.3	17.0	15.4	NS
Vanadium	NE	470	32.6	34.0	19.1	NS	36.2	22.7	32.8	30.4	32.7	NS
Zinc	NE	20000	64.5	37.1	67.2	NS	50.6	67.4	43.9	41.7	368	NS
<b>Metals-SPLP (mg/L)</b>												
Arsenic	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	0.0207	NS
Lead	0.015	NE	NS	NS	NS	NS	NS	NS	NS	NS	0.0801	0.0092
<b>PCBs (mg/kg)</b>												
Total PCB Aroclors	NE	1	< 0.0206 U	< 0.0227 U	< 0.0216 U	NS	< 0.0226 U	< 0.0212 U	< 0.0222 U	< 0.0218 U	< 0.0255 U	NS
<b>Pesticides (ug/kg)</b>												
Pesticides	NE	NE	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC**

**Blue highlighted results exceed R DEC**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit

R DEC = Residential Direct Exposure Criteria .

GA PMC = Pollutant Mobility Criteria for GA groundwater areas

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

SPLP ETPH results compared to the Groundwater Protection Criteria

**Table 4-1  
Soil Analytical Data  
AOC-3  
1,000-Gallon UST  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-3 V21-SB601 5 - 6 ft V21-SB601 (5-6)-1 4/12/2018 18D0545	AOC-3 V21-SB601 6 - 8 ft V21-SB601 (6-8)-1 4/12/2018 18D0545	AOC-3 V21-SB700 0 - 2 ft V21-SB700 6/26/2018 18F1319
<b>ETPH (mg/kg)</b>					
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	<b>30</b>	<b>31</b>	<b>34</b>
<b>ETPH-SPLP (mg/l)</b>					
Aliphatic Hydrocarbons (ETPH) C9-C36	0.25	NA	NS	NS	NS
<b>VOCs (ug/kg)</b>					
VOCs	20	24000	NS	NS	NS
<b>PAHs (ug/kg)</b>					
Benzo(a)anthracene	1000	1000	NS	NS	NS
Benzo(a)pyrene	1000	1000	NS	NS	NS
Fluoranthene	5600	1000000	NS	NS	NS
Phenanthrene	4000	1000000	NS	NS	NS
Pyrene	4000	1000000	NS	NS	NS
Total PAHs	NE	NE	NS	NS	NS
<b>Metals (mg/kg)</b>					
Antimony	NE	27	NS	NS	NS
Arsenic	NE	10	<b>2.4</b>	< 1.9	<b>14</b>
Barium	NE	4700	NS	NS	NS
Beryllium	NE	2	NS	NS	NS
Cadmium	NE	34	NS	NS	NS
Chromium	NE	NE	NS	NS	NS
Copper	NE	2500	NS	NS	NS
Lead	NE	400	<b>45</b>	<b>23</b>	<b>1600</b>
Mercury	NE	20	NS	NS	NS
Nickel	NE	1400	NS	NS	NS
Vanadium	NE	470	NS	NS	NS
Zinc	NE	20000	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>					
Arsenic	0.05	NE	NS	NS	NS
Lead	0.015	NE	<b>0.015</b>	<b>0.2</b>	<b>0.55</b>
<b>PCBs (mg/kg)</b>					
Total PCB Aroclors	NE	1	NS	NS	NS
<b>Pesticides (ug/kg)</b>					
Pesticides	NE	NE	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC**

**Blue highlighted results exceed R DEC**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit

R DEC = Residential Direct Exposure Criteria .

GA PMC = Pollutant Mobility Criteria for GA groundwater areas

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

SPLP ETPH results compared to the Groundwater Protection Criteria

**Table 4-2  
Soil Analytical Data  
AOC-5  
Boiler Room Wing B  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-5 Q23-SB323 0 - 0.5 ft Q23-SB323 (0-0.5) 041012-1 4/10/2012 SB47196	AOC-5 Q23-SB323 3.5 - 4 ft Q23-SB323 (3.5-4) 041012-1 4/10/2012 SB47196	AOC-5 Q23-SS30 0 - 0.5 ft Q23-SS30-080411 8/4/2011 SB32875	AOC-5 R23-SB309 0 - 2 ft R23-SB309(0-2)-021712-1 2/17/2012 SB44128	AOC-5 R23-SB309 2 - 3 ft R23-SB309(2-3)-021712-1 2/17/2012 SB44128	AOC-5 R23-SB309 8 - 9 ft R23-SB309(8-9)-021712-1 2/17/2012 SB44128	AOC-5 R23-SB712 2 - 3 ft R23-SB712 (2-3) 6/27/2018 18F1381	AOC-5 R23-SB713 2 - 3 ft R23-SB713 (2-3) 6/27/2018 18F1381	AOC-5 R24-SB443 1.5 - 2 ft R24-SB443(1.5-2.5)-070912-1 7/9/2012 SB52647
<b>ETPH (mg/kg)</b>											
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	< 16.9 U	NS	NS	500	< 14.2 U	280	44	59.3
<b>VOCs (ug/kg)</b>											
VOCs	NE	NE	NS	NS	NS	NS	ND	ND	NS	NS	NS
<b>SVOCs (ug/kg)</b>											
Fluoranthene	5600	1000000	NS	< 420 U	NS	NS	< 721 U	< 353 U	NS	NS	235
Pyrene	4000	1000000	NS	< 420 U	NS	NS	< 721 U	< 353 U	NS	NS	200
Total PAHs	NE	NE	NS	< 420	NS	NS	< 721	< 353	NS	NS	435
<b>Metals (mg/kg)</b>											
Arsenic	NE	10	NS	2.94	NS	NS	5.00	NS	NS	NS	< 2.93 U
Barium	NE	4700	NS	162	NS	NS	112 J+	NS	NS	NS	36.8
Beryllium	NE	2	NS	1.17	NS	NS	0.675	NS	NS	NS	< 0.472 U
Cadmium	NE	34	NS	< 0.551 U	NS	NS	0.578	NS	NS	NS	< 0.472 U
Chromium	NE	NE	NS	33.6	NS	NS	29.5	NS	NS	NS	7.48
Copper	NE	2500	NS	12.0	NS	NS	24.1	NS	NS	NS	16.9
Lead	NE	400	NS	30.7 J	NS	NS	36.9	NS	NS	NS	6.42
Mercury	NE	20	NS	0.119 J+	NS	NS	0.0895	NS	NS	NS	< 0.0325 U
Nickel	NE	1400	NS	14.2	NS	NS	17.9	NS	NS	NS	7.45
Vanadium	NE	470	NS	36.6	NS	NS	31.0	NS	NS	NS	26.5
Zinc	NE	20000	NS	56.0	NS	NS	56.2	NS	NS	NS	771 J
<b>Metals-SPLP (mg/L)</b>											
Lead	0.015	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>											
Aroclor 1248	NE	NE	0.0285 J	< 0.0233 U	< 0.0208	NS	< 0.0223 U	NS	NS	NS	< 0.0219 U
Aroclor 1260	NE	NE	0.0359	< 0.0233 U	< 0.0208	NS	< 0.0223 U	NS	NS	NS	< 0.0219 U
Total PCB Aroclors	NE	1	0.0644	< 0.0233 U	< 0.0208	NS	< 0.0223 U	NS	NS	NS	< 0.0219 U
<b>Pesticides (ug/kg)</b>											
Chlordane	66	490	< 25.7 U	NS	NS	< 27.7 U	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria for GA groundwater areas

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

**Table 4-2  
Soil Analytical Data  
AOC-5  
Boiler Room Wing B  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-5 S21-SB308 0 - 2 ft S21-SB308(0-2)-021712-1 2/17/2012 SB44128	AOC-5 S21-SB308 3 - 5 ft S21-SB308(3-5)-021712-1 2/17/2012 SB44128	AOC-5 S21-SB308 8 - 10 ft S21-SB308(8-10)-021712-1 2/17/2012 SB44128	AOC-5 S21-SB609 3 - 5 ft DUP-20180627 6/27/2018 18F1381	AOC-5 S21-SB609 3 - 5 ft S21-SB609 (3-5) 6/27/2018 18F1381	AOC-5 T23-SB305 1 - 3 ft T23-SB305(1-3)-021712-1 2/17/2012 SB44128	AOC-5 T24-SB444 1 - 2 ft T24-SB444(1-2)-070912-1 7/9/2012 SB52647
<b>ETPH (mg/kg)</b>									
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	<b>469</b>	< 14.3 U	<b>160</b>	<b>140</b>	< 15.2 U	< 27.4 U
<b>VOCs (ug/kg)</b>									
VOCs	NE	NE	NS	ND	ND	NS	NS	ND	NS
<b>SVOCs (ug/kg)</b>									
Fluoranthene	5600	1000000	NS	< 722 U	< 354 U	NS	NS	< 376 U	< 349 U
Pyrene	4000	1000000	NS	< 722 U	< 354 U	NS	NS	< 376 U	< 349 U
Total PAHs	NE	NE	NS	< 722	< 354	NS	NS	< 376	< 349
<b>Metals (mg/kg)</b>									
Arsenic	NE	10	NS	<b>7.03</b>	<b>1.50</b>	NS	NS	<b>2.34</b>	< 3.45 U
Barium	NE	4700	NS	<b>134 J+</b>	<b>147 J+</b>	NS	NS	<b>93.5 J+</b>	<b>97.9</b>
Beryllium	NE	2	NS	<b>0.692</b>	<b>0.591</b>	NS	NS	<b>0.604 U</b>	<b>0.652</b>
Cadmium	NE	34	NS	<b>0.638</b>	< 0.471 U	NS	NS	< 0.550 U	< 0.507 U
Chromium	NE	NE	NS	<b>24.4</b>	<b>27.0</b>	NS	NS	<b>24.0</b>	<b>22.5</b>
Copper	NE	2500	NS	<b>29.4</b>	<b>10.2</b>	NS	NS	<b>16.2</b>	<b>15.1</b>
Lead	NE	400	NS	<b>49.8</b>	<b>2.87</b>	NS	<b>77</b>	<b>6.87</b>	<b>8.07</b>
Mercury	NE	20	NS	<b>0.0960</b>	< 0.0294 U	NS	<b>0.15</b>	< 0.0331 U	< 0.0285 U
Nickel	NE	1400	NS	<b>12.4</b>	<b>9.83</b>	NS	NS	<b>13.7</b>	<b>10.2</b>
Vanadium	NE	470	NS	<b>26.8</b>	<b>21.6</b>	NS	NS	<b>23.3</b>	<b>29.7</b>
Zinc	NE	20000	NS	<b>215</b>	<b>25.5</b>	NS	NS	<b>30.5</b>	<b>45.0 J</b>
<b>Metals-SPLP (mg/L)</b>									
Lead	0.015	NE	NS	NS	NS	NS	<b>0.67</b>	NS	NS
Mercury	0.002	NE	NS	NS	NS	NS	<b>0.00067</b>	NS	NS
<b>PCBs (mg/kg)</b>									
Aroclor 1248	NE	NE	NS	NS	< 0.0216 U	NS	NS	< 0.0222 U	< 0.0195 U
Aroclor 1260	NE	NE	NS	NS	< 0.0216 U	NS	NS	< 0.0222 U	< 0.0195 U
Total PCB Aroclors	NE	1	NS	NS	< 0.0216 U	NS	NS	< 0.0222 U	< 0.0195 U
<b>Pesticides (ug/kg)</b>									
Chlordane	66	490	< 22.8 U	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria for GA groundwater areas

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

**Table 4-3  
Soil Analytical Data  
AOC-6  
Transformers  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-6 U21A-SB346 0.5 - 1 ft U21A-SB346(0.5-1)-040912-1 4/9/2012 SB46864	AOC-6 U21A-SB346 3 - 4 ft U21A-SB346(3-4)-040912-1 4/9/2012 SB46864	AOC-6 U21-SB347 2 - 2.5 ft U21-SB347(2-2.5)-040912-1 4/9/2012 SB46864	AOC-6 U21-SB347 4 - 5 ft U21-SB347(4-5)-040912-1 4/9/2012 SB46864	AOC-6 U21-SB701 0 - 2 ft U21-SB701 6/26/2018 18F1319	AOC-6 U21-SB702 0 - 2 ft U21-SB702 6/26/2018 18F1319	AOC-6 U21-SB703 0 - 2 ft U21-SB703 6/26/2018 18F1319	AOC-6 U21-SB704 0 - 2 ft U21-SB704 6/26/2018 18F1319
<b>ETPH (mg/kg)</b>										
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	<b>70.0</b>	NS	< 15.4 U	NS	NS	NS	NS
<b>VOCs (ug/kg)</b>										
VOCs	NE	NE	NS	ND	NS	ND	NS	NS	NS	NS
<b>PAHs (ug/kg)</b>										
Benzo(a)anthracene	1000	1000	NS	<b>398</b>	NS	< 383 U	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NS	<b>421</b>	NS	< 383 U	NS	NS	NS	NS
Fluoranthene	5600	1000000	NS	<b>948</b>	NS	< 383 U	NS	NS	NS	NS
Phenanthrene	4000	1000000	NS	<b>488</b>	NS	< 383 U	NS	NS	NS	NS
Pyrene	4000	1000000	NS	<b>826</b>	NS	< 383 U	NS	NS	NS	NS
Total PAHs	NE	NE	NS	<b>3081</b>	NS	< 383	NS	NS	NS	NS
<b>Metals (mg/kg)</b>										
Arsenic	NE	10	<b>3.09</b>	NS	<b>1.49</b>	NS	NS	NS	NS	NS
Barium	NE	4700	<b>64.4</b>	NS	<b>81.8</b>	NS	NS	NS	NS	NS
Chromium	NE	NE	<b>25.1</b>	NS	<b>22.7</b>	NS	NS	NS	NS	NS
Copper	NE	2500	<b>17.5</b>	NS	<b>22.5</b>	NS	NS	NS	NS	NS
Lead	NE	400	<b>24.0 J</b>	NS	<b>4.94 J</b>	NS	NS	NS	NS	NS
Nickel	NE	1400	<b>11.7</b>	NS	<b>14.4</b>	NS	NS	NS	NS	NS
Vanadium	NE	470	<b>19.1</b>	NS	<b>23.3</b>	NS	NS	NS	NS	NS
Zinc	NE	20000	<b>67.2</b>	NS	<b>34.5</b>	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>										
Aroclor 1248	NE	NE	< 0.0216 U	NS	< 0.0212 U	NS	<b>0.71</b>	<b>0.12</b>	< 0.096	< 0.095
Aroclor 1254	NE	NE	< 0.0216 U	NS	< 0.0212 U	NS	<b>0.36</b>	<b>0.13</b>	< 0.096	<b>0.13</b>
Aroclor 1260	NE	NE	< 0.0216 U	NS	< 0.0212 U	NS	<b>0.18</b>	<b>0.087</b>	< 0.096	<b>0.25</b>
Total PCB Aroclors	NE	1	< 0.0216 U	NS	< 0.0212 U	NS	<b>1.25</b>	<b>0.337</b>	< 0.096	<b>0.38</b>
<b>Pesticides (ug/kg)</b>										
Pesticides	NE	NE	ND	NS	NS	NS	NS	NS	NS	NS

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected at concentrations above laboratory reporting limit**  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed R DEC.**  
<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit  
R DEC = Residential Direct Exposure Criteria .  
GA PMC = Pollutant Mobility Criteria for GA groundwater areas  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram

**Table 4-4  
Soil Analytical Data  
AOC-8  
Pesticide Use  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-8 D31-SB633 0 - 1 ft D31-SB633 (0-1)-1 12/28/2018 18L1306 / 19A0303	AOC-8 D32-SB634 0 - 1 ft E31-SB634 (0-1)-1 12/28/2018 18L1306 / 19A0303	AOC-8 E31-SB624 0 - 1 ft E31-SB264 (0-1) 11/29/2018 18K1266 / 18L0654	AOC-8 F30-SB623 0 - 1 ft F30-SB623 (0-1) 11/29/2018 18K1266 / 18L0654	AOC-8 F31-SB627 0 - 1 ft F31-SB627 (0-1) 11/29/2018 18K1267	AOC-8 G27-SB612 0 - 1 ft G27-SB612 (0-1) 7/3/2018 18G0089	AOC-8 G28-SB611 0 - 1 ft G28-SB611 (0-1) 7/3/2018 18G0089	AOC-8 G29-SB606 0 - 1 ft G29-SB606 (0-1) 7/3/2018 18G0089	AOC-8 G29-SB626 1-2 ft G29-SB626 (1-2) 11/29/2018 18K1266 / 18L0654	AOC-8 G29-SB610 0 - 1 ft G29-SB610 (0-1) 7/3/2018 18G0089	AOC-8 G30-SB625 0 - 1 ft G30-SB625 (0-1) 11/29/2018 18K1266	AOC-8 H26-SB613 0 - 1 ft H26-SB613 (0-1) 7/3/2018 18G0089	AOC-8 H27-SB603 1 - 2 ft H27-SB603 (1-2)-1 4/13/2018 18D0644	AOC-8 H27-SB604 1 - 2 ft H27-SB604 (1-2) 7/3/2018 18G0089	AOC-8 H28-SB605 0 - 1 ft H28-SB605 (0-1) 7/3/2018 18G0089	
<b>ETPH (mg/kg)</b>																		
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>																		
Antimony	NE	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	NE	10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	NE	4700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	NE	2500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	NE	400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	NE	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	NE	1400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	NE	340	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	NE	340	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NE	5.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NE	470	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	NE	20000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>																		
Lead	0.015	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/kg)</b>																		
4,4-DDD (p,p)	NE	NE	< 67	< 5.6	< 6.4	< 6.0	< 4.7	< 9.5	< 26	< 4.8	< 5.4	< 100	< 4.8	< 27	<b>5.3</b>	< 4.4	< 4.4	< 4.4
4,4-DDE (p,p)	NE	NE	<b>2.8</b>	<b>20</b>	<b>7.4</b>	<b>150</b>	< 4.7	<b>30</b>	<b>55</b>	<b>28</b>	<b>19</b>	<b>100</b>	< 4.8	<b>29</b>	<b>11</b>	< 4.4	< 4.4	< 4.4
4,4-DDT (p,p)	NE	NE	<b>14</b>	<b>22</b>	<b>8.6</b>	<b>190</b>	< 4.7	<b>22</b>	<b>37</b>	<b>27</b>	<b>13</b>	< 100	< 4.8	<b>35</b>	<b>5</b>	< 4.4	< 4.4	< 4.4
alpha-Chlordane	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	66	490	< 330	< 28	<b>4000</b>	<b>7800</b>	< 23	<b>960</b>	<b>2500</b>	<b>100</b>	<b>110</b>	<b>7400</b>	<b>36</b>	<b>1800</b>	<b>26</b>	< 22	<b>96</b>	NS
gamma-Chlordane	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Heptachlor	13	140	< 84	< 7	NS	NS	NS	< 12	< 32	< 6.1	NS	< 120	NS	< 33	< 6	< 5.5	< 5.5	< 5.5
Heptachlor epoxide	20	67	< 84	< 7	<b>210</b>	<b>560</b>	< 5.8	<b>86</b>	<b>210</b>	< 6.1	10	<b>640</b>	< 7.2	<b>140</b>	< 6	< 5.5	< 5.5	< 5.5
Total DDx	3	1800	<b>16.8</b>	<b>42</b>	<b>16</b>	<b>340</b>	< 4.7	<b>52</b>	<b>92</b>	<b>55</b>	<b>32</b>	<b>100</b>	< 4.8	<b>64</b>	<b>21.3</b>	< 4.4	< 4.4	< 4.4
<b>Pesticides-SPLP (ug/L)</b>																		
4,4-DDT (p,p)	NE	NE	<b>0.99</b>	< 0.04	< 0.04	<b>0.058</b>	NS	< 0.040	NS	< 0.040	< 0.04	< 0.20	NS	< 0.040	< 0.040	NS	< 0.040	< 0.040
Chlordane	0.3	NE	< 2.0	< 0.20	<b>1.7</b>	<b>3.1</b>	NS	<b>0.78</b>	NS	< 0.20	< 0.2	<b>5.7</b>	NS	<b>0.54</b>	< 0.20	NS	< 0.20	< 0.20
Heptachlor epoxide	0.2	NE	< 0.50	< 0.05	<b>0.16</b>	<b>0.43</b>	NS	<b>0.25</b>	NS	< 0.050	< 0.05	<b>1.3</b>	NS	<b>0.19</b>	< 0.050	NS	< 0.050	< 0.050
Total DDx	0.1	NE	<b>0.99</b>	< 0.04	< 0.04	<b>0.058</b>	NS	< 0.040	NS	< 0.040	< 0.04	< 0.20	NS	< 0.040	< 0.040	NS	< 0.040	< 0.040

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected above the specified laboratory reporting limit.

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

SPLP pesticides were compared to the GWPC

**Table 4-4  
Soil Analytical Data  
AOC-8  
Pesticide Use  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-8 H29-SB609 0 - 1 ft H29-SB609 (0-1) 7/3/2018 18G0089	AOC-8 I26-SB607 0 - 1 ft I26-SB607 (0-1) 7/3/2018 18G0089	AOC-13 I26-SB247 0.5 - 2.5 ft I26-SB247(0.5-2.5)-1 12/29/2011 SB41766	AOC-8 I27-SB608 0 - 1 ft I27-SB608 (0-1) 7/3/2018 18G0089	AOC-5 SS-247 0 - 0.25 ft SS-247 0-3-081511 8/15/2011 SB33506	AOC-8 SS-278 0 - 0.25 ft SS-278 (0-3) 8/22/2011 SB33952	AOC-8 SS-279 0 - 0.25 ft SS-278 (0-3) 8/22/2011 SB33952
<b>ETPH (mg/kg)</b>									
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	NS	25.7	NS	NS	NS	NS
<b>Metals (mg/kg)</b>									
Antimony	NE	27	NS	NS		NS			
Arsenic	NE	10	NS	NS	15.6	NS	6.45	5.34	7.6
Barium	NE	4700	NS	NS	119 J	NS	NS	NS	NS
Beryllium	NE	2	NS	NS	1.07	NS	NS	NS	NS
Cadmium	NE	34	NS	NS	< 0.560 U	NS	< 0.605 U	NS	NS
Chromium	NE	NE	NS	NS	30.3 J	NS	34.3	NS	NS
Copper	NE	2500	NS	NS	< 29.1 UJ	NS	NS	NS	NS
Lead	NE	400	NS	NS	69.6	NS	62.6	NS	NS
Mercury	NE	20	NS	NS	0.250 J	NS	0.0833	NS	NS
Nickel	NE	1400	NS	NS	16.0 J	NS	NS	NS	NS
Selenium	NE	340	NS	NS	< 1.68 U	NS	NS	NS	NS
Silver	NE	340	NS	NS	< 1.68 U	NS	NS	NS	NS
Thallium	NE	5.4	NS	NS	< 3.36 U	NS	NS	NS	NS
Vanadium	NE	470	NS	NS	37.8	NS	NS	NS	NS
Zinc	NE	20000	NS	NS	< 106 UJ	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>									
Lead	0.015	NE	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	NE	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/kg)</b>									
4,4-DDD (p,p)	NE	NE	< 8.7	< 24	< 9.74 U	< 4.6	< 8.60 U	< 9.79 U	<12.5 U
4,4-DDE (p,p)	NE	NE	9.1	< 24	< 6.09 U	< 4.6	< 5.38 U	< 6.12 U	20.7
4,4-DDT (p,p)	NE	NE	9.9	< 24	< 9.74 U	11	< 8.60 U	< 9.79 U	22.8
alpha-Chlordane	NE	NE	NS	NS	38.5 J	NS	< 5.38 UJ	< 6.12 U	451
Chlordane	66	490	680	1700	430	290	26.7	< 24.5 U	1940
gamma-Chlordane	NE	NE	NS	NS	43.6	NS	< 5.38 U	< 6.12 U	310
Heptachlor	13	140	< 11	< 30	43.6	< 5.8		< 6.12 U	< 7.80 U
Heptachlor epoxide	20	67	20	73	< 6.09 U	21	< 5.38 U	< 6.12 U	< 7.80 U
Total DDx	3	1800	19	< 24	< 9.74	11	< 8.60 U	< 9.79	43.5
<b>Pesticides-SPLP (ug/L)</b>									
4,4-DDT (p,p)	NE	NE	NS	< 0.040	NS	< 0.040	NS	NS	NS
Chlordane	0.3	NE	NS	1	NS	0.34	NS	NS	NS
Heptachlor epoxide	0.2	NE	NS	0.14	NS	< 0.050	NS	NS	NS
Total DDx	0.1	NE	NS	< 0.040	NS	< 0.040	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected above the specified laboratory reporting limit.

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

SPLP pesticides were compared to the GWPC

Table 4-5  
Soil Analytical Data  
AOC-9  
Former Residences  
Greenwich High School

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-16B AT27-SB612 0 - 0.5 ft AT27-SB612 (0-0.5)-1 4/12/2018 18D0644	AOC-9 AT29-SB297 3 - 5 ft AT29-SB297(3-5)-1 2/15/2012 SB43969	AOC-9 AV27-SS174 0 - 0.25 ft AV27-SS174 0-3 8/11/2011 SB33302	AOC-16B AV28-SB232 0 - 2 ft AV28-SB232(0-2)-1 12/27/2011 SB41683	AOC-16B AV28-SB232 5 - 6 ft AV28-SB232(5-6)-1 12/27/2011 SB41683	AOC-16B AV28-SB613 0 - 0.5 ft AV28-SB613 (0-0.5)-1 4/12/2018 18D0644	AOC-16B AV28-SS136 0 - 0.25 ft AV28 SS136 0-3 8/11/2011 SB33302	AOC-16B AV28-SS172 0 - 0.25 ft AV28 SS172 0-3 8/11/2011 SB33302	AOC-16B AV30-SS233 0 - 0.25 ft AV30-SS233 0-3 8/11/2011 SB33374	AOC-16B AX31-SB278 0 - 1 ft AX31-SB278 (0-1) 12/30/2011 SB41831	AOC-16B AX31-SB278 1 - 2 ft AX31-SB278 (1-2) 12/30/2011 SB41831	AOC-9 AY31-SS276 0 - 0.25 ft AY31-SS276 (0-3) 8/22/2011 SB33952	AOC-9 AZ31-SS231 0 - 0.25 ft AZ31-SS231 0-3 8/11/2011 SB33374	AOC-9 BA31-SS280 0 - 0.25 ft BA31-SS280 (0-3) 8/22/2011 SB33952	AOC-9 C13-SS02 0 - 0.5 ft C13-SS2-080511 8/5/2011 SB32945	AOC-9 C14-SS253 0 - 0.25 ft C14SS-253 0-3 8/15/2011 SB33547	AOC-9 C15-SB293 5 - 6 ft C15-SB293(5-6)-021512-1 2/15/2012 SB43969	AOC-9 C15-SS03 0 - 0.5 ft C15-SS3-080511 8/5/2011 SB32945	AOC-9 D19-SB292 1.5 - 2 ft D19-SB292(1.5-2)-021512-1 2/15/2012 SB43969	
<b>ETPH (mg/kg)</b>																						
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	< 14.9 U	NS	221	NS	NS	NS	NS	NS	NS	< 13.8 U	NS	NS	NS	107	NS	< 14.4 U	NS	NS	
<b>SVOCs (ug/kg)</b>																						
Fluoranthene	5600	1000000	NS	< 369 U	NS	1030	NS	NS	NS	NS	NS	NS	< 342 U	NS	NS	NS	NS	< 407 U	NS	< 357 U	NS	< 3350 U
Pyrene	4000	1000000	NS	< 369 U	NS	1120	NS	NS	NS	NS	NS	NS	< 342 U	NS	NS	NS	NS	< 407 U	NS	< 357 U	NS	< 3350 U
<b>Metals (mg/kg)</b>																						
Arsenic	NE	10	NS	2.36	NS	5.88	4.49	NS	NS	6.11	3.09	NS	< 1.52 U	6.11	9.3	2.83	16.2	9.04	4.23	7.16	4.37	
Barium	NE	4700	NS	101	NS	148	315	NS	NS	NS	NS	NS	803	NS	NS	NS	NS	NS	754	NS	82	
Beryllium	NE	2	NS	0.75	NS	0.707	0.976	NS	NS	NS	NS	NS	1.33	NS	NS	NS	NS	NS	1.38	NS	< 0.454 U	
Cadmium	NE	34	NS	< 0.529 UJ	NS	1.11	1.22	NS	NS	0.860	< 0.547 U	NS	< 0.506 U	NS	< 0.505 U	NS	< 0.549 U	NS	< 0.514 UJ	NS	< 0.454 UJ	
Chromium	NE	NE	NS	15.7	NS	31.4	56.5	NS	NS	26.2	52.8	NS	84.3	NS	31.8	NS	27.3	NS	86.6	NS	11.9	
Copper	NE	2500	NS	16.7 J	NS	24.3	20.3	NS	NS	NS	NS	NS	15.7	NS	NS	NS	NS	NS	22.4 J	NS	14.3 J	
Lead	NE	400	NS	5.1	NS	53.9	28.9	NS	NS	55.7	36.8	NS	4.08	NS	49.3	NS	225	NS	6.59	NS	110	
Mercury	NE	20	NS	< 0.0293 UJ	NS	0.0692	0.0676	NS	NS	0.263	0.0486	NS	< 0.0314 U	NS	0.0754	NS	0.174	NS	< 0.0288 UJ	NS	0.126 J	
Nickel	NE	1400	NS	9.70 J	NS	13.6	18.6	NS	NS	NS	NS	NS	23.7	NS	NS	NS	NS	NS	27.2 J	NS	8.66 J	
Thallium	NE	5.4	NS	< 3.17 U	NS	< 3.07 U	< 3.10 U	NS	NS	NS	NS	NS	< 3.04 U	NS	NS	NS	NS	NS	< 3.08 U	NS	< 2.72 U	
Vanadium	NE	470	NS	21.1	NS	33.9	42.7	NS	NS	NS	NS	NS	66.8	NS	NS	NS	NS	NS	66.8	NS	26.9	
Zinc	NE	20000	NS	21.0 J	NS	98.8	91.2	NS	NS	NS	NS	NS	51.5	NS	NS	NS	NS	NS	48.1 J	NS	69.6 J	
<b>Metals-SPLP (mg/L)</b>																						
Arsenic	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Lead	0.015	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mercury	0.002	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>PCBs (mg/kg)</b>																						
Aroclor 1242	NE	NE	NS	< 0.0222 U	< 0.0224 U	< 0.0219 U	< 0.0222 U	NS	< 0.0206 U	< 0.0225 U	< 0.0231 U	NS	< 0.0202 U	< 0.0223 U	< 0.0232 U	NS	< 0.0236 U	< 0.0230 U	NS	< 0.0213 U	0.266	
Aroclor 1248	NE	NE	NS	< 0.0222 U	< 0.0224 U	< 0.0219 U	0.115	NS	< 0.0206 U	0.208	< 0.0231 U	NS	< 0.0202 U	0.564	< 0.0232 U	NS	< 0.0236 U	< 0.0230 U	NS	< 0.0213 U	< 0.0193 U	
Aroclor 1260	NE	NE	NS	< 0.0222 U	< 0.0224 U	< 0.0219 U	< 0.0222 U	NS	< 0.0206 U	< 0.0225 U	< 0.0231 U	NS	< 0.0202 U	< 0.0223 U	< 0.0232 U	NS	< 0.0236 U	0.0517	NS	< 0.0213 U	< 0.0193 U	
Total PCB Aroclors	NE	1	NS	< 0.0222 U	< 0.0224 U	< 0.0219 U	0.115	NS	< 0.0206 U	0.208	< 0.0231 U	NS	< 0.0202 U	0.564	< 0.0232 U	NS	< 0.0236 U	0.0517	NS	< 0.0213 U	0.266	
<b>Pesticides (ug/kg)</b>																						
4,4-DDD (p,p)	NE	NE	NS	NS	< 8.87 U	NS	NS	NS	< 8.60 U	NS	< 7.22 U	< 8.87 U	NS	NS	< 8.59 U	NS	< 8.37 U	NS	NS	NS	NS	
4,4-DDE (p,p)	NE	NE	NS	NS	< 5.54 U	NS	NS	NS	< 5.38 U	NS	8.62	< 5.54 U	NS	NS	7.19	NS	< 5.23 U	NS	NS	NS	NS	
4,4-DDT (p,p)	NE	NE	NS	NS	9.41 J	NS	NS	NS	15.4	NS	11.8	< 8.87 U	NS	NS	16.3	NS	< 8.37 U	NS	NS	NS	NS	
alpha-Chlordane	NE	NE	NS	NS	12.2	NS	NS	NS	21.1	NS	< 4.51 U	< 5.54 U	NS	NS	< 5.37 U	NS	< 5.23 U	NS	NS	NS	NS	
Chlordane	66	490	NS	NS	75.6	NS	NS	NS	81.1	NS	< 18.1 U	< 22.2 U	NS	NS	< 21.5 U	NS	< 20.9 U	NS	NS	NS	NS	
gamma-Chlordane	NE	NE	NS	NS	9.99	NS	NS	NS	14.1	NS	< 4.51 U	< 5.54 U	NS	NS	< 5.37 U	NS	< 5.23 U	NS	NS	NS	NS	
Total DDx	3	1800	NS	NS	9.41 J	NS	NS	NS	15.4	NS	20.42	< 8.87	NS	NS	23.49	NS	< 8.37 U	NS	NS	NS	NS	
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	ND	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected above the specified laboratory reporting limit.

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas

I/C DEC = Industrial/Commercial Direct Exposure Criteria

The I/C DEC for PCBs applies to inaccessible soil.

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

Table 4-5  
Soil Analytical Data  
AOC-9  
Former Residences  
Greenwich High School

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-9 D19-SB292 2 - 4 ft D19-SB292(2-4)-021512-1 2/15/2012 SB43969	AOC-9 D19-SB607 0 - 1 ft D19-SB607 (0-1)-1 4/12/2018 18D0545	AOC-9 E16-SS08 0 - 0.5 ft E16-SS08 8/5/2011 SB32945	AOC-9 E18-SS09 0 - 0.5 ft E18-SS09 8/5/2011 SB32945	AOC-9 H29-SB318 1.5 - 2 ft H29-SB318(1.5-2)-1 4/10/2012 SB46977	AOC-9 H29-SB318 4 - 4.5 ft H29-SB318(4-4.5)-1 4/10/2012 SB46977	AOC-9 M24-SB294 2 - 4 ft M24-SB294(2-4)-021512-1 2/15/2012 SB43969	AOC-9 M25-SB322 1.5 - 2 ft M25-SB322(1.5-2)-041012-1 4/10/2012 SB46977	AOC-9 Q23-SB323 0 - 0.5 ft Q23-SB323 (0-0.5) 041012-1 4/10/2012 SB47196	AOC-9 Q23-SB323 3.5 - 4 ft Q23-SB323 (3.5-4) 041012-1 4/10/2012 SB47196	AOC-9 Q23-SB608 2 - 4 ft Q23-SB608 (2-4)-1 4/12/2018 18D0545	AOC-9 R23-SB309 0 - 2 ft R23-SB309(0-2)-021712-1 2/17/2012 SB44128	AOC-9 R23-SB309 2 - 3 ft R23-SB309(2-3)-021712-1 2/17/2012 SB44128	AOC-9 R23-SB309 8 - 9 ft R23-SB309(8-9)-021712-1 2/17/2012 SB44128	AOC-9 S21-SB308 0 - 2 ft S21-SB308(0-2)-021712-1 2/17/2012 SB44128	AOC-9 S21-SB308 3 - 5 ft S21-SB308(3-5)-021712-1 2/17/2012 SB44128	AOC-9 S21-SB308 8 - 10 ft S21-SB308(8-10)-021712-1 2/17/2012 SB44128	
ETPH (mg/kg)																				
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	< 15.5 UJ	NS	135	138	NS	96.9	< 14.7 U	99.1	NS	< 16.9 U	NS	NS	500	< 14.2 U	NS	469	< 14.3 U	
SVOCs (ug/kg)																				
Fluoranthene	5600	1000000	< 384 U	NS	< 372 U	< 386 U	NS	NS	< 364 U	NS	NS	< 420 U	NS	NS	< 721 U	< 353 U	NS	< 722 U	< 354 U	< 354 U
Pyrene	4000	1000000	< 384 U	NS	< 372 U	< 386 U	NS	NS	< 364 U	NS	NS	< 420 U	NS	NS	< 721 U	< 353 U	NS	< 722 U	< 354 U	< 354 U
Metals (mg/kg)																				
Arsenic	NE	10	2.8	NS	16.9	5.12	4.29	NS	3.9	3.96	NS	2.94	NS	NS	5	NS	NS	7.03	1.5	
Barium	NE	4700	70.8	NS	NS	NS	96.2	NS	453	180	NS	162	NS	NS	112 J+	NS	NS	134 J+	147 J+	
Beryllium	NE	2	0.884	NS	NS	NS	< 0.490 U	NS	1.85	0.679	NS	1.17	NS	NS	0.675	NS	NS	0.692	0.591	
Cadmium	NE	34	< 0.554 UJ	NS	< 0.542 U	< 0.533 U	< 0.490 U	NS	< 0.532 UJ	< 0.524 U	NS	< 0.551 U	NS	NS	0.578	NS	NS	0.638	< 0.471 U	
Chromium	NE	NE	17.8	NS	31.5	25.3	23.7	NS	113	35.7	NS	33.6	NS	NS	29.5	NS	NS	24.4	27	
Copper	NE	2500	5.57 J	NS	NS	NS	11.7	NS	19.6 J	16.5	NS	12	NS	NS	24.1	NS	NS	29.4	10.2	
Lead	NE	400	7.93	29	244	260	30.6	NS	14	15.1	NS	30.7 J	14	NS	36.9	NS	NS	49.8	2.87	
Mercury	NE	20	0.0351 J	0.048	0.111	0.128	0.101 J+	NS	0.044	< 0.0313 U	NS	0.119 J+	0.044	NS	0.0895	NS	NS	0.096	< 0.0294 U	
Nickel	NE	1400	9.29 J	NS	NS	NS	11.8	NS	29.1 J	12.7	NS	14.2	NS	NS	17.9	NS	NS	12.4	9.83	
Thallium	NE	5.4	< 3.33 U	NS	NS	NS	< 2.94 U	NS	< 3.19 U	< 3.14 U	NS	< 3.31 U	NS	NS	< 2.99 U	NS	NS	< 3.30 U	< 2.83 U	
Vanadium	NE	470	22.4	NS	NS	NS	23.7	NS	83.2	31.6	NS	36.6	NS	NS	31	NS	NS	26.8	21.6	
Zinc	NE	20000	26.1 J	NS	NS	NS	48.7	NS	87.6 J	52.6	NS	56	NS	NS	56.2	NS	NS	215	25.5	
Metals-SPLP (mg/L)																				
Arsenic	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NS	0.06	NS	NS	NS	NS	NS	NS	NS	NS	0.11	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	NE	NS	0.00019	NS	NS	NS	NS	NS	NS	NS	NS	0.00038	NS	NS	NS	NS	NS	NS	NS
PCBs (mg/kg)																				
Aroclor 1242	NE	NE	NS	NS	< 0.0217 U	< 0.0238 U	NS	NS	< 0.0220 U	< 0.211 U	< 0.0248 U	< 0.0233 U	NS	NS	< 0.0223 U	NS	NS	NS	< 0.0216 U	
Aroclor 1248	NE	NE	NS	NS	< 0.0217 U	< 0.0238 U	NS	NS	< 0.0220 U	< 0.211 U	0.0285 J	< 0.0233 U	NS	NS	< 0.0223 U	NS	NS	< 0.0223 U	< 0.0216 U	
Aroclor 1260	NE	NE	NS	NS	< 0.0217 U	< 0.0238 U	NS	NS	< 0.0220 U	< 0.211 U	0.0359	< 0.0233 U	NS	NS	< 0.0223 U	NS	NS	NS	< 0.0216 U	
Total PCB Aroclors	NE	1	NS	NS	< 0.0217 U	< 0.0238 U	NS	NS	< 0.0220 U	< 0.211 U	0.0644	< 0.0233 U	NS	NS	< 0.0223 U	NS	NS	NS	< 0.0216 U	
Pesticides (ug/kg)																				
4,4-DDD (p,p)	NE	NE	NS	NS	< 8.10 U	< 9.30 U	NS	NS	NS	NS	< 10.3 U	NS	NS	< 11.1 U	NS	NS	NS	< 9.09 U	NS	NS
4,4-DDE (p,p)	NE	NE	NS	NS	< 5.06 U	< 5.81 U	NS	NS	NS	NS	< 6.41 U	NS	NS	< 6.94 U	NS	NS	NS	< 5.69 U	NS	NS
4,4-DDT (p,p)	NE	NE	NS	NS	< 8.10 U	< 9.30 U	NS	NS	NS	NS	< 10.3 U	NS	NS	< 11.1 U	NS	NS	NS	< 9.09 U	NS	NS
alpha-Chlordane	NE	NE	NS	NS	< 5.06 U	< 5.81 U	NS	NS	NS	NS	< 6.41 U	NS	NS	< 6.94 U	NS	NS	NS	< 5.69 U	NS	NS
Chlordane	66	490	NS	NS	< 20.2 U	< 23.2 U	NS	NS	NS	NS	< 25.7 U	NS	NS	< 27.7 U	NS	NS	NS	< 22.8 U	NS	NS
gamma-Chlordane	NE	NE	NS	NS	< 5.06 U	< 5.81 U	NS	NS	NS	NS	< 6.41 U	NS	NS	< 6.94 U	NS	NS	NS	< 5.69 U	NS	NS
Total DDx	3	1800	NS	NS	< 8.10 U	< 9.30 U	NS	NS	NS	NS	< 6.41 U	NS	NS	< 6.94 U	NS	NS	NS	< 9.09 U	NS	NS
Pesticides-SPLP (ug/l)	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

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<0.01 = Analyte not detected above the specified laboratory reporting limit.

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas

I/C DEC = Industrial/Commercial Direct Exposure Criteria

The I/C DEC for PCBs applies to inaccessible soil.

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

Table 4-5  
Soil Analytical Data  
AOC-9  
Former Residences  
Greenwich High School

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-9 S21-SB609 3 - 5 ft S21-SB609 (3-5) 6/27/2018 18F1381	AOC-9 S33-SB295 0 - 1 ft S33-SB295(0-1)-021512-1 2/15/2012 SB43969	AOC-9 S33-SB295 2 - 4 ft S33-SB295(2-4)-021512-1 2/15/2012 SB43969	AOC-9 T21-SB402 1 - 2 ft T21-SB402 (1-2)-062712-1 6/27/2012 SB51902	AOC-9 T21-SB402 6.5 - 7.5 ft T21-SB402 (6.5-7.5)-062712-1 6/27/2012 SB51902	AOC-9 T22-SB158 1 - 2 ft T22-SB158 1-2 8/10/2011 SB33209	AOC-9 T22-SB158 2 - 3 ft T22-SB158 2-3 8/10/2011 SB33209	AOC-9 T22-SB158 3 - 4 ft T22-SB158 3-4 8/10/2011 SB33209	AOC-9 T22-SB158 5 - 6 ft T22-SB158 5-6 8/10/2011 SB33209	AOC-9 T22-SB158 6 - 7 ft T22-SB158 6-7 8/10/2011 SB33209	AOC-9 T23-SB24 1 - 2 ft T23-SB24 1-2 8/10/2011 SB33209	AOC-9 T23-SB24 2 - 3 ft T23-SB24 2-3 8/10/2011 SB33209	AOC-9 T23-SB24 5 - 6 ft T23-SB24 5-6 8/10/2011 SB33209	AOC-9 T23-SB305 1 - 3 ft T23-SB305(1-3)-021712-1 2/17/2012 SB44128	AOC-9 U23-SS50 0 - 0.5 ft U23-SS50-080411 8/4/2011 SB32875	AOC-3 V21-SB345 5 - 6 ft V21-SB345(5-6)-040912-1 4/9/2012 SB46664	AOC-3 V21-SB600 5 - 6 ft V21-SB600 (5-6)-1 4/12/2018 18D0545	AOC-3 V21-SB601 5 - 6 ft V21-SB601 (5-6)-1 4/12/2018 18D0545	AOC-3 V21-SB601 6 - 8 ft V21-SB601 (6-8)-1 4/12/2018 18D0545	AOC-3 V21-SB700 0 - 2 ft V21-SB700 6/26/2018 18F1319	AOC-9 V22-SB38 1 - 1.5 ft V22-SB38 1-1.5 8/10/2011 SB33209	
ETPH (mg/kg)																								
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	150	NS	< 14.3 U	NS	< 30.6 U	NS	99.9	62.4	NS	NS	NS	67.3	NS	< 15.2 U	NS	600	41	30	31	34	46.7	
SVOCS (ug/kg)																								
Fluoranthene	5600	1000000	NS	NS	< 355 U	NS	< 193 U	NS	< 393 U	< 380 U	NS	NS	NS	< 784 U	NS	< 376 U	NS	4440	NS	NS	NS	NS	NS	
Pyrene	4000	1000000	NS	NS	< 355 U	NS	< 193 U	NS	< 393 U	< 380 U	NS	NS	NS	< 784 U	NS	< 376 U	NS	3850	NS	NS	NS	NS	NS	
Metals (mg/kg)																								
Arsenic	NE	10	NS	NS	2.18	7.18 J+	4.42 J+	3.99	26.9	41.8	11.7	< 1.47 U	NS	3.69	NS	2.34	NS	102	< 1.8	2.4	< 1.9	14	3.51	
Barium	NE	4700	NS	NS	923	107	110	NS	NS	NS	NS	NS	NS	NS	NS	93.5 J+	NS	333	NS	NS	NS	NS	NS	
Beryllium	NE	2	NS	NS	1.71	0.592	0.91	NS	NS	< 0.576 U	NS	NS	NS	NS	NS	0.604 U	NS	0.716	NS	NS	NS	NS	NS	
Cadmium	NE	34	NS	NS	< 0.509 UJ	0.495	< 0.505 U	0.681	0.727	< 0.570 U	< 0.512 U	NS	NS	< 0.564 U	NS	< 0.550 U	NS	1.04	NS	NS	NS	NS	0.556	
Chromium	NE	NE	NS	NS	105	31.2	37.2	26.2	31.7	8.75	13	NS	NS	13.8	NS	24	NS	34.8	NS	NS	NS	NS	24.4	
Copper	NE	2500	NS	NS	25.8 J	19.6	10.7	NS	NS	20.6	NS	NS	NS	NS	NS	16.2	NS	56.4	NS	NS	NS	NS	NS	
Lead	NE	400	77	NS	7.06	38.8	14.8	19.1	119	56.2	11.2	NS	NS	18.9	NS	6.87	NS	1400 J	15	45	23	1600	27.7	
Mercury	NE	20	0.15	NS	< 0.0318 UJ	0.1	0.0724	0.0631 J+	1.63	2.18	0.377 J+	NS	NS	< 0.0349 U	NS	< 0.0331 U	NS	0.314	NS	NS	NS	NS	0.056	
Nickel	NE	1400	NS	NS	26.4 J	19.1	14.5	NS	NS	6.35	NS	NS	NS	NS	NS	13.7	NS	15.4	NS	NS	NS	NS	NS	
Thallium	NE	5.4	NS	NS	3.68	< 2.96 U	< 3.03 U	NS	NS	< 3.45 U	NS	NS	NS	NS	NS	< 3.30 U	NS	< 3.45 U	NS	NS	NS	NS	NS	
Vanadium	NE	470	NS	NS	80.9	32.6	34	NS	NS	NS	NS	NS	NS	NS	NS	23.3	NS	32.7	NS	NS	NS	NS	NS	
Zinc	NE	20000	NS	NS	75.2 J	64.5	37.1	NS	NS	53.2	NS	NS	NS	NS	NS	30.5	NS	366	NS	NS	NS	NS	NS	
Metals-SPLP (mg/L)																								
Arsenic	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0207	NS	NS	NS	NS	NS	
Lead	0.015	NE	0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0801	0.0092	0.015	0.2	0.55	NS	
Mercury	0.002	NE	0.00067	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
PCBs (mg/kg)																								
Aroclor 1242	NE	NE	NS	NS	0.036	< 0.0206 U	< 0.0227 U	< 0.0222 U	< 0.0244 U	NS	< 0.0211 U	NS	< 0.0239 U	NS	< 0.0219 U	< 0.0222 U	< 0.0209 U	< 0.0255 U	NS	NS	NS	NS	< 0.0220 U	
Aroclor 1248	NE	NE	NS	NS	< 0.0206 U	< 0.0206 U	< 0.0227 U	< 0.0222 U	< 0.0244 U	NS	< 0.0211 U	NS	< 0.0239 U	NS	< 0.0219 U	< 0.0222 U	< 0.0209 U	< 0.0255 U	NS	NS	NS	NS	< 0.0220 U	
Aroclor 1260	NE	NE	NS	NS	< 0.0206 U	< 0.0206 U	< 0.0227 U	< 0.0222 U	< 0.0244 U	NS	< 0.0211 U	NS	< 0.0239 U	NS	< 0.0219 U	< 0.0222 U	< 0.0209 U	< 0.0255 U	NS	NS	NS	NS	< 0.0220 U	
Total PCB Aroclors	NE	1	NS	NS	0.036	< 0.0206 U	< 0.0227 U	< 0.0222 U	< 0.0244 U	NS	< 0.0211 U	NS	< 0.0239 U	NS	< 0.0219 U	< 0.0222 U	< 0.0209 U	< 0.0255 U	NS	NS	NS	NS	< 0.0220 U	
Pesticides (ug/kg)																								
4,4-DDD (p,p)	NE	NE	NS	< 8.34 U	NS	NS	NS	NS	< 9.73 U	15.6	NS	NS	NS	< 9.42 U	NS	NS	NS	NS	NS	NS	NS	NS	< 8.75 U	
4,4-DDE (p,p)	NE	NE	NS	< 5.21 U	NS	NS	NS	NS	< 6.08 U	10.4	NS	NS	NS	< 5.89 U	NS	NS	NS	NS	NS	NS	NS	NS	< 5.47 U	
4,4-DDT (p,p)	NE	NE	NS	< 8.34 U	NS	NS	NS	NS	< 9.73 U	< 8.93 U	NS	NS	NS	< 9.42 U	NS	NS	NS	NS	NS	NS	NS	NS	< 8.75 U	
alpha-Chlordane	NE	NE	NS	9.55 J	NS	NS	NS	NS	6.4	< 5.58 U	NS	NS	NS	15.2 J	NS	NS	NS	NS	NS	NS	NS	NS	< 5.47 U	
Chlordane	66	490	NS	38	NS	NS	NS	NS	30.3	< 22.3 U	NS	NS	NS	58.2	NS	NS	NS	NS	NS	NS	NS	NS	< 21.9 U	
gamma-Chlordane	NE	NE	NS	8.45	NS	NS	NS	NS	< 6.08 U	< 5.58 U	NS	NS	NS	15	NS	NS	NS	NS	NS	NS	NS	NS	< 5.47 U	
Total DDX	3	1800	NS	< 8.34	NS	NS	NS	NS	< 9.73	26	NS	NS	NS	< 9.42	NS	NS	NS	NS	NS	NS	NS	NS	< 8.75	
Pesticides-SPLP (ug/l)	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:

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**Bold = Analyte detected at concentrations above laboratory reporting limit**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

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The I/C DEC for PCBs applies to inaccessible soil.

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDX = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

Table 4-5  
Soil Analytical Data  
AOC-9  
Former Residences  
Greenwich High School

AOA Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-9 Z29-SB296 3 - 4 ft Z29-SB296(3-4)-021512-1 2/15/2012 SB43969	AOC-9 Z29-SB296 6 - 7 ft Z29-SB296(6-7)-021512-1 2/15/2012 SB43969	AOC-9 Z29-SB296 8 - 9 ft Z29-SB296(8-9)-021512-1 2/15/2012 SB43969
<b>ETPH (mg/kg)</b>					
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	74.1	< 14.7 U	< 15.2 U
<b>SVOCs (ug/kg)</b>					
Fluoranthene	5600	1000000	< 390 U	< 366 U	< 377 U
Pyrene	4000	1000000	< 390 U	< 366 U	< 377 U
<b>Metals (mg/kg)</b>					
Arsenic	NE	10	< 7.52 U	2.25	NS
Barium	NE	4700	152	69	NS
Beryllium	NE	2	0.654	0.679	NS
Cadmium	NE	34	< 0.502 UJ	< 0.477 UJ	NS
Chromium	NE	NE	43.6	18.4	NS
Copper	NE	2500	26.3 J	10.2 J	NS
Lead	NE	400	114	4.52	NS
Mercury	NE	20	0.159 J	< 0.0322 UJ	NS
Nickel	NE	1400	26.8 J	8.20 J	NS
Thallium	NE	5.4	< 3.01 U	< 2.86 U	NS
Vanadium	NE	470	37	19.1	NS
Zinc	NE	20000	97.3 J	18.7 J	NS
<b>Metals-SPLP (mg/L)</b>					
Arsenic	0.05	NE	NS	NS	NS
Lead	0.015	NE	NS	NS	NS
Mercury	0.002	NE	NS	NS	NS
<b>PCBs (mg/kg)</b>					
Aroclor 1242	NE	NE	< 0.216 U	NS	NS
Aroclor 1248	NE	NE	< 0.216 U	NS	NS
Aroclor 1260	NE	NE	< 0.216 U	NS	NS
Total PCB Aroclors	NE	1	< 0.216 U	NS	NS
<b>Pesticides (ug/kg)</b>					
4,4-DDD (p,p)	NE	NE	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NS	NS	NS
4,4-DDT (p,p)	NE	NE	NS	NS	NS
alpha-Chlordane	NE	NE	NS	NS	NS
Chlordane	66	490	NS	NS	NS
gamma-Chlordane	NE	NE	NS	NS	NS
Total DDx	3	1800	NS	NS	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NS	NS	NS

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**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed R DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected above the specified laboratory reporting limit.

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas

I/C DEC = Industrial/Commercial Direct Exposure Criteria

The I/C DEC for PCBs applies to inaccessible soil.

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT



Table 4-6  
Soil Analytical Data  
AOC-13  
Southern Area  
Greenwich High School

AOC-13 Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-13 28-SB319 0 - 0.5 ft 28-SB319(0-0.5)-1 4/10/2012 SB46977	AOC-13 28-SB319 3 - 3.5 ft 28-SB319(3-3.5)-1 4/10/2012 SB46977	AOC-13 35-SB488 2.5 - 3.5 ft 35-SB488 (2.5-3.5)-1 7/13/2012 SB52798	AOC-13 A27-SB320 0 - 0.5 ft A27-SB320(0-0.5)-1 4/10/2012 SB46977	AOC-13 A27-SB320 1 - 2 ft A27-SB320(1-2)-1 4/10/2012 SB46977	AOC-13 BR-01 0 - 0 ft BR-1-080211 8/15/2011 SB33506	AOC-13 BR-02 0 - 0 ft BR-2-081511 8/15/2011 SB33506	AOC-13 BR-03 0 - 0 ft BR-3-081511 8/15/2011 SB33506	AOC-13 BR-04 0 - 0 ft BR-4-081511 8/15/2011 SB33506	AOC-13 BR-05 0 - 0 ft BR-5-081511 8/15/2011 SB33506	AOC-13 BR-06 0 - 0 ft BR-6-081511 8/15/2011 SB33506	AOC-13 BR-07 0 - 0 ft BR-7-081511 8/15/2011 SB33506	AOC-13 BR-08 0 - 0 ft BR-8-081511 8/15/2011 SB33506	AOC-13 C11-SB711 0 - 0.5 ft C11-SB711 (0-0.5)-1 12/28/2018 18L1306	AOC-13 C11-SB711 0 - 0.5 ft C11-SB711 (0-0.5)-2 12/28/2018 18L1306	AOC-13 C12-SB712 0 - 0.5 ft C12-SB712 (0-0.5)-1 12/28/2018 18L1306	AOC-13 C11-SB713 0 - 0.5 ft C11-SB713 (0-0.5)-1 12/28/2018 18L1306	AOC-13 C12-SB714 0 - 0.5 ft C12-SB714 (0-0.5)-1 12/28/2018 18L1306	AOC-13 C11-SB610 0 - 0.5 ft C11-SB610 (0-0.5)-1 4/13/2018 18D0644	AOC-13 C11-SS01 0 - 0.25 ft C11-SS-1 0-3 8/15/2011 SB33547	AOC-13 C11-SS01 0 - 0.5 ft C11-SS1-080511 8/15/2011 SB32945	AOC-13 C12-SS252 0 - 0.25 ft C12SS-252 0-3 8/15/2011 SB33547	AOC-13 C13-SS02 0 - 0.5 ft C13-SS2-080511 8/15/2011 SB32945	AOC-13 C14-SS253 0 - 0.25 ft C14SS-253 0-3 8/15/2011 SB33547
<b>PCBs (mg/kg)</b>			NS	< 0.0211 U	< 0.0216 U	< 0.0292 U	< 0.0228 U	NS	NS	NS	NS	NS	NS	NS	< 0.0213 U	< 0.0230 U	< 0.0236 U	< 0.0230 U								
Aroclor 1248	NE	NE	NS	< 0.0211 U	< 0.0216 U	< 0.0292 U	< 0.0228 U	NS	NS	NS	NS	NS	NS	NS	< 0.0213 U	< 0.0230 U	< 0.0236 U	< 0.0230 U								
Aroclor 1254	NE	NE	NS	< 0.0211 U	< 0.0216 U	< 0.0292 U	< 0.0228 U	NS	NS	NS	NS	NS	NS	NS	< 0.0213 U	< 0.0230 U	< 0.0236 U	< 0.0230 U								
Aroclor 1260	NE	NE	NS	< 0.0211 U	< 0.0216 U	< 0.0292 U	< 0.0228 U	NS	NS	NS	NS	NS	NS	NS	< 0.0213 U	< 0.0230 U	< 0.0236 U	< 0.0230 U								
Total PCB Aroclors	NE	1	NS	< 0.0211 U	< 0.0216 U	< 0.0292 U	< 0.0228 U	NS	NS	NS	NS	NS	NS	NS	< 0.0213 U	< 0.0230 U	< 0.0236 U	0.0517								
<b>Pesticides (ug/kg)</b>																										
4,4-DDE (p,p')	NE	NE	34.9	NS	NS	16.9 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p')	NE	NE	16.5	NS	NS	20.7 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alachlor	230	7700	< 6.03 U	NS	NS	< 7.20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	55.7	NS	NS	< 7.20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	66	490	275	NS	NS	< 28.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	< 6.03 U	NS	NS	< 7.20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	43.3	NS	NS	< 7.20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDX	3	1800	51.4	NS	NS	37.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																										
Dieldrin	0.002	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold** = Analyte detected at concentrations above laboratory reporting limit  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed R DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria for GA groundwater areas  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
ug/L = micrograms per liter  
SPLP Pesticide results were compared to the Groundwater Protection Criteria  
Total DDX = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT





Table 4-6  
Soil Analytical Data  
AOC-13  
Southern Area  
Greenwich High School

AOC-13 Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-13 F35-SB487 6 - 7 ft F35-SB487 (6-7)-1 7/13/2012 SB52798	AOC-13 F4-SS11 0 - 0.5 ft F4-SS11-080511 8/5/2011 SB32945	AOC-13 G18-SS12 0 - 0.5 ft G18-SS12-080511 8/5/2011 SB32945	AOC-13 G19-SS13 0 - 0.5 ft G19-SS13-080511 8/5/2011 SB32945	AOC-13 G24-SB244 3 - 3.5 ft G24-SB244(3.0-3.5)-1 12/28/2011 SB41766	AOC-13 G24-SB244 4 - 4.5 ft G24-SB244(4.4-4.5)-1 12/28/2011 SB41766	AOC-13 G30-SB248 4 - 4.5 ft G30-SB248(4.4-4.5)-1 12/29/2011 SB41766	AOC-13 I26-SB247 0.5 - 2.5 ft I26-SB247(0.5-2.5)-1 12/29/2011 SB41766	AOC-13 I26-SB247 2.5 - 3 ft I26-SB247(2.5-3)-1 12/29/2011 SB41766	AOC-13 J16-SS15 0 - 0.5 ft J16-SS15-080511 8/5/2011 SB32945	AOC-13 J22-SS259 0 - 0.25 ft J22-SS259 (0-3') 8/22/2011 SB33952	AOC-13 K21-SS260 0 - 0.25 ft K21-SS260 (0-3) 8/22/2011 SB33952	AOC-13 K23-SB245 1.8 - 3 ft K23-SB245(1.8-3)-1 12/28/2011 SB41766	AOC-13 K2-SS16 0 - 0.5 ft K2-SS16 8/5/2011 SB32945	AOC-13 L14-SB240 1 - 3 ft L14-SB240 (1-3)-1 12/28/2011 SB41720	AOC-13 L14-SB240 3.5 - 4.5 ft L14-SB240 (3.5-4.5)-1 12/28/2011 SB41720	AOC-13 L14-SS17 0 - 0.5 ft L14-SS17-080511 8/5/2011 SB32945	AOC-13 L14-SS17A 0 - 1 ft L14-SS17A(0-1)-1 6/25/2013 SB72106	AOC-13 L21-SS18 0 - 0.5 ft L21-SS18-080511 8/5/2011 SB32945	AOC-13 L22-SS263 0 - 0.25 ft L22-SS263 (0-3) 8/22/2011 SB33952	AOC-13 M22-SB246 1 - 2.5 ft M22-SB246(1-2.5)-1 12/28/2011 SB41766	AOC-13 M22-SB246 2.5 - 3 ft M22-SB246(2.5-3)-1 12/28/2011 SB41766			
ETPH (mg/kg)																											
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	179	175	NS	NS	61.1	NS	NS	25.7	NS	NS	NS	NS	NS	NS	NS	< 14.8 U	NS	150	NS	NS	NS	NS	< 18.2 U	NS	
VOCs (ug/kg)																											
1,2,4-Trimethylbenzene	2800	500000	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NS	NS	NS	NS	NS	NS	NS	< 15.6 U	NS	NS	NS	NS	NS	NS	NS	< 12.3 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	NS	NS	NS	NS	NS	NS	NS	< 6.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	NS	NS	NS	NS	NS	NS	NS	< 15.6 U	NS	NS	NS	NS	NS	NS	NS	< 12.3 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVOCs (ug/kg)																											
Acenaphthene	8400	1000000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Anthracene	40000	1000000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Benzo(a)anthracene	1000	1000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Benzo(a)pyrene	1000	1000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Benzo(b)fluoranthene	1000	1000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Benzo(g,h)perylene	1000	8400	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Benzo(k)fluoranthene	1000	8400	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Chrysene	1000	84000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Dibenzo(a,h)anthracene	1000	1000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Fluoranthene	5600	1000000	< 923 U	< 365 U	NS	NS	671	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Fluorene	5600	1000000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Indeno(1,2,3-cd)pyrene	1000	1000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Phenanthrene	4000	1000000	< 923 U	< 365 U	NS	NS	< 413 U	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Pyrene	4000	1000000	< 923 U	< 365 U	NS	NS	610	NS	NS	< 396 U	NS	NS	NS	NS	NS	NS	NS	< 367 U	NS	< 385 U	NS	NS	NS	NS	NS	< 451 U	NS
Total PAHs	NE	NE	< 923	< 365	NS	NS	1281	NS	NS	< 396	NS	NS	NS	NS	NS	NS	NS	< 367	NS	< 385	NS	NS	NS	NS	NS	< 451	NS
PAHs-SIMS (ug/kg)																											
Acenaphthylene	8400	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	40000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h)perylene	1000	8400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	1000	84000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NS	NS	NS	NS	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals (mg/kg)																											
Arsenic	NE	10	< 7.11 UJ	3.66	6.98	3.31	12.7	3.06	11.1	15.6	11.4	3.28	19	4.9	< 5.43 U	3.51	3.58	2.55	6.16	NS	6.01	3.76	14.6	7.98			
Barium	NE	4700	285	NS	NS	NS	144 J	43.0 J	422 J	119 J	141 J	NS	NS	NS	365 J	NS	104 J	108 J	NS	NS	NS	NS	106 J	110 J			
Beryllium	NE	2	0.735	NS	NS	NS	0.735	< 0.541 U	1.86	1.07	0.805	NS	NS	NS	1.38	NS	0.682	0.837	NS	NS	NS	NS	0.842	1.04			

Table 4-6  
Soil Analytical Data  
AOC-13  
Southern Area  
Greenwich High School

AOC-13 Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-13 F35-SB487 6 - 7 ft F35-SB487 (6-7)-1 7/13/2012 SB52798	AOC-13 F4-SS11 0 - 0.5 ft F4-SS11-080511 8/5/2011 SB32945	AOC-13 G18-SS12 0 - 0.5 ft G18-SS12-080511 8/5/2011 SB32945	AOC-13 G19-SS13 0 - 0.5 ft G19-SS13-080511 8/5/2011 SB32945	AOC-13 G24-SB244 3 - 3.5 ft G24-SB244(3.0-3.5)-1 12/28/2011 SB41766	AOC-13 G24-SB244 4 - 4.5 ft G24-SB244(4.4-5)-1 12/28/2011 SB41766	AOC-13 G30-SB248 4 - 4.5 ft G30-SB248(4.4-5)-1 12/29/2011 SB41766	AOC-13 I26-SB247 0.5 - 2.5 ft I26-SB247(0.5-2.5)-1 12/29/2011 SB41766	AOC-13 I26-SB247 2.5 - 3 ft I26-SB247(2.5-3)-1 12/29/2011 SB41766	AOC-13 J16-SS15 0 - 0.5 ft J16-SS15-080511 8/5/2011 SB32945	AOC-13 J22-SS259 0 - 0.25 ft J22-SS259 (0-3') 8/22/2011 SB33952	AOC-13 K21-SS260 0 - 0.25 ft K21-SS260 (0-3) 8/22/2011 SB33952	AOC-13 K23-SB245 1.8 - 3 ft K23-SB245(1.8-3)-1 12/28/2011 SB41766	AOC-13 K2-SS16 0 - 0.5 ft K2-SS16 8/5/2011 SB32945	AOC-13 L14-SB240 1 - 3 ft L14-SB240 (1-3)-1 12/28/2011 SB41720	AOC-13 L14-SB240 3.5 - 4.5 ft L14-SB240 (3.5-4.5)-1 12/28/2011 SB41720	AOC-13 L14-SS17 0 - 0.5 ft L14-SS17-080511 8/5/2011 SB32945	AOC-13 L14-SS17A 0 - 1 ft L14-SS17A(0-1)-1 6/25/2013 SB72106	AOC-13 L21-SS18 0 - 0.5 ft L21-SS18-080511 8/5/2011 SB32945	AOC-13 L22-SS263 0 - 0.25 ft L22-SS263 (0-3) 8/22/2011 SB33952	AOC-13 M22-SB246 1 - 2.5 ft M22-SB246(1-2.5)-1 12/28/2011 SB41766	AOC-13 M22-SB246 2.5 - 3 ft M22-SB246(2.5-3)-1 12/28/2011 SB41766		
<b>PCBs (mg/kg)</b>																										
Aroclor 1248	NE	NE	< 0.0212 U	< 0.0209 U	< 0.0213 U	< 0.0230 U	< 0.0234 U	< 0.0214 U	< 0.0284 U	< 0.0231 U	< 0.0248 U	< 0.0194 U	< 0.0602 U	< 0.0242 U	<b>0.257</b>	< 0.0216 U	< 0.0219 U	< 0.0215 U	< 0.0227 U	NS	< 0.0241 U	< 0.0283 U	< 0.0272 U	< 0.0235 U	< 0.0235 U	
Aroclor 1254	NE	NE	< 0.0212 U	< 0.0209 U	< 0.0213 U	< 0.0230 U	< 0.0234 U	< 0.0214 U	< 0.0284 U	< 0.0231 U	< 0.0248 U	< 0.0194 U	< 0.0602 U	< 0.0242 U	< 0.0222 U	< 0.0216 U	< 0.0219 U	< 0.0215 U	< 0.0227 U	NS	< 0.0241 U	< 0.0283 U	< 0.0272 U	< 0.0235 U	< 0.0235 U	
Aroclor 1260	NE	NE	< 0.0212 U	< 0.0209 U	< 0.0213 U	< 0.0230 U	< 0.0234 U	< 0.0214 U	< 0.0284 U	< 0.0231 U	< 0.0248 U	< 0.0194 U	< 0.0602 U	< 0.0242 U	< 0.0222 U	< 0.0216 U	< 0.0219 U	< 0.0215 U	< 0.0227 U	NS	< 0.0241 U	< 0.0283 U	< 0.0272 U	< 0.0235 U	< 0.0235 U	
Total PCB Aroclors	NE	1	< 0.0212 U	< 0.0209 U	< 0.0213 U	< 0.0230 U	< 0.0234 U	< 0.0214 U	< 0.0284 U	< 0.0231 U	< 0.0248 U	< 0.0194 U	< 0.0602 U	< 0.0242 U	<b>0.257</b>	< 0.0216 U	< 0.0219 U	< 0.0215 U	< 0.0227 U	NS	< 0.0241 U	< 0.0283 U	< 0.0272 U	< 0.0235 U	< 0.0235 U	
<b>Pesticides (ug/kg)</b>																										
4,4-DDE (p,p')	NE	NE	NS	<b>6.09 J</b>	NS	NS	< 6.30 U	NS	NS	< 6.09 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 4.96 U	NS	NS	NS	< 6.93 U	NS	
4,4-DDT (p,p')	NE	NE	NS	NS R	NS	NS	< 10.1 U	NS	NS	< 9.74 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 7.94 U	NS	NS	NS	< 11.1 U	NS	
Alachlor	230	7700	NS	< 4.87 U	NS	NS	< 6.30 U	NS	NS	< 6.09 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 4.96 U	NS	NS	NS	< 6.93 U	NS	
alpha-Chlordane	NE	NE	NS	<b>10.2 J</b>	NS	NS	< 6.30 U	NS	NS	< 6.09 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 4.96 U	NS	NS	NS	< 6.93 U	NS	
Chlordane	66	490	NS	<b>89.6</b>	NS	NS	< 25.2 U	NS	NS	<b>430</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>26.1</b>	NS	NS	NS	< 27.7 U	NS	
Dieldrin	7	38	NS	< 4.87 U	NS	NS	< 6.30 U	NS	NS	< 6.09 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 4.96 U	NS	NS	NS	< 6.93 U	NS	
gamma-Chlordane	NE	NE	NS	<b>10.8 J</b>	NS	NS	< 6.30 U	NS	NS	<b>43.6</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>5.45</b>	NS	NS	NS	< 6.93 U	NS	
Total DDX	3	1800	NS	<b>6.09</b>	NS	NS	< 6.30 U	NS	NS	< 9.74 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 7.94 U	NS	NS	NS	< 6.93 U	NS	
<b>Pesticides-SPLP (ug/L)</b>																										
Dieldrin	0.002	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold** = Analyte detected at concentrations above laboratory reporting limit  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed R DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria for GA groundwater areas  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
ug/L = micrograms per liter  
SPLP Pesticide results were compared to the Groundwater Protection Criteria  
Total DDX = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

Table 4-6  
Soil Analytical Data  
AOC-13  
Southern Area  
Greenwich High School

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-13 M3-SB241 0.5 - 2 ft M3-SB241 (50-2)-1 12/28/2011 SB41720	AOC-13 M3-SB241 3.5 - 4 ft M3-SB241 (3.5-4)-1 12/28/2011 SB41720	AOC-13 M3-SS19 0 - 0.5 ft M3-SS19-080511 8/5/2011 SB32945	AOC-13 N11-SS258 0 - 0.25 ft N11SS-258 0-3 8/15/2011 SB33547	AOC-13 N21-SS22 0 - 0.5 ft N21-SS22-080511 8/5/2011 SB32945	AOC-13 N4-SS20 0 - 0.5 ft N4-SS20-080511 8/5/2011 SB32945	AOC-13 N4-SS20A 0 - 1 ft N4-SS20A(0-1)-1 6/25/2013 SB72106	AOC-13 NSP-04 0 - 0.5 ft NSP-4-082411 8/24/2011 SB34103	AOC-13 NSP-05 0 - 0.5 ft NSP-5082411 8/24/2011 SB34103	AOC-13 R19-SB249 1 - 2 ft R19-SB249(1-2)-1 12/29/2011 SB41766	AOC-13 R20-SB423 0 - 1 ft R20-SB423(0-1)-1 7/3/2012 SB52216	AOC-13 R20-SB423 3 - 4 ft R20-SB423(3-4)-1 7/3/2012 SB52216	AOC-13 R20-SB423 7 - 8 ft R20-SB423(7-8)-1 7/3/2012 SB52216	AOC-13 Scoreboard Trench 01 0 - 2 ft Scoreboard Trench 01 (0-2) 6/28/2018 18F1465	AOC-13 Scoreboard Trench 02 0 - 2 ft Scoreboard Trench 02 (0-2) 6/28/2018 18F1465	AOC-13 Scoreboard Trench 03 0 - 2 ft Scoreboard Trench 03 (0-2) 6/28/2018 18F1465	AOC-13 Scoreboard Trench 04 0 - 2 ft Scoreboard Trench 04 (0-2) 6/28/2018 18F1465	AOC-13 SS-234 0 - 0.25 ft SS-234 0-3-081511 8/15/2011 SB33506	AOC-13 SS-235 0 - 0.25 ft SS-235 0-3-081511 8/15/2011 SB33506	AOC-13 SS-236 0 - 0.25 ft SS-236 0-3-081511 8/15/2011 SB33506			
<b>ETPH (mg/kg)</b>																									
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	< 16.0 U	NS	NS	NS	NS	136	NS	99.3	137	21.4	NS	NS	< 27.2 U	NS	NS	NS	NS	NS	NS	NS	NS		
<b>VOCs (ug/kg)</b>																									
1,2,4-Trimethylbenzene	2800	500000	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	40.7	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
1,3,5-Trimethylbenzene	2800	500000	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	10.8	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
Ethylbenzene	10100	500000	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	3.6	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
m,p-Xylenes	NE	NE	< 14.7 U	NS	NS	NS	NS	NS	NS	< 8.8	16.6	< 13.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 141 U	NS	NS
Naphthalene	5600	1000000	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	8.4	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
n-Butylbenzene	7000	500000	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	5.3	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
n-Propylbenzene	1000	500000	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	4.8	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
o-Xylene	NE	NE	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	8.5	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
sec-Butylbenzene	7000	500000	< 7.3 U	NS	NS	NS	NS	NS	NS	< 4.4	3.6	< 6.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 70.3 U	NS	NS
Total Xylenes	19500	500000	< 14.7 U	NS	NS	NS	NS	NS	NS	< 8.8 U	25.1	< 13.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 141 U	NS	NS
<b>SVOCS (ug/kg)</b>																									
Acenaphthene	8400	1000000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Anthracene	40000	1000000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Benzo(a)anthracene	1000	1000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Benzo(a)pyrene	1000	1000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Benzo(b)fluoranthene	1000	1000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Benzo(g,h,i)perylene	1000	8400	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Benzo(k)fluoranthene	1000	8400	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Chrysene	1000	84000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Dibenzo(a,h)anthracene	1000	1000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Fluoranthene	5600	1000000	< 398 U	NS	NS	NS	NS	1230	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Fluorene	5600	1000000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Indeno(1,2,3-cd)pyrene	1000	1000	< 398 U	NS	NS	NS	NS	< 419 U	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Phenanthrene	4000	1000000	< 398 U	NS	NS	NS	NS	1260	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Pyrene	4000	1000000	< 398 U	NS	NS	NS	NS	1100	NS	< 360	< 430	< 373 U	NS	NS	< 177 U	NS	NS	NS	NS	NS	NS	NS	< 195 U	< 470 U	< 202 U
Total PAHs	NE	NE	< 398	NS	NS	NS	NS	4057	NS	< 360	< 430	< 373	NS	NS	< 177	NS	NS	NS	NS	NS	NS	NS	< 195	< 470	< 202
<b>PAHs-SIMS (ug/kg)</b>																									
Acenaphthylene	8400	1000000	NS	NS	NS	NS	NS	NS	< 86	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	40000	1000000	NS	NS	NS	NS	NS	NS	< 86	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NS	NS	NS	NS	NS	NS	100	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NS	NS	NS	NS	NS	NS	99	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NS	NS	NS	NS	NS	NS	150	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	NS	NS	NS	NS	NS	NS	< 86	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NS	NS	NS	NS	NS	NS	< 86	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	1000	84000	NS	NS	NS	NS	NS	NS	110	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	NS	NS	NS	NS	NS	NS	< 86	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NS	NS	NS	NS	NS	NS	200	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NS	NS	NS	NS	NS	NS	< 86	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NS	NS	NS	NS	NS	NS	< 86	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NS	NS	NS	NS	NS	NS	180	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NS	NS	NS	NS	NS	NS	839	< 720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>																									
Arsenic	NE	10	4.44	2.13	4.9	8.22	5.48	6.92	NS	2.98	3.58	3.75	NS	< 1.50 U	< 1.56 U	2.3	2	< 1.9	< 2.0	1.77	1.94	3.37			
Barium	NE	4700	85.8 J	27.3 J	NS	NS	NS	NS	NS	NS	NS	256 J	NS	181 J+	165 J+	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	0.683	< 0.455 U	NS	NS	NS	NS	NS	NS	NS	1.14	NS	0.724	1.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	1.08 J	< 0.455 U	NS	NS	NS	< 0.596 U	NS	0.619	0.686	< 0.557 U	NS	< 0.500 U	< 0.521 U	NS	NS	NS	NS	NS	NS	NS	< 0.508 U	< 0.569 U	< 0.542 U
Chromium	NE	NE	32.3 J	5.81 J	NS	NS	NS	NS	NS	31.2	34.8	50.0 J	NS	22.2 J-	41.6 J-	NS	NS	NS	NS						

Table 4-6  
Soil Analytical Data  
AOC-13  
Southern Area  
Greenwich High School

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-13 M3-SB241 0.5 - 2 ft M3-SB241 (50-2)-1 12/28/2011 SB41720	AOC-13 M3-SB241 3.5 - 4 ft M3-SB241 (3.5-4)-1 12/28/2011 SB41720	AOC-13 M3-SS19 0 - 0.5 ft M3-SS19-080511 8/5/2011 SB32945	AOC-13 N11-SS258 0 - 0.25 ft N11SS-258 0-3 8/15/2011 SB33547	AOC-13 N21-SS22 0 - 0.5 ft N21-SS22-080511 8/5/2011 SB32945	AOC-13 N4-SS20 0 - 0.5 ft N4-SS20-080511 8/5/2011 SB32945	AOC-13 N4-SS20A 0 - 1 ft N4-SS20A(0-1)-1 6/25/2013 SB72106	AOC-13 NSP-04 0 - 0.5 ft NSP-4-082411 8/24/2011 SB34103	AOC-13 NSP-05 0 - 0.5 ft NSP-5082411 8/24/2011 SB34103	AOC-13 R19-SB249 1 - 2 ft R19-SB249(1-2)-1 12/29/2011 SB41766	AOC-13 R20-SB423 0 - 1 ft R20-SB423(0-1)-1 7/3/2012 SB52216	AOC-13 R20-SB423 3 - 4 ft R20-SB423(3-4)-1 7/3/2012 SB52216	AOC-13 R20-SB423 7 - 8 ft R20-SB423(7-8)-1 7/3/2012 SB52216	AOC-13 Scoreboard Trench 01 0 - 2 ft Scoreboard Trench 01 (0-2) 6/28/2018 18F1465	AOC-13 Scoreboard Trench 02 0 - 2 ft Scoreboard Trench 02 (0-2) 6/28/2018 18F1465	AOC-13 Scoreboard Trench 03 0 - 2 ft Scoreboard Trench 03 (0-2) 6/28/2018 18F1465	AOC-13 Scoreboard Trench 04 0 - 2 ft Scoreboard Trench 04 (0-2) 6/28/2018 18F1465	AOC-13 SS-234 0 - 0.25 ft SS-234 0-3-081511 8/15/2011 SB33506	AOC-13 SS-235 0 - 0.25 ft SS-235 0-3-081511 8/15/2011 SB33506	AOC-13 SS-236 0 - 0.25 ft SS-236 0-3-081511 8/15/2011 SB33506	
<b>PCBs (mg/kg)</b>																							
Aroclor 1248	NE	NE	< 0.0240 U	< 0.0196 U	< 0.0249 U	< 0.0245 U	< 0.0222 U	< 0.0254 U	NS	<b>0.0451</b>	<b>0.027</b>	< 0.0225 U	NS	< 0.0196 U	< 0.0205 U	NS	NS	NS	NS	NS	< 0.0247 U	< 0.0226 U	<b>0.342</b>
Aroclor 1254	NE	NE	< 0.0240 U	< 0.0196 U	< 0.0249 U	< 0.0245 U	< 0.0222 U	< 0.0254 U	NS	< 0.0213	< 0.0213	<b>0.17</b>	NS	< 0.0196 U	< 0.0205 U	NS	NS	NS	NS	NS	< 0.0247 U	< 0.0226 U	< 0.0246 U
Aroclor 1260	NE	NE	< 0.0240 U	< 0.0196 U	< 0.0249 U	< 0.0245 U	< 0.0222 U	< 0.0254 U	NS	< 0.0213	< 0.0213	<b>0.0304</b>	NS	< 0.0196 U	< 0.0205 U	NS	NS	NS	NS	NS	< 0.0247 U	< 0.0226 U	<b>0.0365</b>
Total PCB Aroclors	NE	1	< 0.0240 U	< 0.0196 U	< 0.0249 U	< 0.0245 U	< 0.0222 U	< 0.0254 U	NS	<b>0.0451</b>	<b>0.027</b>	<b>0.20</b>	NS	< 0.0196 U	< 0.0205 U	NS	NS	NS	NS	NS	< 0.0247 U	< 0.0226 U	<b>0.379</b>
<b>Pesticides (ug/kg)</b>																							
4,4-DDE (p,p')	NE	NE	NS	NS	NS	NS	NS	< 4.60 U	NS	<b>7.21</b>	< 5.26	< 5.76 U	< 5.54 U	NS	NS	<b>28</b>	<b>8.3</b>	< 4.8	<b>9.8</b>	<b>5.27</b>	< 4.59 U	< 4.31 U	
4,4-DDT (p,p')	NE	NE	NS	NS	NS	NS	NS	< 7.36 U	NS	< 8.71	< 8.41	< 9.22 U	< 8.86 U	NS	NS	<b>28</b>	<b>6</b>	< 4.8	<b>7.7</b>	<b>10.4</b>	< 4.8	< 6.89 U	
Alachlor	230	7700	NS	NS	NS	NS	NS	< 4.60 U	NS	< 5.44	< 5.26	< 5.76 U	< 5.54 U	NS	NS	< 23	< 23	< 24	< 23	< 5.19 U	< 4.59 U	< 4.31 U	
alpha-Chlordane	NE	NE	NS	NS	NS	NS	NS	< 4.60 U	NS	< 5.44	< 5.26	< 5.76 U	< 5.54 U	NS	NS	NS	NS	NS	NS	< 5.19 U	< 4.59 U	< 4.31 U	
Chlordane	66	490	NS	NS	NS	NS	NS	< 18.4 U	NS	< 21.8	< 21.0	< 23.1 U	< 22.1 U	NS	NS	<b>46</b>	< 23	< 24	< 23	< 20.7 U	< 18.3 U	< 17.2 U	
Dieldrin	7	38	NS	NS	NS	NS	NS	< 4.60 U	NS	< 5.44	< 5.26	< 5.76 U	< 5.54 U	NS	NS	<b>5.4</b>	< 4.7	< 4.8	< 4.7	< 5.19 U	< 4.59 U	< 4.31 U	
gamma-Chlordane	NE	NE	NS	NS	NS	NS	NS	< 4.60 U	NS	< 5.44	< 5.26	< 5.76 U	< 5.54 U	NS	NS	NS	NS	NS	NS	< 5.19 U	< 4.59 U	< 4.31 U	
Total DDx	3	1800	NS	NS	NS	NS	NS	< 7.36	NS	<b>7.21</b>	< 8.41	< 9.22	< 8.86	NS	NS	<b>56</b>	<b>14.3</b>	< 4.8	<b>17.5</b>	<b>15.67</b>	< 4.59 U	< 4.31 U	
<b>Pesticides-SPLP (ug/L)</b>																							
Dieldrin	0.002	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.0068</b>	< 0.0020	< 0.0020	< 0.0020	< 0.0020	NS	NS	NS

Notes:  
This is a summary table. Only detected compounds are presented.  
**Bold** = Analyte detected at concentrations above laboratory reporting limit  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed R DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria for GA groundwater areas  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
ug/L = micrograms per liter  
SPLP Pesticide results were compared to the Groundwater Protection Criteria  
Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

Table 4-6  
Soil Analytical Data  
AOC-13  
Southern Area  
Greenwich High School

AOC-13 Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-13 SS-237 0 - 0.25 ft SS-237 0-3-081511 8/15/2011 SB33506	AOC-13 SS-238 0 - 0.25 ft SS-238 0-3-081511 8/15/2011 SB33506	AOC-13 SS-238A 0 - 0.25 ft SS-238A (0-3) 8/22/2011 SB33952	AOC-13 SS-238B 0 - 0.25 ft SS-238B (0-3) 8/22/2011 SB33952	AOC-13 SS-238C 0 - 0.25 ft SS-238C (0-3) 8/22/2011 SB33952	AOC-13 SS-238D 0 - 0.25 ft SS-238D (0-3) 8/22/2011 SB33952	AOC-13 SS-241 0 - 0.25 ft SS-241 0-3-081511 8/15/2011 SB33506
<b>ETPH (mg/kg)</b>									
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	NS	NS	NS	NS	NS	NS
<b>VOCs (ug/kg)</b>									
1,2,4-Trimethylbenzene	2800	500000	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
1,3,5-Trimethylbenzene	2800	500000	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
Ethylbenzene	10100	500000	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
m,p-Xylenes	NE	NE	NS	< 28.2 U	NS	NS	NS	NS	< 13.2 U
Naphthalene	5600	1000000	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
n-Butylbenzene	7000	500000	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
n-Propylbenzene	1000	500000	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
o-Xylene	NE	NE	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
sec-Butylbenzene	7000	500000	NS	< 14.1 U	NS	NS	NS	NS	< 6.6 U
Total Xylenes	19500	500000	NS	< 28.2 U	NS	NS	NS	NS	< 13.2 U
<b>SVOCs (ug/kg)</b>									
Acenaphthene	8400	1000000	< 233 U	< 524 U	NS	NS	NS	NS	< 241 U
Anthracene	40000	1000000	< 233 U	< 524 U	NS	NS	NS	NS	< 241 U
Benzo(a)anthracene	1000	1000	< 233 U	< 524 U	NS	NS	NS	NS	433
Benzo(a)pyrene	1000	1000	< 233 U	< 524 UJ	NS	NS	NS	NS	405
Benzo(b)fluoranthene	1000	1000	< 233 U	< 524 UJ	NS	NS	NS	NS	373
Benzo(g,h,i)perylene	7000	8400	< 233 U	< 524 UJ	NS	NS	NS	NS	< 241 U
Benzo(k)fluoranthene	1000	8400	< 233 U	< 524 UJ	NS	NS	NS	NS	420
Chrysene	1000	84000	< 233 U	< 524 U	NS	NS	NS	NS	456
Dibenzo(a,h)anthracene	1000	1000	< 233 U	< 524 UJ	NS	NS	NS	NS	< 241 U
Fluoranthene	5600	1000000	< 233 U	< 524 U	NS	NS	NS	NS	746
Fluorene	5600	1000000	< 233 U	< 524 U	NS	NS	NS	NS	< 241 U
Indeno(1,2,3-cd)pyrene	1000	1000	< 233 U	< 524 UJ	NS	NS	NS	NS	< 241 U
Phenanthrene	4000	1000000	< 233 U	< 524 U	NS	NS	NS	NS	373
Pyrene	4000	1000000	< 233 U	< 524 U	NS	NS	NS	NS	742
Total PAHs	NE	NE	< 233	< 524	NS	NS	NS	NS	3948
<b>PAHs-SIMS (ug/kg)</b>									
Acenaphthylene	8400	1000000	NS	NS	NS	NS	NS	NS	NS
Anthracene	40000	1000000	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	7000	8400	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NS	NS	NS	NS	NS	NS	NS
Chrysene	1000	84000	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NS	NS	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>									
Arsenic	NE	10	7.43	15.1	17.1	2.64	18.2	3.86	9.83
Barium	NE	4700	NS	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	NS	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	< 0.671 U	< 1.05 U	NS	NS	NS	NS	< 0.698 U
Chromium	NE	NE	50.1	48.6	NS	NS	NS	NS	33.3
Copper	NE	2500	NS	NS	NS	NS	NS	NS	NS
Lead	NE	400	45.1	120	NS	NS	NS	NS	106
Mercury	NE	20	0.0687	0.377	NS	NS	NS	NS	0.14
Nickel	NE	1400	NS	NS	NS	NS	NS	NS	NS
Vanadium	NE	470	NS	NS	NS	NS	NS	NS	NS
Zinc	NE	20000	NS	NS	NS	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>									
Arsenic	0.05	NE	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NS	NS	NS	NS	NS	NS	NS

Table 4-6  
Soil Analytical Data  
AOC-13  
Southern Area  
Greenwich High School

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-13 SS-237 0 - 0.25 ft SS-237 0-3-081511 8/15/2011 SB33506	AOC-13 SS-238 0 - 0.25 ft SS-238 0-3-081511 8/15/2011 SB33506	AOC-13 SS-238A 0 - 0.25 ft SS-238A (0-3) 8/22/2011 SB33952	AOC-13 SS-238B 0 - 0.25 ft SS-238B (0-3) 8/22/2011 SB33952	AOC-13 SS-238C 0 - 0.25 ft SS-238C (0-3) 8/22/2011 SB33952	AOC-13 SS-238D 0 - 0.25 ft SS-238D (0-3) 8/22/2011 SB33952	AOC-13 SS-241 0 - 0.25 ft SS-241 0-3-081511 8/15/2011 SB33506
<b>PCBs (mg/kg)</b>									
Aroclor 1248	NE	NE	<b>0.0679</b>	<b>0.427</b>	< 0.0412 U	< 0.0221 U	< 0.0293 U	< 0.0238 U	< 0.0290 U
Aroclor 1254	NE	NE	< 0.0275 U	< 0.0437 U	< 0.0412 U	< 0.0221 U	< 0.0293 U	< 0.0238 U	< 0.0290 U
Aroclor 1260	NE	NE	< 0.0275 U	< 0.0437 U	< 0.0412 U	< 0.0221 U	< 0.0293 U	< 0.0238 U	< 0.0290 U
Total PCB Aroclors	NE	1	<b>0.0679</b>	<b>0.427</b>	< 0.0412 U	< 0.0221 U	< 0.0293 U	< 0.0238 U	< 0.0290 U
<b>Pesticides (ug/kg)</b>									
4,4-DDE (p,p')	NE	NE	< 5.36 U	<b>33.3</b>	NS	NS	NS	NS	<b>17.8</b>
4,4-DDT (p,p')	NE	NE	<b>22.5</b>	< 14.4 U	NS	NS	NS	NS	< 10.4 U
Alachlor	230	7700	< 5.36 U	< 9.02 U	NS	NS	NS	NS	< 6.48 U
alpha-Chlordane	NE	NE	< 5.36 U	< 9.02 U	NS	NS	NS	NS	< 6.48 U
Chlordane	66	490	< 21.4 U	< 36.1 U	NS	NS	NS	NS	< 25.9 U
Dieldrin	7	38	< 5.36 U	< 9.02 U	NS	NS	NS	NS	< 6.48 U
gamma-Chlordane	NE	NE	< 5.36 U	< 9.02 U	NS	NS	NS	NS	< 6.48 U
Total DDX	3	1800	<b>22.5</b>	<b>33.3</b>	NS	NS	NS	NS	<b>17.8</b>
<b>Pesticides-SPLP (ug/L)</b>									
Dieldrin	0.002	NE	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.  
**Bold** = Analyte detected at concentrations above laboratory reporting limit  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed R DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected at concentrations above the specified laboratory reporting limit

R DEC = Residential Direct Exposure Criteria .

GA PMC = Pollutant Mobility Criteria for GA groundwater areas

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

ug/L = micrograms per liter

SPLP Pesticide results were compared to the Groundwater Protection Criteria

Total DDX = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

**Table 4-7  
Soil Analytical Data  
AOC-14  
Parking Lots and Other Paved Areas  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-14 AF23-SB203 0 - 1 ft AF23-SB203(0-1)-1 10/2/2011 SB36674	AOC-14 AF23-SB203 8 - 9 ft AF23-SB203(8-9)-1 10/2/2011 SB36674	AOC-14 AF23-SB203 11.5 - 12 ft AF23-SB203(11.5-12)-1 10/2/2011 SB36674	AOC-14 AF24-SB217 0 - 0.5 ft AF24-SB217(0-0.5) 10/9/2011 SB37166	AOC-14 AF24-SB217 0 - 1 ft AF24-SB217(0-1) 10/9/2011 SB37166	AOC-14 AF24-SB217 0 - 4 ft AF24-SB217(0-4) 10/9/2011 SB37166	AOC-14 AF24-SB217 4 - 5 ft AF24-SB217(4-5) 10/9/2011 SB37166	AOC-14 AF24-SB217 5 - 6 ft AF24-SB217(5-6) 10/9/2011 SB37166	AOC-14 AF24-SB217 5 - 9 ft AF24-SB217(5-9) 10/9/2011 SB37166	AOC-14 AF24-SB217 8 - 9 ft AF24-SB217(8-9) 10/9/2011 SB37166	AOC-14 AG28-SB407 0.5 - 1 ft AG28-SB407(0.5-1)-1 6/28/2012 SB51990	AOC-14 AG28-SB407 4 - 5 ft AG28-SB407(4-5)-1 6/28/2012 SB51990	AOC-14 AG30-SB406 0.5 - 1 ft AG30-SB406(0.5-1)-1 6/28/2012 SB51990	AOC-14 AG30-SB406 4.5 - 5.5 ft AG30-SB406(4.5-5.5)-1 6/28/2012 SB51990	AOC-14 AH23-SB204 7 - 8 ft AH23-SB204(7-8)-1 10/2/2011 SB36674	AOC-14 AH23-SB204 15.5 - 16 ft AH23-SB204(15.5-16)-1 10/2/2011 SB36674	AOC-14 AH29-SB231 0.4 - 0.6 ft AH29-SB231(0.4-0.6)-1 12/27/2011 SB41683	AOC-14 AH29-SB231 1.2 - 1.5 ft AH29-SB231(1.2-1.5)-1 12/30/2011 SB41831	
<b>ETPH (mg/kg)</b>																					
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	137	< 26.5 U	< 27.8 U	< 26.4 U	NS	NS	1260 J	NS	NS
<b>ETPH-SPLP (mg/l)</b>																					
ETPH-SPLP	0.25	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>																					
Anthracene	40000	1000000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Benzo(a)anthracene	1000	1000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Benzo(a)pyrene	1000	1000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Benzo(b)fluoranthene	1000	1000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Benzo(g,h,i)perylene	1000	8400	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Benzo(k)fluoranthene	1000	8400	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Chrysene	1000	84000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Fluoranthene	5600	1000000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Fluorene	5600	1000000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Indeno(1,2,3-cd)pyrene	1000	1000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Naphthalene	5600	1000000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Phenanthrene	4000	1000000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
Pyrene	4000	1000000	< 393 U	< 179 U	NS	NS	NS	NS	< 181 U	< 175 U	NS	NS	NS	NS	NS	NS	NS	< 179 U	NS	< 851 U	NS
<b>SVOCs-SPLP (ug/l)</b>																					
Acenaphthene	420	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>																					
Antimony	NE	27	<b>16.9 J-</b>	< 5.12 UJ	NS	NS	NS	< 5.14 U	NS	NS	< 4.64 U	NS	NS	NS	NS	NS	NS	< 5.28 UJ	NS	< 4.99 U	< 4.95 UJ
Arsenic	NE	10	<b>4.88</b>	< 1.53 U	NS	NS	NS	<b>5.25</b>	NS	NS	<b>3.86</b>	NS	NS	NS	NS	NS	NS	<b>1.90</b>	NS	<b>9.16</b>	<b>2.47</b>
Barium	NE	4700	<b>60.4</b>	<b>105</b>	NS	NS	NS	<b>137</b>	NS	NS	<b>86.0</b>	NS	NS	NS	NS	NS	NS	<b>74.7</b>	NS	<b>40.5</b>	<b>51.2</b>
Beryllium	NE	2	< 0.507 U	<b>0.844</b>	NS	NS	NS	<b>0.685</b>	NS	NS	<b>0.608</b>	NS	NS	NS	NS	NS	NS	< 0.499 U	NS	< 0.495 U	< 0.495 U
Cadmium	NE	34	< 0.507 U	< 0.512 U	NS	NS	NS	< 0.514 U	NS	NS	< 0.464 U	NS	NS	NS	NS	NS	NS	< 0.528 U	NS	<b>0.907</b>	< 0.495 U
Chromium	NE	NE	<b>20.6</b>	<b>20.5</b>	NS	NS	NS	<b>32.0</b>	NS	NS	<b>20.5</b>	NS	NS	NS	NS	NS	NS	<b>13.5</b>	NS	<b>9.45</b>	<b>14.4 J</b>
Copper	NE	2500	<b>21.9</b>	<b>11.6</b>	NS	NS	NS	<b>13.5</b>	NS	NS	<b>11.9</b>	NS	NS	NS	NS	NS	NS	<b>7.74</b>	NS	<b>37.5</b>	<b>10.1</b>
Lead	NE	400	<b>47.4</b>	<b>6.32</b>	NS	NS	NS	<b>18.4</b>	NS	NS	<b>7.10</b>	NS	NS	NS	NS	NS	NS	<b>5.60</b>	NS	<b>9.74</b>	<b>8.28 J</b>
Mercury	NE	20	<b>0.0752 J+</b>	< 0.0303 U	NS	NS	NS	< 0.0323 U	NS	NS	< 0.0293 U	NS	NS	NS	NS	NS	NS	< 0.0296 U	NS	< 0.0304 U	< 0.0319 U
Nickel	NE	1400	<b>13.2</b>	<b>13.0</b>	NS	NS	NS	<b>16.6</b>	NS	NS	<b>10.8</b>	NS	NS	NS	NS	NS	NS	<b>7.73</b>	NS	<b>10.6</b>	<b>7.84</b>
Vanadium	NE	470	<b>23.7</b>	<b>22.6</b>	NS	NS	NS	<b>28.6</b>	NS	NS	<b>18.3</b>	NS	NS	NS	NS	NS	NS	<b>15.4</b>	NS	<b>35.6</b>	<b>17.8</b>
Zinc	NE	20000	<b>65.6</b>	<b>31.4</b>	NS	NS	NS	<b>49.4</b>	NS	NS	<b>30.2</b>	NS	NS	NS	NS	NS	NS	<b>22.4</b>	NS	<b>43.0</b>	<b>22.6</b>
<b>PCBs (mg/kg)</b>																					
Aroclor 1260	NE	NE	< 0.0229 U	< 0.0216 U	< 0.0206 U	< 0.0208 U	NS	NS	< 0.0203 U	<b>0.0654</b>	NS	< 0.0218 U	NS	NS	NS	NS	NS	< 0.0217 U	< 0.0226 U	< 0.0189 U	< 0.0216 U
Total PCB Aroclors	NE	1	< 0.0229 U	< 0.0216 U	< 0.0206 U	< 0.0208 U	NS	NS	< 0.0203 U	<b>0.0654</b>	NS	< 0.0218 U	NS	NS	NS	NS	NS	< 0.0217 U	< 0.0226 U	< 0.0189 U	< 0.0216 U

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected at concentrations above laboratory reporting limit**  
**Yellow highlighted results exceed GA/GAA PMC.**  
**Blue highlighted results exceed R DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected above the specified laboratory reporting limit.  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
SPLP ETPH and SVOCs were compared to the GWPC

**Table 4-7  
Soil Analytical Data  
AOC-14  
Parking Lots and Other Paved Areas  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-14 AI29-SB405 0.5 - 1 ft AI29-SB405(0.5-1)-1 6/28/2012 SB51990	AOC-14 AI29-SB405 4 - 5 ft AI29-SB405(4-5)-1 6/28/2012 SB51990	AOC-14 AJ23-SB207 0 - 0.5 ft AJ23-SB207(0-.5)-1 10/2/2011 SB36674	AOC-14 AJ23-SB207 2.5 - 3 ft AJ23-SB207(2.5-3)-1 10/2/2011 SB36674	AOC-14 AT29-SB297 3 - 5 ft AT29-SB297(3-5)-1 2/15/2012 SB43969	AOC-14 AV32-SB494 2 - 4 ft AV32-SB494 (2-4)-1 7/13/2012 SB52798	AOC-14 AV32-SB494 4 - 6 ft AV32-SB494 (4-6)-1 7/13/2012 SB52798	AOC-14 AW31-SB495 2 - 4 ft AW31-SB495 (2-4)-1 7/13/2012 SB52798	AOC-14 AW32-SB254 2 - 4 ft AW32-SB254 (2-4)-1 12/30/2011 SB41831	AOC-14 AW32-SB254 5 - 6 ft AW32-SB254 (5-6)-1 12/30/2011 SB41831	AOC-14 AW32-SB254 6 - 7 ft AW32-SB254 (6-7)-1 12/30/2011 SB41831	AOC-14 AX32-SB398 2 - 4 ft AX32-SB398(2-4)-1 6/27/2012 SB51902	AOC-14 AX32-SB398 4 - 6 ft AX32-SB398(4-6)-1 6/27/2012 SB51902	AOC-14 BB34-SB397 2 - 3 ft BB34-SB397 (2-3)-1 6/27/2012 SB51902	AOC-14 C10-SB426 4 - 5 ft C10-SB421(4.0-5.0)-1 7/3/2012 SB52216	AOC-14 C10-SB426 7 - 8 ft C10-SB421(7.0-8.0)-1 7/3/2012 SB52216	AOC-14 D10-SB242 0.3 - 4 ft D10-SB242 (.3-4)-1 12/28/2011 SB41720	AOC-14 D10-SB242 6 - 6.5 ft D10-SB242 (6-6.5)-1 12/28/2011 SB41720	
<b>ETPH (mg/kg)</b>																					
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	< 27.7 U	< 28.8 U	NS	34.5	< 14.9 U	< 28.6 U	< 31.5 U	< 26.7 U	540 J+	NS	NS	< 31.5 U	< 29.9 U	NS	< 27.7 U	< 27.8 U	< 14.4 U	1060	
<b>ETPH-SPLP (mg/l)</b>																					
ETPH-SPLP	0.25	NE	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>																					
Anthracene	40000	1000000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 UJ	10100 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Benzo(a)anthracene	1000	1000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	14400 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Benzo(a)pyrene	1000	1000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	9680 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Benzo(b)fluoranthene	1000	1000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	8850 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Benzo(g,h,i)perylene	1000	8400	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	3720 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Benzo(k)fluoranthene	1000	8400	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	7920 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Chrysene	1000	8400	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 UJ	9200 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Fluoranthene	5600	1000000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 UJ	26300 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Fluorene	5600	1000000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	4220 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	3960 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Naphthalene	5600	1000000	NS	NS	NS	< 397 U	< 369 U	457	< 205 U	< 171 UJ	< 1840 UJ	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Phenanthrene	4000	1000000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	33000 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
Pyrene	4000	1000000	NS	NS	NS	< 397 U	< 369 U	< 183 U	< 205 U	< 171 U	27500 J	NS	NS	< 198 U	< 190 U	NS	NS	NS	NS	< 357 U	NS
<b>SVOCs-SPLP (ug/l)</b>																					
Acenaphthene	420	NE	NS	NS	NS	NS	NS	NS	NS	NS	2.28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	NE	NS	NS	NS	NS	NS	NS	NS	NS	1.56	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	NE	NS	NS	NS	NS	NS	NS	NS	NS	0.0700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	1.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	3.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	NE	NS	NS	NS	NS	NS	NS	NS	NS	7.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	NE	NS	NS	NS	NS	NS	NS	NS	NS	< 1.00 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	15.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>																					
Antimony	NE	27	NS	NS	NS	< 5.38 UJ	< 5.29 UJ	NS	NS	NS	< 5.26 UJ	NS	NS	< 4.82 UJ	NS	NS	< 5.30 U	NS	NS	< 4.86 UJ	< 4.94 UJ
Arsenic	NE	10	NS	NS	NS	3.56	2.36	NS	NS	NS	3.74	NS	NS	2.86	NS	NS	3.13 J+	NS	NS	2.20	2.43
Barium	NE	4700	NS	NS	NS	78.3	101	NS	NS	NS	107	NS	NS	51.2	NS	NS	160	NS	NS	77.7 J	66.2 J
Beryllium	NE	2	NS	NS	NS	0.613	.75	NS	NS	NS	0.895	NS	NS	< 0.482 U	NS	NS	0.842	NS	NS	0.618	< 0.494 U
Cadmium	NE	34	NS	NS	NS	< 0.538 U	< 0.529 UJ	NS	NS	NS	< 0.526 U	NS	NS	< 0.482 U	NS	NS	< 0.530 U	NS	NS	0.710 J	0.677 J
Chromium	NE	NE	NS	NS	NS	17.6	15.7	NS	NS	NS	18.2	NS	NS	11.3	NS	NS	28.4	NS	NS	20.4 J	19.9 J
Copper	NE	2500	NS	NS	NS	10.6	16.7 J	NS	NS	NS	12.0	NS	NS	7.36	NS	NS	8.93	NS	NS	10.9 J	12.1 J
Lead	NE	400	NS	NS	NS	26.8	5.1	NS	NS	NS	142 J+	NS	NS	5.40	NS	NS	11.3	NS	NS	7.18 J	5.94 J
Mercury	NE	20	NS	NS	NS	0.0566 J+	< 0.0293 UJ	NS	NS	NS	0.129 J+	NS	NS	< 0.0308 U	NS	NS	< 0.0331 U	NS	NS	< 0.0319 U	< 0.0299 U
Nickel	NE	1400	NS	NS	NS	9.40	9.70 J	NS	NS	NS	9.43	NS	NS	6.61	NS	NS	13.1	NS	NS	11.8 J	12.8 J
Vanadium	NE	470	NS	NS	NS	19.6	21.1	NS	NS	NS	25.7	NS	NS	22.2	NS	NS	28.7	NS	NS	21.7 J+	25.9 J+
Zinc	NE	20000	NS	NS	NS	36.4	21.0 J	NS	NS	NS	89.2	NS	NS	18.3	NS	NS	27.5	NS	NS	29.6 J	27.4 J
<b>PCBs (mg/kg)</b>																					
Aroclor 1260	NE	NE	NS	NS	< 0.0202 U	NS	< 0.022 U	NS	NS	NS	< 0.0213 U	< 0.0209 U	< 0.0215 U	NS	NS	< 0.0235 U	NS	NS	NS	< 0.0206 U	< 0.0215 U
Total PCB Aroclors	NE	1	NS	NS	< 0.0202 U	NS	< 0.022 U	NS	NS	NS	< 0.0213 U	< 0.0209 U	< 0.0215 U	NS	NS	< 0.0235 U	NS	NS	NS	< 0.0206 U	< 0.0215 U

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected at concentrations above laboratory reporting limit**  
**Yellow highlighted results exceed GA/GAA PMC.**  
**Blue highlighted results exceed R DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected above the specified laboratory reporting limit.  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
SPLP ETPH and SVOCs were compared to the GWPC

**Table 4-7  
Soil Analytical Data  
AOC-14  
Parking Lots and Other Paved Areas  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	AOC-14 D10-SB611 6 - 6.5 ft D10-SB611 (6-6.5)-1 4/13/2018 18D0644	AOC-14 D11-SB424 4 - 5 ft D11-SB424(4-5)-1 7/3/2012 SB52216	AOC-14 D11-SB424 6 - 7 ft D11-SB424(6-7)-1 7/3/2012 SB52216	AOC-14 E9-SB425 4 - 5 ft E9-SB425(4-5)-1 7/3/2012 SB52216	AOC-14 E9-SB425 8 - 9 ft E9-SB425(8-9)-1 7/3/2012 SB52216
<b>ETPH (mg/kg)</b>							
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NS	< 28.5 U	< 28.3 U	< 26.1 U	< 28.4 U
<b>ETPH-SPLP (mg/l)</b>							
ETPH-SPLP	0.25	NE	< 0.073	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>							
Anthracene	40000	1000000	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NS	NS	NS	NS	NS
Chrysene	1000	84000	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NS	NS	NS	NS	NS
Fluorene	5600	1000000	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NS	NS	NS	NS	NS
<b>SVOCs-SPLP (ug/l)</b>							
Acenaphthene	420	NE	NS	NS	NS	NS	NS
Anthracene	2000	NE	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	NE	NS	NS	NS	NS	NS
Fluoranthene	280	NE	NS	NS	NS	NS	NS
Fluorene	280	NE	NS	NS	NS	NS	NS
Phenanthrene	200	NE	NS	NS	NS	NS	NS
Pyrene	200	NE	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>							
Antimony	NE	27	NS	NS	NS	NS	NS
Arsenic	NE	10	NS	NS	NS	NS	NS
Barium	NE	4700	NS	NS	NS	NS	NS
Beryllium	NE	2	NS	NS	NS	NS	NS
Cadmium	NE	34	NS	NS	NS	NS	NS
Chromium	NE	NE	NS	NS	NS	NS	NS
Copper	NE	2500	NS	NS	NS	NS	NS
Lead	NE	400	NS	NS	NS	NS	NS
Mercury	NE	20	NS	NS	NS	NS	NS
Nickel	NE	1400	NS	NS	NS	NS	NS
Vanadium	NE	470	NS	NS	NS	NS	NS
Zinc	NE	20000	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>							
Aroclor 1260	NE	NE	NS	NS	NS	NS	NS
Total PCB Aroclors	NE	1	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected at concentrations above laboratory reporting limit**  
**Yellow highlighted results exceed GA/GAA PMC.**  
**Blue highlighted results exceed R DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
 <0.01 = Analyte not detected above the specified laboratory reporting limit.  
 R DEC = Residential Direct Exposure Criteria  
 GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas  
 NE = Criterion has not been established for this analyte  
 NS = Not sampled for the specified analyte  
 ND = None detected  
 NA = Not applicable  
 ug/kg = micrograms per kilogram  
 mg/kg = milligrams per kilogram  
 mg/L = milligrams per liter  
 SPLP ETPH and SVOCs were compared to the GWPC

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AR25-SS132 0 - 0.5 ft AR25-SS132 8/3/2011 SB32875	AOC-16B AR26-SS272 0 - 0.25 ft AR26-SS272 (0-3) 8/22/2011 SB33952	AOC-16B AT17-SS133 0 - 0.25 ft AT17-SS133 (0-3) 8/11/2011 SB33302	AOC-16B AT17-SS133 0 - 0.5 ft AT17-SS133 8/3/2011 SB32768	AOC-16B AT18-SS168 0 - 0.25 ft AT18-SS157 (0-3) 8/11/2011 SB33302	AOC-16B AT20-SB394 8.5-9.5 AT20-SB394 (8.5-9.5) 6/26/2012 SB51902	AOC-16B AT20-SB394 11.3-12.3 AT20-SB394 (11.3-12.3) 6/26/2012 SB51902	AOC-16B AT22-SB395 4-5 AT22-SB395 (4-5) 6/26/2012 SB51902	AOC-16B AT22-SB395 9-10 AT22-SB395 (9-10) 6/26/2012 SB51902	AOC-16B AT24-SB396 1 - 2 ft AT24-SB396 (1-2) 6/27/2012 SB51902	AOC-16B AT27-SB612 0 - 0.5 ft AT27-SB612 (0-0.5)-1 4/12/2018 18D0644	AOC-16B AT27-SS134 0 - 0.25 ft AT27-SS134 0-3 8/11/2011 SB33302	AOC-16B AT27-SS134 0 - 0.5 ft AT27-SS134 8/3/2011 SB32875	AOC-16B AU18-SS167 0-0.25 ft AU18-SS167 0-3 8/11/2011 SB33302	AOC-16B AV17-SB250 0.5-1 ft AV17-SB250 (0.5-1) 12/29/2011 SB41766	AOC-16B AV17-SB250 3.5-4.5 ft AV17-SB250 (3.5-4.5) 12/29/2011 SB41766	
<b>ETPH (mg/kg)</b>																				
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOCS (ug/kg)</b>																				
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>																				
Acenaphthylene	8400	1000000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	40000	1000000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	1000	84000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	5600	1000000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>																				
Arsenic	NE	10	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.42
Barium	NE	4700	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	170 J
Beryllium	NE	2	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.512
Cadmium	NE	34	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.463 U
Chromium	NE	3900	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	14.4 J
Copper	NE	2500	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	96.3 J-
Lead	NE	400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	28.6
Mercury	NE	20	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0736 J
Nickel	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12.0 J
Vanadium	NE	470	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	22.2
Zinc	NE	20000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 88.0 UJ
<b>Metals-SPLP (mg/L)</b>																				
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/kg)</b>																				
Cyanide	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>																				
Aroclor 1248	NE	NE	NE	< 0.0219 U	0.175	0.0751	0.167	0.0867	< 0.0216 U	219	< 0.0192 U	< 0.0254 U	< 0.0419 U	NS	< 0.0225 U	< 0.0212 U	0.0805	NS	NS	< 0.0220 U
Aroclor 1254	NE	NE	NE	< 0.0219 U	< 0.0214 U	< 0.0246 U	< 0.0220 U	< 0.0225 U	< 0.0216 U	< 2.61 U	0.0836	0.459	< 0.0419 U	NS	< 0.0225 U	< 0.0212 U	< 0.0233 U	NS	NS	< 0.0220 U
Aroclor 1260	NE	NE	NE	< 0.0219 U	< 0.0214 U	< 0.0246 U	< 0.0220 U	< 0.0225 U	< 0.0216 U	4.31	< 0.0192 U	< 0.0254 U	< 0.0210 U	NS	< 0.0225 U	< 0.0212 U	< 0.0233 U	NS	NS	< 0.0220 U
Total PCB Aroclors	NE	1	10	< 0.0219 U	0.175	0.0751	0.167	0.0867	< 0.0216 U	223.31	0.0836	0.459	< 0.0419 U	NS	< 0.0225 U	< 0.0212 U	0.0805	NS	NS	< 0.0220 U
<b>PCBs-SPLP (mg/L)</b>																				
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AR25-SS132 0 - 0.5 ft AR25-SS132 8/3/2011 SB32875	AOC-16B AR26-SS272 0 - 0.25 ft AR26-SS272 (0-3) 8/22/2011 SB33952	AOC-16B AT17-SS133 0 - 0.25 ft AT17-SS133 (0-3) 8/11/2011 SB33302	AOC-16B AT17-SS133 0 - 0.5 ft AT17-SS133 8/3/2011 SB32768	AOC-16B AT18-SS168 0 - 0.25 ft AT18-SS157 (0-3) 8/11/2011 SB33302	AOC-16B AT20-SB394 8.5-9.5 AT20-SB394 (8.5-9.5) 6/26/2012 SB51902	AOC-16B AT20-SB394 11.3-12.3 AT20-SB394 (11.3-12.3) 6/26/2012 SB51902	AOC-16B AT22-SB395 4-5 AT22-SB395 (4-5) 6/26/2012 SB51902	AOC-16B AT22-SB395 9-10 AT22-SB395 (9-10) 6/26/2012 SB51902	AOC-16B AT24-SB396 1 - 2 ft AT24-SB396 (1-2) 6/27/2012 SB51902	AOC-16B AT27-SB612 0 - 0.5 ft AT27-SB612 (0-0.5)-1 4/12/2018 18D0644	AOC-16B AT27-SS134 0 - 0.25 ft AT27 SS134 0-3 8/11/2011 SB33302	AOC-16B AT27-SS134 0 - 0.5 ft AT27-SS134 8/3/2011 SB32875	AOC-16B AU18-SS167 0-0.25 ft AU18-SS167 0-3 8/11/2011 SB33302	AOC-16B AV17-SB250 0.5-1 ft AV17-SB250 (0.5-1) 12/29/2011 SB41766	AOC-16B AV17-SB250 3.5-4.5 ft AV17-SB250 (3.5-4.5) 12/29/2011 SB41766	
<b>Pesticides (ug/kg)</b>																				
4,4-DDE (p,p)	NE	NE	NE	NS	<b>6.23</b>	<b>7.51</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>7.59</b>	NS
4,4-DDT (p,p)	NE	NE	NA	NS	< 9.07 U	< 9.90 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 9.31 U	NS
alpha-Chlordane	NE	NE	NE	NS	<b>9.97 J</b>	< 6.19 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>6.51 J</b>	NS
Chlordane	66	490	NA	NS	<b>38.7</b>	< 24.7 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>43</b>	NS
gamma-Chlordane	NE	NE	NE	NS	<b>9.04</b>	< 6.19 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>6.24</b>	NS
Total DDx	3	1800	NA	NS	<b>6.23</b>	<b>7.51</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>7.59</b>	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected above laboratory reporting limit.**  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed RES DEC.**  
**Green highlighted results exceed I/C DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected above the specified laboratory reporting limit.  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas  
I/C DEC = Industrial/Commercial Direct Exposure Criteria  
The I/C DEC for PCBs applies to inaccessible soil.  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AV17-SB250 5-7 ft AV17-SB250 (5-7) 12/29/2011 SB41766	AOC-16B AV17-SB250 10-11 ft AV17-SB250 (10-11) 12/29/2011 SB41766	AOC-16B AV17-SB250 13-14 ft AV17-SB250 (13-14) 12/29/2011 SB41766	AOC-16B AV17-SS135 0-0.25 ft AV17-SS135 0-3 8/11/2011 SS33302	AOC-16B AV17-SS135 0-0.5 ft AV17-SS135 8/4/2011 SS32875	AOC-16B AV17-SS138 0-0.5 ft AV17-SS138 8/3/2011 SS32768	AOC-16B AV18-SS166 0-0.25 ft AV18-SS166 0-3 8/11/2011 SB33302	AOC-16B AV18-SS273 0-0.25 ft AV18-SS273 (0-3") 8/22/2011 SB33952	AOC-16B AV20-SB393 4.5-5 ft AV20-SB393 (4.5-5) 6/26/2012 SB51819	AOC-16B AV20-SB393 11-12 ft AV20-SB393 (11-12) 6/26/2012 SB51819	AOC-16B AV22-SB392 7-8 ft AV22-SB392 (7-8) 6/26/2012 SB51819	AOC-16B AV22-SB392 8-9 ft AV22-SB392 (8-9) 6/26/2012 SB51819	AOC-16B AV27-SS174 0 - 0.25 ft AV27 SS174 0-3 8/11/2011 SB33302	AOC-16B AU29-SS170 0 - 3 ft AU29 SS170 0-3 8/11/2011 SB33302	AOC-16B AV28-SB232 0 - 2 ft AV28-SB232(0-2)-1 12/27/2011 SB41683	AOC-16B AV28-SB232 5 - 6 ft AV28-SB232(5-6)-1 12/27/2011 SB41683	
<b>ETPH (mg/kg)</b>																				
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NA	119	< 31.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	221	NS
<b>VOCS (ug/kg)</b>																				
2-Butanone (MEK)	8000	500000	1000000	82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 60.3 U	NS
Acetone	14000	500000	1000000	303 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 60.3 UJ	NS
Naphthalene	5600	1000000	2500000	10.0 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 6.0 U	NS
<b>SVOCs (ug/kg)</b>																				
Acenaphthylene	8400	1000000	NA	< 399 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Anthracene	40000	1000000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Benzo(a)anthracene	1000	1000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Benzo(a)pyrene	1000	1000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	756	NS
Benzo(b)fluoranthene	1000	1000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Benzo(g,h,i)perylene	1000	8400	NA	< 399 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Benzo(k)fluoranthene	1000	8400	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	828	NS
Chrysene	1000	84000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Dibenzo(a,h)anthracene	1000	1000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Fluoranthene	5600	1000000	NA	< 399 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1030	NS
Fluorene	5600	1000000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Phenanthrene	4000	1000000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 738 U	NS
Pyrene	4000	1000000	NA	< 399 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1120	NS
<b>Metals (mg/kg)</b>																				
Arsenic	NE	10	NA	6.52	NS	< 1.52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.88	4.49
Barium	NE	4700	NA	442 J	NS	48.7 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	148	315
Beryllium	NE	2	NA	0.621	NS	< 0.507 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.707	0.976
Cadmium	NE	34	NA	0.94	NS	< 0.507 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.11	1.22
Chromium	NE	3900	NA	26.1 J	NS	11.0 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	31.4	56.5
Copper	NE	2500	NA	270 J	NS	< 26.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24.3	20.3
Lead	NE	400	NA	48.3	NS	3.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	53.9	28.9
Mercury	NE	20	NA	0.179 J	NS	0.259 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0692	0.0676
Nickel	NE	1400	NA	19.0 J	NS	14.4 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	13.6	18.6
Vanadium	NE	470	NA	32.4	NS	14.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	33.9	42.7
Zinc	NE	20000	NA	242 J	NS	< 96.4 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	98.8	91.2
<b>Metals-SPLP (mg/L)</b>																				
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/kg)</b>																				
Cyanide	NE	1400	NA	< 1.19 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 1.06 U	NS
<b>PCBs (mg/kg)</b>																				
Aroclor 1248	NE	NE	NE	< 0.024 U	< 0.0225 U	< 0.0215 U	< 0.0251 U	0.117	0.378	0.122	0.12	< 0.0232 U	51.7	< 0.0416 U	< 0.0230 U	< 0.0224 U	< 0.0208 U	< 0.0219 U	0.115	
Aroclor 1254	NE	NE	NE	< 0.024 U	< 0.0225 U	< 0.0215 U	< 0.0251 U	< 0.0225 U	< 0.0215 U	< 0.0226 U	< 0.0231 U	< 0.0232 U	< 2.43 U	< 0.0416 U	< 0.0230 U	< 0.0224 U	< 0.0208 U	< 0.0219 U	< 0.0222 U	
Aroclor 1260	NE	NE	NE	< 0.024 U	< 0.0225 U	< 0.0215 U	< 0.0251 U	< 0.0225 U	< 0.0215 U	< 0.0226 U	< 0.0231 U	< 0.0232 U	< 2.43 U	< 0.0208 U	< 0.0230 U	< 0.0224 U	< 0.0208 U	< 0.0219 U	< 0.0222 U	
Total PCB Aroclors	NE	1	10	< 0.024 U	< 0.0225 U	< 0.0215 U	< 0.0251 U	0.117	0.378	0.122	0.12	< 0.0232 U	51.7	< 0.0416 U	< 0.0230 U	< 0.0224 U	< 0.0208 U	< 0.0219 U	0.115	
<b>PCBs-SPLP (mg/L)</b>																				
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AV17-SB250 5-7 ft AV17-SB250 (5-7) 12/29/2011 SB41766	AOC-16B AV17-SB250 10-11 ft AV17-SB250 (10-11) 12/29/2011 SB41766	AOC-16B AV17-SB250 13-14 ft AV17-SB250 (13-14) 12/29/2011 SB41766	AOC-16B AV17-SS135 0-0.25 ft AV17-SS135 0-3 8/11/2011 SS33302	AOC-16B AV17-SS135 0-0.5 ft AV17-SS135 8/4/2011 SS32875	AOC-16B AV17-SS138 0-0.5 ft AV17-SS138 8/3/2011 SS32768	AOC-16B AV18-SS166 0-0.25 ft AV18-SS166 0-3 8/11/2011 SB33302	AOC-16B AV18-SS273 0-0.25 ft AV18-SS273 (0-3") 8/22/2011 SB33952	AOC-16B AV20-SB393 4.5-5 ft AV20-SB393 (4.5-5) 6/26/2012 SB51819	AOC-16B AV20-SB393 11-12 ft AV20-SB393 (11-12) 6/26/2012 SB51819	AOC-16B AV22-SB392 7-8 ft AV22-SB392 (7-8) 6/26/2012 SB51819	AOC-16B AV22-SB392 8-9 ft AV22-SB392 (8-9) 6/26/2012 SB51819	AOC-16B AV27-SS174 0 - 0.25 ft AV27 SS174 0-3 8/11/2011 SB33302	AOC-16B AU29-SS170 0 - 3 ft AU29 SS170 0-3 8/11/2011 SB33302	AOC-16B AV28-SB232 0 - 2 ft AV28-SB232(0-2)-1 12/27/2011 SB41683	AOC-16B AV28-SB232 5 - 6 ft AV28-SB232(5-6)-1 12/27/2011 SB41683	
<b>Pesticides (ug/kg)</b>																				
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	14.9	NS	NS	NS	NS	NS	NS	< 5.54 U	NS	NS	NS
4,4-DDT (p,p)	NE	NE	NA	NS	NS	NS	NS	NS	NS	22.8	NS	NS	NS	NS	NS	NS	9.41 J	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	16.3 J	NS	NS	NS	NS	NS	NS	12.2 J	NS	NS	NS
Chlordane	66	490	NA	NS	NS	NS	NS	NS	NS	66.6	NS	NS	NS	NS	NS	NS	75.6	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	8.71 J	NS	NS	NS	NS	NS	NS	9.99	NS	NS	NS
Total DDx	3	1800	NA	NS	NS	NS	NS	NS	NS	37.7	NS	NS	NS	NS	NS	NS	9.41	NS	NS	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**  
 This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected above laboratory reporting limit.**  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed RES DEC.**  
**Green highlighted results exceed I/C DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
 <0.01 = Analyte not detected above the specified laboratory reporting limit.  
 R DEC = Residential Direct Exposure Criteria  
 GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas  
 I/C DEC = Industrial/Commercial Direct Exposure Criteria  
 The I/C DEC for PCBs applies to inaccessible soil.  
 NE = Criterion has not been established for this analyte  
 NS = Not sampled for the specified analyte  
 ND = None detected  
 NA = Not applicable  
 ug/kg = micrograms per kilogram  
 mg/kg = milligrams per kilogram  
 mg/L = milligrams per liter  
 Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AV28-SB613 0 - 0.5 ft AV28-SB613 (0-0.5)-1 4/12/2018 18D0644	AOC-16B AV28-SS136 0 - 0.25 ft AV28 SS136 0-3 8/11/2011 SB33302	AOC-16B AV28-SS136 0 - 0.5 ft AV28-SS136 8/3/2011 SB32875	AOC-16B AV28-SS136 0 - 0.5 ft DUPLICATE-1 9/29/2011 SB36432	AOC-16B AV28-SS136 0 - 0.5 ft DUPLICATE-1-080311 8/3/2011 SB32768	AOC-16B AV28-SS172 0 - 0.25 ft AV28 SS172 0-3 8/11/2011 SB33302	AOC-16B AV28-SS173 0 - 0.25 ft AV28 SS173 0-3 8/11/2011 SB33302	AOC-16B AV29-SS169 0 - 0.25 ft AV29 SS169 0-3 8/11/2011 SB33302	AOC-16B AV30-SS233 0 - 0.25 ft AV30-SS233 0-3 8/11/2011 SB33374	AOC-16B AW19-SS165 0-0.25 ft AW19-SS165 0-3 8/11/2011 SB33302	AOC-16B AW19-SS274 0-0.25 ft AW19-SS274 0-3 8/22/2011 SB33952	AOC-16B AX19-SS137 0-0.25 ft AX19-SS137 0-3 8/11/2011 SB33302	AOC-16B AX19-SS137 0-0.5 ft AX19-SS137 8/3/2011 SB32768	AOC-16B AX31-SB278 0 - 1 ft AX31-SB278 (0-1) 12/30/2011 SB41831	AOC-16B AX31-SB278 1 - 2 ft AX31-SB278 (1-2) 12/30/2011 SB41831	AOC-16B AX31-SS275 0 - 0.25 ft AX31-SS275 (0-3) 8/22/2011 SB33952	
<b>ETPH (mg/kg)</b>																				
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NA	NS	NS	NS	NS	NS	NS	146	NS	NS	NS	NS	NS	NS	NS	NS	< 13.8 U	NS
<b>VOCS (ug/kg)</b>																				
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>																				
Acenaphthylene	8400	1000000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Anthracene	40000	1000000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Benzo(a)anthracene	1000	1000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Benzo(a)pyrene	1000	1000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Benzo(b)fluoranthene	1000	1000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Benzo(g,h,i)perylene	1000	8400	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Benzo(k)fluoranthene	1000	8400	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Chrysene	1000	84000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 UJ	NS
Dibenzo(a,h)anthracene	1000	1000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Fluoranthene	5600	1000000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Fluorene	5600	1000000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Phenanthrene	4000	1000000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
Pyrene	4000	1000000	NA	NS	NS	NS	NS	NS	NS	< 954 U	NS	NS	NS	NS	NS	NS	NS	NS	< 342 U	NS
<b>Metals (mg/kg)</b>																				
Arsenic	NE	10	NA	NS	NS	NS	NS	NS	6.11	NS	NS	NS	3.09	NS	NS	NS	NS	NS	< 1.52 U	4.76
Barium	NE	4700	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	803	NS
Beryllium	NE	2	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.33	NS
Cadmium	NE	34	NA	NS	NS	NS	NS	NS	0.860	NS	NS	< 0.547 U	NS	NS	NS	NS	NS	NS	< 0.506 U	NS
Chromium	NE	3900	NA	NS	NS	NS	NS	NS	26.2	NS	NS	52.8	NS	NS	NS	NS	NS	NS	84.3	NS
Copper	NE	2500	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	15.7	NS
Lead	NE	400	NA	NS	NS	NS	NS	NS	55.7	NS	NS	36.8	NS	NS	NS	NS	NS	NS	4.08	NS
Mercury	NE	20	NA	NS	NS	NS	NS	NS	0.263	NS	NS	0.0486	NS	NS	NS	NS	NS	NS	< 0.0314 U	NS
Nickel	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	23.7	NS
Vanadium	NE	470	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	66.8	NS
Zinc	NE	20000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	51.5	NS
<b>Metals-SPLP (mg/L)</b>																				
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/kg)</b>																				
Cyanide	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>																				
Aroclor 1248	NE	NE	NE	NS	< 0.0206 U	< 0.0203 U	< 0.0241 U	0.173	0.208	< 0.0234 U	< 0.0237 U	< 0.0231 U	0.707	0.139 J	0.117	0.128	NS	NS	< 0.0202 U	< 0.0239 U
Aroclor 1254	NE	NE	NE	NS	< 0.0206 U	< 0.0203 U	< 0.0241 U	< 0.0250 U	< 0.0225 U	< 0.0234 U	< 0.0237 U	< 0.0231 U	< 0.0242 U	< 0.0241 U	< 0.0240 U	< 0.0213 U	NS	NS	< 0.0202 U	< 0.0239 U
Aroclor 1260	NE	NE	NE	NS	< 0.0206 U	< 0.0203 U	< 0.0241 U	< 0.0250 U	< 0.0225 U	< 0.0234 U	< 0.0237 U	< 0.0231 U	< 0.0242 U	< 0.0241 U	< 0.0240 U	< 0.0213 U	NS	NS	< 0.0202 U	< 0.0239 U
Total PCB Aroclors	NE	1	10	NS	< 0.0206 U	< 0.0203 U	< 0.0241 U	0.173	0.208	< 0.0234 U	< 0.0237 U	< 0.0231 U	0.707	0.139 J	0.117	0.128	NS	NS	< 0.0202 U	< 0.0239 U
<b>PCBs-SPLP (mg/L)</b>																				
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AV28-SB613 0 - 0.5 ft AV28-SB613 (0-0.5)-1 4/12/2018 18D0644	AOC-16B AV28-SS136 0 - 0.25 ft AV28 SS136 0-3 8/11/2011 SB33302	AOC-16B AV28-SS136 0 - 0.5 ft AV28-SS136 8/3/2011 SB32875	AOC-16B AV28-SS136 0 - 0.5 ft DUPLICATE-1 9/29/2011 SB36432	AOC-16B AV28-SS136 0 - 0.5 ft DUPLICATE-1-080311 8/3/2011 SB32768	AOC-16B AV28-SS172 0 - 0.25 ft AV28 SS172 0-3 8/11/2011 SB33302	AOC-16B AV28-SS173 0 - 0.25 ft AV28 SS173 0-3 8/11/2011 SB33302	AOC-16B AV29-SS169 0 - 0.25 ft AV29 SS169 0-3 8/11/2011 SB33302	AOC-16B AV30-SS233 0 - 0.25 ft AV30-SS233 0-3 8/11/2011 SB33374	AOC-16B AW19-SS165 0-0.25 ft AW19-SS165 0-3 8/11/2011 SB33302	AOC-16B AW19-SS274 0-0.25 ft AW19-SS274 0-3 8/22/2011 SB33952	AOC-16B AX19-SS137 0-0.25 ft AX19-SS137 0-3 8/11/2011 SB33302	AOC-16B AX19-SS137 0-0.5 ft AX19-SS137 8/3/2011 SB32768	AOC-16B AX31-SB278 0 - 1 ft AX31-SB278 (0-1) 12/30/2011 SB41831	AOC-16B AX31-SB278 1 - 2 ft AX31-SB278 (1-2) 12/30/2011 SB41831	AOC-16B AX31-SS275 0 - 0.25 ft AX31-SS275 (0-3) 8/22/2011 SB33952	
<b>Pesticides (ug/kg)</b>																				
4,4-DDE (p,p)	NE	NE	NE	NS	< 5.38 U	NS	NS	NS	NS	NS	NS	<b>8.62</b>	NS	NS	NS	NS	< 5.54 U	NS	NS	NS
4,4-DDT (p,p)	NE	NE	NA	NS	<b>15.4</b>	NS	NS	NS	NS	NS	NS	<b>11.8</b>	NS	NS	NS	NS	< 8.87 U	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	<b>21.1</b>	NS	NS	NS	NS	NS	NS	< 4.51 U	NS	NS	NS	NS	< 5.54 U	NS	NS	NS
Chlordane	66	490	NA	NS	<b>81.1</b>	NS	NS	NS	NS	NS	NS	< 18.1 U	NS	NS	NS	NS	< 22.2 U	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	<b>14.1</b>	NS	NS	NS	NS	NS	NS	< 4.51 U	NS	NS	NS	NS	< 5.54 U	NS	NS	NS
Total DDx	3	1800	NA	NS	<b>15.4</b>	NS	NS	NS	NS	NS	NS	<b>20.42</b>	NS	NS	NS	NS	< 8.87	NS	NS	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NE	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected above laboratory reporting limit.**  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed RES DEC.**  
**Green highlighted results exceed I/C DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected above the specified laboratory reporting limit.  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas  
I/C DEC = Industrial/Commercial Direct Exposure Criteria  
The I/C DEC for PCBs applies to inaccessible soil.  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AY20-SS164 0 - 0.25 ft AY20-SS164 0-3 8/11/2011 SB33302	AOC-16B AZ20-SS138 0-0.25 ft AZ20-SS138 0-3 8/11/2018 SB33302	AOC-16B AZ20-SB251 2.5 - 3.5 ft AZ20-SB251(2.5-3.5)-1 12/29/2011 SB41766	AOC-16B AZ20-SB251 7 - 8 ft AZ20-SB251(7-8)-1 12/29/2011 SB41766	AOC-16B AZ26-391 1-2 ft AZ26-391 (1-2) 6/26/2012 SB51819	AOC-16B AZ26-391 2-3 ft AZ26-391 (2-3) 6/26/2012 SB51819	AOC-16B AZ28-SB387 1-2 ft AZ28-SB387 (1-2) 6/26/2012 SB51819	AOC-16B AZ31-SS231 0-0.25 ft AZ31-SS231 0-3 8/11/2011 SB33374	AOC-16B BA31-SS280 0-0.25 ft BA31-SS280 (0-3") 8/11/2011 SB33374	AOC-16B BB20-SS139 0 - 0.25 ft BB20-SS139 0-3 8/11/2011 SB33302	AOC-16B BB20-SS139A 0 - 1 ft BB20-SS139A(0-1) 6/25/2013 SB72106	AOC-16B BB21-SS162 0 - 0.25 ft BB21-SS162 0-3 8/11/2011 SB33302	AOC-16B BB24-SB390 1 - 2 ft BB24-SB390 (1-2) 6/26/2012 SB51819	AOC-16B BB24-SB390 7 - 8 ft BB24-SB390 (7-8) 6/26/2012 SB51819	AOC-16B BB26-SB389 1 - 2 ft BB26-SB389 (1-2) 6/26/2012 SB51819	AOC-16B BB26-SB389 5 - 6 ft BB26-SB389 (5-6) 6/26/2012 SB51819	
<b>ETPH (mg/kg)</b>																				
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NA	128	NS	NS	< 14.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOCs (ug/kg)</b>																				
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>																				
Acenaphthylene	8400	1000000	NA	NS	NS	NS	< 363 UJ	NS	NS	NS	NS	NS	< 930 U	140	NS	NS	NS	NS	NS	NS
Anthracene	40000	1000000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	330	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	590	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	510	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	680	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	310	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	240	NS	NS	NS	NS	NS	NS
Chrysene	1000	84000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	560	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	81	NS	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	1300	NS	NS	NS	NS	NS	NS
Fluorene	5600	1000000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	100	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	390	NS	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	880	NS	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NA	NS	NS	NS	< 363 U	NS	NS	NS	NS	NS	< 930 U	1100	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>																				
Arsenic	NE	10	NA	NS	4.44	4.49	2.72	NS	NS	NS	NS	9.9	2.83	NS	NS	NS	NS	NS	NS	NS
Barium	NE	4700	NA	NS	140	115 J	53.5 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	NA	NS	NS	0.669	< 0.551 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	NA	NS	0.724	< 0.586 U	< 0.551 U	NS	NS	NS	NS	< 0.505 U	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	NE	3900	NA	NS	34.1	14.4 J	14.6 J	NS	NS	NS	NS	31.8	NS	NS	NS	NS	NS	NS	NS	NS
Copper	NE	2500	NA	NS	NS	< 30.5 UJ	< 28.6 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	NE	400	NA	NS	52.9	48.3	17.3	NS	NS	NS	NS	49.3	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	NE	20	NA	NS	0.0779	< 0.0335 UJ	< 0.0330 UJ	NS	NS	NS	NS	0.0754	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	NE	1400	NA	NS	NS	17.7 J	12.7 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NE	470	NA	NS	NS	31.7	19.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	NE	20000	NA	NS	NS	< 111 UJ	< 105 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>																				
Arsenic	0.05	NE	NE	NS	NS	NS	0.0056 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	0.176 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	0.0285 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	0.0476 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	0.0299 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	0.0404 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/kg)</b>																				
Cyanide	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>																				
Aroclor 1248	NE	NE	NE	< 0.0227 U	0.0912	< 0.487 U	0.161	0.162	< 0.0208 U	1.75	< 0.0232 U	NS	0.0880	NS	0.244	0.117	< 0.0282 U	0.268	< 0.0475 U	
Aroclor 1254	NE	NE	NE	< 0.0227 U	< 0.0222 U	< 0.487 U	< 0.0208 U	< 0.0205 U	< 0.0208 U	0.0289	< 0.0232 U	NS	< 0.0238 U	NS	< 0.0240 U	0.128	< 0.0282 U	< 0.0207 U	< 0.0237 U	
Aroclor 1260	NE	NE	NE	< 0.0227 U	< 0.0222 U	< 0.487 U	0.0223	< 0.0205 U	< 0.0208 U	< 0.0214 U	< 0.0232 U	NS	< 0.0238 U	NS	< 0.0240 U	< 0.0202 U	< 0.0282 U	< 0.0207 U	< 0.0237 U	
Total PCB Aroclors	NE	1	10	< 0.0227 U	0.0912	< 0.487 U	0.183	0.162	< 0.0208 U	1.7789	< 0.0232 U	NS	0.0880	NS	0.244	0.245	0.131	0.268	< 0.0475 U	
<b>PCBs-SPLP (mg/L)</b>																				
Aroclor 1248	NE	NE	NE	NS	NS	NS	< 0.000200 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	< 0.000200 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B AY20-SS164 0 - 0.25 ft AY20 SS164 0-3 8/11/2011 SB33302	AOC-16B AZ20-SS138 0-0.25 ft AZ20-SS138 0-3 8/11/2018 SB33302	AOC-16B AZ20-SB251 2.5 - 3.5 ft AZ20-SB251(2.5-3.5)-1 12/29/2011 SB41766	AOC-16B AZ20-SB251 7 - 8 ft AZ20-SB251(7-8)-1 12/29/2011 SB41766	AOC-16B AZ26-391 1-2 ft AZ26-391 (1-2) 6/26/2012 SB51819	AOC-16B AZ26-391 2-3 ft AZ26-391 (2-3) 6/26/2012 SB51819	AOC-16B AZ28-SB387 1-2 ft AZ28-SB387 (1-2) 6/26/2012 SB51819	AOC-16B AZ31-SS231 0-0.25 ft AZ31-SS231 0-3 8/11/2011 SB33374	AOC-16B BA31-SS280 0-0.25 ft BA31-SS280 (0-3") 8/11/2011 SB33374	AOC-16B BB20-SS139 0 - 0.25 ft BB20 SS139 0-3 8/11/2011 SB33302	AOC-16B BB20-SS139A 0 - 1 ft BB20-SS139A(0-1) 6/25/2013 SB72106	AOC-16B BB21-SS162 0 - 0.25 ft BB21 SS162 0-3 8/11/2011 SB33302	AOC-16B BB24-SB390 1 - 2 ft BB24-SB390 (1-2) 6/26/2012 SB51819	AOC-16B BB24-SB390 7 - 8 ft BB24-SB390 (7-8) 6/26/2012 SB51819	AOC-16B BB26-SB389 1 - 2 ft BB26-SB389 (1-2) 6/26/2012 SB51819	AOC-16B BB26-SB389 5 - 6 ft BB26-SB389 (5-6) 6/26/2012 SB51819	
<b>Pesticides (ug/kg)</b>																				
4,4-DDE (p,p)	NE	NE	NE	10.9	8.9	NS	NS	NS	NS	NS	7.19	NS	NS	NS	9.46	NS	NS	NS	NS	NS
4,4-DDT (p,p)	NE	NE	NA	< 9.87 U	< 9.05 U	NS	NS	NS	NS	NS	16.3	NS	NS	NS	< 9.71 U	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	6.91 J	7.24	NS	NS	NS	NS	NS	< 5.37 U	NS	NS	NS	12.6 J	NS	NS	NS	NS	NS
Chlordane	66	490	NA	52.3	58.8	NS	NS	NS	NS	NS	< 21.5 U	NS	NS	NS	77.2	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	11.5	< 5.66 U	NS	NS	NS	NS	NS	< 5.37 U	NS	NS	NS	13.8	NS	NS	NS	NS	NS
Total DDx	3	1800	NA	10.9	8.9	NS	NS	NS	NS	NS	23.49	NS	NS	NS	9.46	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected above laboratory reporting limit.**  
**Yellow highlighted results exceed GA PMC.**  
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The I/C DEC for PCBs applies to inaccessible soil.  
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ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B BB27-SB622 1 - 2 ft BB27-SB622 (1-2) 11/29/2018 18K1266	AOC-16B BB28-SB388 1 - 2 ft BB28-SB388 (1-2) 6/26/2012 SB51819	AOC-16B BB28-SB388 7 - 8 ft BB28-SB388 (7-8) 6/26/2012 SB51819	AOC-16B BB31-SS230 0 - 0.25 ft BB31-SS230 0-3 8/11/2011 SB33374	AOC-16B BC22-SS161 0 - 0.25 ft BC22 SS161 0-3 8/11/2011 SB33302	AOC-16B BC22-SS161A 0 - 1 ft BC22-SS161A(0-1) 6/25/2013 SB72106	AOC-16B BC23-SS160 0 - 0.25 ft BC23 SS160 0-3 8/11/2011 SB33302	AOC-16B BC24-SS159 0 - 0.25 ft BC24 SS159 0-3 8/11/2011 SB33302	AOC-16B BC26-SS158 0 - 0.25 ft BC26 SS158 0-3 8/11/2011 SB33302	AOC-16B BC27-SB614 1 - 2 ft BC27-SB614 (1-2) 6/27/2018 18F1381	AOC-16B BC27-SB615 1 - 2 ft BC27-SB615 (1-2) 6/27/2018 18F1381	AOC-16B BC27-SB619 1 - 2 ft BC27-SB619 (1-2) 11/29/2018 18K1266	AOC-16B BC27-SB620 0 - 1 ft BC27-SB620 (0-1) 11/29/2018 18K1266	AOC-16B BC27-SB620 2-4 ft BC27-SB620 (2-4) 11/29/2018 18K1266	AOC-16B BC27-SS155 0 - 0.25 ft BC27 SS155 0-3 8/11/2011 SB33302	AOC-16B BC27-SS157 0 - 0.25 ft BC27 SS157 0-3 8/11/2011 SB33302	
<b>ETPH (mg/kg)</b>																				
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NA	NS	NS	NS	230	NS	NS	NS	166	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOCS (ug/kg)</b>																				
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>																				
Acenaphthylene	8400	1000000	NA	NS	NS	NS	< 539 U	< 985 U	< 73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	40000	1000000	NA	NS	NS	NS	< 539 U	< 985 U	< 73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NA	NS	NS	NS	< 539 U	< 985 U	93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NA	NS	NS	NS	< 539 U	< 985 U	90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NA	NS	NS	NS	< 539 U	< 985 U	120	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	NA	NS	NS	NS	< 539 U	< 985 U	79	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NA	NS	NS	NS	< 539 U	< 985 U	< 73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	1000	84000	NA	NS	NS	NS	< 539 U	< 985 U	87	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	NA	NS	NS	NS	< 539 U	< 985 U	< 73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NA	NS	NS	NS	< 539 U	< 985 U	160	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	5600	1000000	NA	NS	NS	NS	< 539 U	< 985 U	< 73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NA	NS	NS	NS	< 539 U	< 985 U	79	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NA	NS	NS	NS	< 539 U	< 985 U	< 73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NA	NS	NS	NS	< 539 U	< 985 U	140	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>																				
Arsenic	NE	10	NA	NS	NS	NS	NS	NS	NS	NS	4.60	NS	NS	NS	NS	NS	NS	NS	NS	3.57
Barium	NE	4700	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	NA	NS	NS	NS	NS	NS	NS	NS	0.687	NS	NS	NS	NS	NS	NS	NS	NS	0.590
Chromium	NE	3900	NA	NS	NS	NS	NS	NS	NS	NS	28.8	NS	NS	NS	NS	NS	NS	NS	NS	34.8
Copper	NE	2500	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	NE	400	NA	NS	NS	NS	NS	NS	NS	NS	62.4	NS	NS	NS	NS	NS	NS	NS	NS	15.2
Mercury	NE	20	NA	NS	NS	NS	NS	NS	NS	NS	0.102	NS	NS	NS	NS	NS	NS	NS	NS	< 0.0350 U
Nickel	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NE	470	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	NE	20000	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>																				
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/kg)</b>																				
Cyanide	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>																				
Aroclor 1248	NE	NE	NE	0.29	0.464	< 0.0215 U	0.0675	0.16	NS	0.0893	< 0.0221 U	< 0.0219 U	0.28	0.92	< 0.082	< 0.092	< 0.097	< 0.0221 U	< 0.0224 U	
Aroclor 1254	NE	NE	NE	0.19	< 0.0218 U	< 0.0215 U	< 0.0208 U	< 0.0234 U	NS	< 0.0248 U	< 0.0221 U	< 0.0219 U	0.20	0.44	< 0.082	0.11	< 0.097	< 0.0221 U	< 0.0224 U	
Aroclor 1260	NE	NE	NE	< 0.089	< 0.0218 U	< 0.0215 U	< 0.0208 U	< 0.0234 U	NS	< 0.0248 U	< 0.0221 U	< 0.0219 U	< 0.085	< 0.087	< 0.082	< 0.092	< 0.097	< 0.0221 U	< 0.0224 U	
Total PCB Aroclors	NE	1	10	0.48	0.464	< 0.0215 U	0.0675	0.16	NS	0.0893	< 0.0221 U	< 0.0219 U	0.48	1.36	< 0.082	0.11	< 0.097	< 0.0221 U	< 0.0224 U	
<b>PCBs-SPLP (mg/L)</b>																				
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B BB27-SB622 1 - 2 ft BB27-SB622 (1-2) 11/29/2018 18K1266	AOC-16B BB28-SB388 1 - 2 ft BB28-SB388 (1-2) 6/26/2012 SB51819	AOC-16B BB28-SB388 7 - 8 ft BB28-SB388 (7-8) 6/26/2012 SB51819	AOC-16B BB31-SS230 0 - 0.25 ft BB31-SS230 0-3 8/11/2011 SB33374	AOC-16B BC22-SS161 0 - 0.25 ft BC22 SS161 0-3 8/11/2011 SB33302	AOC-16B BC22-SS161A 0 - 1 ft BC22-SS161A(0-1) 6/25/2013 SB72106	AOC-16B BC23-SS160 0 - 0.25 ft BC23 SS160 0-3 8/11/2011 SB33302	AOC-16B BC24-SS159 0 - 0.25 ft BC24 SS159 0-3 8/11/2011 SB33302	AOC-16B BC26-SS158 0 - 0.25 ft BC26 SS158 0-3 8/11/2011 SB33302	AOC-16B BC27-SB614 1 - 2 ft BC27-SB614 (1-2) 6/27/2018 18F1381	AOC-16B BC27-SB615 1 - 2 ft BC27-SB615 (1-2) 6/27/2018 18F1381	AOC-16B BC27-SB619 1 - 2 ft BC27-SB619 (1-2) 11/29/2018 18K1266	AOC-16B BC27-SB620 0 - 1 ft BC27-SB620 (0-1) 11/29/2018 18K1266	AOC-16B BC27-SB620 2-4 ft BC27-SB620 (2-4) 11/29/2018 18K1266	AOC-16B BC27-SS155 0 - 0.25 ft BC27 SS155 0-3 8/11/2011 SB33302	AOC-16B BC27-SS157 0 - 0.25 ft BC27 SS157 0-3 8/11/2011 SB33302	
<b>Pesticides (ug/kg)</b>																				
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	11.6	NS	< 5.84 U	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	NE	NE	NA	NS	NS	NS	NS	NS	NS	11.2	NS	< 9.34 U	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	16.5 J	NS	6.25 J	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	66	490	NA	NS	NS	NS	NS	NS	NS	94.8	NS	42.7	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	14.7	NS	7.92	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	3	1800	NA	NS	NS	NS	NS	NS	NS	22.8	NS	< 9.34	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Analyte detected above laboratory reporting limit.**  
**Yellow highlighted results exceed GA PMC.**  
**Blue highlighted results exceed RES DEC.**  
**Green highlighted results exceed I/C DEC.**  
*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.  
<0.01 = Analyte not detected above the specified laboratory reporting limit.  
R DEC = Residential Direct Exposure Criteria  
GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas  
I/C DEC = Industrial/Commercial Direct Exposure Criteria  
The I/C DEC for PCBs applies to inaccessible soil.  
NE = Criterion has not been established for this analyte  
NS = Not sampled for the specified analyte  
ND = None detected  
NA = Not applicable  
ug/kg = micrograms per kilogram  
mg/kg = milligrams per kilogram  
mg/L = milligrams per liter  
Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B BC28-SS153 0 - 0.25 ft BC28 SS153 0-3 8/11/2011 SB33302	AOC-16B BC28-SB621 1 - 2 ft BC28-SB121 (1-2) 11/29/2018 18K1266	AOC-16B BC29-SS150 0 - 0.25 ft BC29 SS150 0-3 8/11/2011 SB33302	AOC-16B BD22-SB253 0 - 1 ft BD22-SB253 (0-1) 12/30/2011 SB41831	AOC-16B BD22-SB253 1.5 - 2 ft BD22-SB253 (1.5-2) 12/30/2011 SB41831	AOC-16B BD23-SS140 0 - 0.25 ft BD23 SS140 0-3 8/11/2011	AOC-16B BD23-SS140 0 - 0.5 ft BD23-SS140 8/4/2011	AOC-16B BD27-SB252 0 - 1 ft BD27-SB252 (0-1) 12/30/2011 SB41831	AOC-16B BD27-SB252 1.5 - 2 ft BD27-SB252 (1.5-2) 12/30/2011 SB41831	AOC-16B BD27-SB616 2 - 4 ft BD27-SB616 (2-4) 6/27/2018 18F1381	AOC-16B BD27-SB617 1 - 2 ft BD27-SB617 (1-2) 6/27/2018 18F1381	AOC-16B BD27-SS154 0 - 0.25 ft BD27 SS154 0-3 8/11/2011 SB33302	AOC-16B BD27-SS156 0 - 0.25 ft BD27 SS156 0-3 8/11/2011 SB33302	AOC-16B BD28-SB618 1 - 2 ft BD28-SB618 (1-2) 6/27/2018 18F1381	AOC-16B BD28-SS149 0 - 0.25 ft BD28 SS149 0-3 8/11/2011 SB33302	AOC-16B BD28-SS152 0 - 0.25 ft BD28 SS152 0-3 8/11/2011 SB33302	
<b>ETPH (mg/kg)</b>																				
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NA	NS	NS	NS	NS	80.6	NS	NS	NS	120	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOCs (ug/kg)</b>																				
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>																				
Acenaphthylene	8400	1000000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	< 367 U	NS	NS	NS	NS	NS	NS	NS	< 1970 U
Anthracene	40000	1000000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	< 367 U	NS	NS	NS	NS	NS	NS	NS	< 1970 U
Benzo(a)anthracene	1000	1000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	579	NS	NS	NS	NS	NS	NS	NS	< 1970 U
Benzo(a)pyrene	1000	1000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	535	NS	NS	NS	NS	NS	NS	NS	< 1970 UJ
Benzo(b)fluoranthene	1000	1000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	616	NS	NS	NS	NS	NS	NS	NS	< 1970 UJ
Benzo(g,h,i)perylene	1000	8400	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	< 367 U	NS	NS	NS	NS	NS	NS	NS	< 1970 UJ
Benzo(k)fluoranthene	1000	8400	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	490	NS	NS	NS	NS	NS	NS	NS	< 1970 UJ
Chrysene	1000	84000	NA	NS	NS	NS	NS	< 385 UJ	NS	NS	NS	537 J	NS	NS	NS	NS	NS	NS	NS	< 1970 U
Dibenzo(a,h)anthracene	1000	1000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	< 367 U	NS	NS	NS	NS	NS	NS	NS	< 1970 UJ
Fluoranthene	5600	1000000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	1310	NS	NS	NS	NS	NS	NS	NS	< 1970 U
Fluorene	5600	1000000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	< 367 U	NS	NS	NS	NS	NS	NS	NS	< 1970 U
Indeno(1,2,3-cd)pyrene	1000	1000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	< 367 U	NS	NS	NS	NS	NS	NS	NS	< 1970 UJ
Phenanthrene	4000	1000000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	986	NS	NS	NS	NS	NS	NS	NS	< 1970 U
Pyrene	4000	1000000	NA	NS	NS	NS	NS	< 385 U	NS	NS	NS	984	NS	NS	NS	NS	NS	NS	NS	< 1970 U
<b>Metals (mg/kg)</b>																				
Arsenic	NE	10	NA	NS	NS	5.78	NS	3.84	NS	NS	NS	4.87	NS	NS	NS	NS	NS	NS	NS	NS
Barium	NE	4700	NA	NS	NS	NS	NS	179	NS	NS	NS	166	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	NA	NS	NS	NS	NS	0.838	NS	NS	NS	0.917	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	NA	NS	NS	0.666	NS	< 0.553 U	NS	NS	NS	< 0.479 U	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	NE	3900	NA	NS	NS	27.3	NS	40.5	NS	NS	NS	42.5	NS	NS	NS	NS	NS	NS	NS	NS
Copper	NE	2500	NA	NS	NS	NS	NS	18.1	NS	NS	NS	22.5	NS	NS	NS	NS	NS	NS	NS	NS
Lead	NE	400	NA	NS	NS	51.8	NS	20.5	NS	NS	NS	44.7	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	NE	20	NA	NS	NS	0.106	NS	0.0576 J+	NS	NS	NS	0.107 J+	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	NE	1400	NA	NS	NS	NS	NS	16.0	NS	NS	NS	18.5	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NE	470	NA	NS	NS	NS	NS	35.9	NS	NS	NS	38.7	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	NE	20000	NA	NS	NS	NS	NS	49.5	NS	NS	NS	59.8	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>																				
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	< 0.0080 U	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	0.0243 J+	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	< 0.0100 U	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	< 0.0150 U	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	< 0.0100 U	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	< 0.0100 U	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/kg)</b>																				
Cyanide	NE	1400	NA	NS	NS	NS	NS	NS	NS	NS	NS	< 1.07 UJ	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>																				
Aroclor 1248	NE	NE	NE	< 0.0230 U	0.30	0.13	NS	0.157	0.0474	0.103	NS	1.41	0.19	0.34	< 0.0255 U	0.18	0.44	0.355	0.206	
Aroclor 1254	NE	NE	NE	< 0.0230 U	0.15	< 0.0235 U	NS	< 0.0229 U	< 0.0231 U	< 0.0202 U	NS	< 0.0208 U	0.23	0.27	< 0.0255 U	< 0.0235 U	0.21	< 0.0221 U	< 0.0239 U	
Aroclor 1260	NE	NE	NE	< 0.0230 U	< 0.084	< 0.0235 U	NS	< 0.0229 U	< 0.0231 U	< 0.0202 U	NS	0.0302	< 0.087	< 0.086	< 0.0255 U	< 0.0235 U	< 0.085	< 0.0221 U	< 0.0239 U	
Total PCB Aroclors	NE	1	10	< 0.0230 U	0.45	0.13	NS	0.157	0.0474	0.103	NS	1.44	0.42	0.61	< 0.0255 U	0.18	0.65	0.355	0.206	
<b>PCBs-SPLP (mg/L)</b>																				
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	0.00129	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	0.00129	NS	NS	NS	NS	NS	NS	NS	NS

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B BC28-SS153 0 - 0.25 ft BC28 SS153 0-3 8/11/2011 SB33302	AOC-16B BC28-SB621 1 - 2 ft BC28-SB121 (1-2') 11/29/2018 18K1266	AOC-16B BC29-SS150 0 - 0.25 ft BC29 SS150 0-3 8/11/2011 SB33302	AOC-16B BD22-SB253 0 - 1 ft BD22-SB253 (0-1) 12/30/2011 SB41831	AOC-16B BD22-SB253 1.5 - 2 ft BD22-SB253 (1.5-2) 12/30/2011 SB41831	AOC-16B BD23-SS140 0 - 0.25 ft BD23 SS140 0-3 8/11/2011	AOC-16B BD23-SS140 0 - 0.5 ft BD23-SS140 8/4/2011	AOC-16B BD27-SB252 0 - 1 ft BD27-SB252 (0-1) 12/30/2011 SB41831	AOC-16B BD27-SB252 1.5 - 2 ft BD27-SB252 (1.5-2) 12/30/2011 SB41831	AOC-16B BD27-SB616 2 - 4 ft BD27-SB616 (2-4) 6/27/2018 18F1381	AOC-16B BD27-SB617 1 - 2 ft BD27-SB617 (1-2) 6/27/2018 18F1381	AOC-16B BD27-SS154 0 - 0.25 ft BD27 SS154 0-3 8/11/2011 SB33302	AOC-16B BD27-SS156 0 - 0.25 ft BD27 SS156 0-3 8/11/2011 SB33302	AOC-16B BD28-SB618 1 - 2 ft BD28-SB618 (1-2) 6/27/2018 18F1381	AOC-16B BD28-SS149 0 - 0.25 ft BD28 SS149 0-3 8/11/2011 SB33302	AOC-16B BD28-SS152 0 - 0.25 ft BD28 SS152 0-3 8/11/2011 SB33302	
<b>Pesticides (ug/kg)</b>																				
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	< 5.27 U	NS	NS	NS	< 5.70 U	NS	NS	NS	NS	NS	NS	NS	7.22	NS
4,4-DDT (p,p)	NE	NE	NA	NS	NS	NS	< 8.44 U	NS	NS	NS	< 9.12 UJ	NS	NS	NS	NS	NS	NS	NS	13.9	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	< 5.27 U	NS	NS	NS	< 5.70 U	NS	NS	NS	NS	NS	NS	NS	< 5.75 U	NS
Chlordane	66	490	NA	NS	NS	NS	< 21.1 U	NS	NS	NS	31.6	NS	NS	NS	NS	NS	NS	NS	38.9	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	< 5.27 U	NS	NS	NS	< 5.70 UJ	NS	NS	NS	NS	NS	NS	NS	< 5.75 U	NS
Total DDx	3	1800	NA	NS	NS	NS	< 8.44	NS	NS	NS	< 9.12	NS	NS	NS	NS	NS	NS	NS	21.12	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected above laboratory reporting limit.**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed RES DEC.**

**Green highlighted results exceed I/C DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected above the specified laboratory reporting limit.

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas

I/C DEC = Industrial/Commercial Direct Exposure Criteria

The I/C DEC for PCBs applies to inaccessible soil.

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B BD29-SS142 0 - 0.25 ft BD29 SS142 0-3 8/11/2011 SB33302	AOC-16B BD29-SS142 0 - 0.5 ft BD29-SS142 8/4/2011 SB33302	AOC-16B BD31-SS143 0 - 0.25 ft BD31 SS143 0-3 8/11/2011 SB32875	AOC-16B BD31-SS143 0 - 0.5 ft BD31-SS143 8/4/2011 SB32875	AOC-16B BE28-SS148 0 - 0.25 ft BE28 SS148 0-3 8/11/2011 SB33302	AOC-16B BE28-SS151 0 - 0.25 ft BE28 SS151 0-3 8/11/2011 SB33302
<b>ETPH (mg/kg)</b>									
Aliphatic Hydrocarbons (ETPH) C9-C36	500	500	NA	NS	NS	NS	NS	NS	138
<b>VOCS (ug/kg)</b>									
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS
<b>SVOCs (ug/kg)</b>									
Acenaphthylene	8400	1000000	NA	NS	NS	NS	NS	NS	NS
Anthracene	40000	1000000	NA	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	NA	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	NA	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	NA	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	NA	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	NA	NS	NS	NS	NS	NS	NS
Chrysene	1000	84000	NA	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	NA	NS	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	NA	NS	NS	NS	NS	NS	NS
Fluorene	5600	1000000	NA	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	NA	NS	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	NA	NS	NS	NS	NS	NS	NS
Pyrene	4000	1000000	NA	NS	NS	NS	NS	NS	NS
<b>Metals (mg/kg)</b>									
Arsenic	NE	10	NA	NS	NS	NS	NS	NS	NS
Barium	NE	4700	NA	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	NA	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	NA	NS	NS	NS	NS	NS	NS
Chromium	NE	3900	NA	NS	NS	NS	NS	NS	NS
Copper	NE	2500	NA	NS	NS	NS	NS	NS	NS
Lead	NE	400	NA	NS	NS	NS	NS	NS	NS
Mercury	NE	20	NA	NS	NS	NS	NS	NS	NS
Nickel	NE	1400	NA	NS	NS	NS	NS	NS	NS
Vanadium	NE	470	NA	NS	NS	NS	NS	NS	NS
Zinc	NE	20000	NA	NS	NS	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>									
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/kg)</b>									
Cyanide	NE	1400	NA	NS	NS	NS	NS	NS	NS
<b>PCBs (mg/kg)</b>									
Aroclor 1248	NE	NE	NE	< 0.0232 U	< 0.0206 U	< 0.0222 U	< 0.0211 U	< 0.0233 U	0.125
Aroclor 1254	NE	NE	NE	< 0.0232 U	< 0.0206 U	< 0.0222 U	< 0.0211 U	< 0.0233 U	< 0.0209 U
Aroclor 1260	NE	NE	NE	< 0.0232 U	< 0.0206 U	< 0.0222 U	< 0.0211 U	< 0.0233 U	< 0.0209 U
Total PCB Aroclors	NE	1	10	< 0.0232 U	< 0.0206 U	< 0.0222 U	< 0.0211 U	< 0.0233 U	0.125
<b>PCBs-SPLP (mg/L)</b>									
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS

**Table 4-8  
Soil Analytical Data  
AOC-16B  
Fields 6 and 7  
Greenwich High School**

AOC Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	GA PMC	R DEC	I/C DEC	AOC-16B BD29-SS142 0 - 0.25 ft BD29 SS142 0-3 8/11/2011 SB33302	AOC-16B BD29-SS142 0 - 0.5 ft BD29-SS142 8/4/2011 SB33302	AOC-16B BD31-SS143 0 - 0.25 ft BD31 SS143 0-3 8/11/2011 SB32875	AOC-16B BD31-SS143 0 - 0.5 ft BD31-SS143 8/4/2011 SB32875	AOC-16B BE28-SS148 0 - 0.25 ft BE28 SS148 0-3 8/11/2011 SB33302	AOC-16B BE28-SS151 0 - 0.25 ft BE28 SS151 0-3 8/11/2011 SB33302
<b>Pesticides (ug/kg)</b>									
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	NE	NE	NA	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS
Chlordane	66	490	NA	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS
Total DDx	3	1800	NA	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/l)</b>	NE	NE	NE	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Analyte detected above laboratory reporting limit.**

**Yellow highlighted results exceed GA PMC.**

**Blue highlighted results exceed RES DEC.**

**Green highlighted results exceed I/C DEC.**

*Italicized criteria values* are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (DEEP, 2018) and are presented for purposes of preliminary evaluation.

<0.01 = Analyte not detected above the specified laboratory reporting limit.

R DEC = Residential Direct Exposure Criteria

GA PMC = Pollutant Mobility Criteria applicable to GA groundwater areas

I/C DEC = Industrial/Commercial Direct Exposure Criteria

The I/C DEC for PCBs applies to inaccessible soil.

NE = Criterion has not been established for this analyte

NS = Not sampled for the specified analyte

ND = None detected

NA = Not applicable

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Total DDx = Sum of 4,4-DDD, 4,4-DDE and 4,4-DDT

**Table 5-1  
September and December 2018  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-28 MW-28-092818-1 9/28/2018 1811338	MW-28 MW-28-121018-1 12/10/2018 18L0420	MW-35 MW-35-092818-1 9/28/2018 1811338	MW-35 MW-35-121018-1 12/10/2018 18L0420	MW-AA12 MW-AA12-121318-1 12/13/2018 18L0663	MW-AA12D MW-AA12D-092818-1 9/26/2018 1811195	MW-AA12D MW-AA12D-121218-1 12/12/2018 18L0583	MW-AA19 MW-AA19-092518-1 9/25/2018 1811109	MW-AA19 MW-AA19-121318-1 12/13/2018 18L0663	MW-AE8 MW-AE8-092618-1 9/26/2018 1811195	MW-AE8 MW-AE8-121318-41 12/13/2018 18L0663	MW-AG10 MW-AG10-092718-1 9/27/2018 1811258	MW-AG10 MW-AG10-121118-1 12/11/2018 18L0484	MW-AG30 MW-AG30-092718-1 9/27/2018 1811258
<b>CT ETPH (ug/L)</b>																
Aliphatic Hydrocarbons (ETPH) C9-C36	250	250	NS	76	NS	130	NS	NS	NS	NS	NS	NS	85	NS	NS	NS
<b>VOCs (ug/L)</b>																
Tetrachloroethylene	5	88	NS	< 1.0	NS	2.4	NS	NS	NS	NS	NS	NS	< 2.0	NS	NS	NS
<b>PAHs (ug/L)</b>																
2-Methylnaphthalene	28	62	< 0.05	< 1.1	< 0.05	< 0.97	NS	NS	NS	NS	NS	< 0.05	< 0.98	NS	NS	NS
Acenaphthene	420	150	< 0.05	< 0.32	< 0.05	< 0.29	NS	NS	NS	NS	NS	< 0.05	< 0.29	NS	NS	NS
Anthracene	2000	1100000	< 0.05	< 0.21	< 0.05	< 0.19	NS	NS	NS	NS	NS	< 0.05	< 0.20	NS	NS	NS
Benzo(g,h,i)perylene	0.48	150	< 0.05	< 0.53	< 0.05	< 0.49	NS	NS	NS	NS	NS	< 0.05	< 0.49	NS	NS	NS
Dibenzo(a,h)anthracene	0.1	0.3	< 0.01	< 0.11	< 0.01	< 0.097	NS	NS	NS	NS	NS	< 0.01	< 0.098	NS	NS	NS
Fluorene	280	140000	< 0.05	< 1.1	< 0.05	< 0.97	NS	NS	NS	NS	NS	< 0.05	< 0.98	NS	NS	NS
Indeno(1,2,3-cd)pyrene	0.1	0.54	< 0.05	< 0.11	< 0.05	< 0.097	NS	NS	NS	NS	NS	< 0.05	< 0.098	NS	NS	NS
Naphthalene	280	210	< 0.09	< 1.1	< 0.10	< 0.97	NS	NS	NS	NS	NS	< 0.09	< 0.98	NS	NS	NS
Phenanthrene	200	0.077	< 0.05	< 0.053	< 0.05	< 0.049	NS	NS	NS	NS	NS	< 0.05	< 0.049	NS	NS	NS
Pyrene	200	110000	< 0.05	< 1.1	< 0.05	< 0.97	NS	NS	NS	NS	NS	< 0.05	< 0.98	NS	NS	NS
<b>Total Metals (ug/L)</b>																
Antimony	6	86000	< 5	< 5.0	< 5	< 5.0	NS	NS	NS	NS	NS	< 5	< 5.0	NS	NS	NS
Arsenic	50	4	< 4	< 2.0	<b>15</b>	<b>8.7</b>	NS	NS	NS	NS	NS	< 4	< 2.0	NS	NS	NS
Barium	1000	2200	<b>68</b>	<b>87</b>	<b>201</b>	<b>80</b>	NS	NS	NS	NS	NS	<b>105</b>	<b>110</b>	NS	NS	NS
Beryllium	4	4	< 1	< 2.0	<b>1</b>	< 2.0	NS	NS	NS	NS	NS	< 1	< 2.0	NS	NS	NS
Chromium	50	NE	< 1	< 5.0	<b>6</b>	<b>5.7</b>	NS	NS	NS	NS	NS	< 1	< 5.0	NS	NS	NS
Copper	1300	48	< 5	< 25	<b>48</b>	<b>44</b>	NS	NS	NS	NS	NS	<b>14</b>	< 25	NS	NS	NS
Lead	15	13	< 2	< 5.0	<b>30</b>	<b>22</b>	NS	NS	NS	NS	NS	< 2	< 5.0	NS	NS	NS
Nickel	100	880	< 1	< 25	<b>12</b>	< 25	NS	NS	NS	NS	NS	<b>3</b>	< 25	NS	NS	NS
Vanadium	50	270	< 2	< 25	<b>16</b>	< 25	NS	NS	NS	NS	NS	<b>3</b>	< 25	NS	NS	NS
Zinc	5000	123	< 4	< 50	<b>9</b>	< 50	NS	NS	NS	NS	NS	<b>7</b>	< 50	NS	NS	NS
<b>Pesticides (ug/L)</b>																
Total Pesticides	NE	NE	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>																
Decachlorobiphenyl (PCB-209)	NE	NE	< 0.0048	< 0.0053	< 0.0049	< 0.0050	< 0.0051	< 0.0050	< 0.0049	< 0.0050	< 0.0051	< 0.0050	< 0.0052	< 0.0050	< 0.0049	< 0.0062
Dichlorobiphenyl	NE	NE	< 0.00096	< 0.0011	< 0.00098	< 0.00099	<b>0.42</b>	<b>0.013</b>	<b>0.0075</b>	< 0.0010	< 0.0010	<b>0.0049</b>	< 0.0010	<b>0.25</b>	<b>0.14</b>	< 0.0012
Hexachlorobiphenyl	NE	NE	< 0.0019	< 0.0021	< 0.0020	< 0.0020	< 0.0020	<b>0.0030</b>	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0021	< 0.0020	< 0.0020	<b>0.0044</b>
Monochlorobiphenyl	NE	NE	< 0.00096	< 0.0011	< 0.00098	< 0.00099	<b>0.0079</b>	<b>0.0012</b>	< 0.00098	<b>0.0011</b>	< 0.0010	<b>0.0034</b>	< 0.0010	<b>0.024</b>	<b>0.018</b>	< 0.0012
Pentachlorobiphenyl	NE	NE	< 0.0019	< 0.0021	< 0.0020	< 0.0020	<b>0.014</b>	<b>0.043</b>	<b>0.0045</b>	< 0.0020	< 0.0020	<b>0.0085</b>	<b>0.013</b>	<b>0.016</b>	<b>0.0023</b>	<b>0.0065</b>
Tetrachlorobiphenyl	NE	NE	< 0.0019	< 0.0021	< 0.0020	< 0.0020	<b>0.10</b>	<b>0.14</b>	<b>0.026</b>	< 0.0020	< 0.0020	<b>0.048</b>	<b>0.035</b>	<b>0.11</b>	<b>0.035</b>	<b>0.0039</b>
Trichlorobiphenyl	NE	NE	< 0.00096	< 0.0011	< 0.00098	< 0.00099	<b>0.39</b>	<b>0.086</b>	<b>0.018</b>	< 0.0010	< 0.0010	<b>0.013</b>	<b>0.0074</b>	<b>0.12</b>	<b>0.051</b>	< 0.0012
Total PCB Homologues	0.5	0.5	ND	ND	ND	ND	<b>0.9319</b>	<b>0.2862</b>	<b>0.056</b>	<b>0.0011</b>	ND	<b>0.0778</b>	<b>0.0554</b>	<b>0.52</b>	<b>0.2463</b>	<b>0.0148</b>

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Detected above reporting limit**  
**Orange highlighted cells exceed GWPC.**  
**Yellow highlighted cells exceed SWPC.**  
<0.01 = Not detected above the specified laboratory reporting limit  
GWPC = Ground water protection criteria  
SWPC = Surface water protection criteria  
*Italicized* criteria values are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (APS) for purposes of preliminary  
NE = Criterion has not been established  
NS = Not Sampled for Specific Analyte  
ug/L = microgram per liter  
NS = Not sampled for this constituent  
mg/L = milligram per Liter  
(1) 0.1 mg/l is the current recommended screening criteria and requires CTDEEP approval to implement. 0.25 mg/l is the proposed GWPC.  
(2) 100 ug/l is the promulgated GWPC. 70 ug/l is the Drinking Water Action Level set by the Connecticut Department of Public Health.

**Table 5-1  
September and December 2018  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AG30 MW-AG30-121218-1 12/12/2018 18L0583	MW-AH160 MW-AH160-092718-1 9/27/2018 18I1258	MW-AH16D MW-AH16D-121218-1 12/12/2018 18L0583	MW-AH16R MW-AH16R-092718-1 9/27/2018 18I1258	MW-AH16R MW-AH16R-121218-1 12/12/2018 18L0583	MW-AJ13 MW-AJ13-092718-1 9/27/2018 18I1258	MW-AJ13 MW-AJ13-121218-1 12/12/2018 18L0583	MW-AJ13D MW-AJ13D-092718-1 9/27/2018 18I1258	MW-AJ13D MW-AJ13D-121218-1 12/12/2018 18L0583	MW-AJ19 MW-AJ19-092718-1 9/27/2018 18I1338	MW-AJ19 MW-AJ19-121118-1 12/11/2018 18L0484	MW-AL10 MW-AL10-092618-1 9/26/2018 18I1195	MW-AL10 MW-AL10-121118-1 12/11/2018 18L0484	MW-AM16 MW-AM16R-092718-1 9/27/2018 18I1258
<b>CT ETPH (ug/L)</b>																
Aliphatic Hydrocarbons (ETPH) C9-C36	250	250	NS	NS	NS	NS	<b>420</b>	NS	<b>190</b>	NS	NS	NS	NS	NS	NS	NS
<b>VOCs (ug/L)</b>																
Tetrachloroethylene	5	88	NS	NS	NS	NS	< 2.0	NS	< 1.0	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/L)</b>																
2-Methylnaphthalene	28	62	NS	NS	NS	<b>0.22</b>	< 1.0	< 0.05	< 1.0	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	420	150	NS	NS	NS	<b>0.46</b>	< 0.30	< 0.05	< 0.30	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS	<b>0.05</b>	< 0.20	< 0.05	< 0.20	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	0.48	150	NS	NS	NS	< 0.05	< 0.50	< 0.05	< 0.50	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	0.1	0.3	NS	NS	NS	< 0.01	< 0.10	< 0.01	< 0.10	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	NS	NS	NS	<b>0.29</b>	< 1.0	< 0.05	< 1.0	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	0.1	0.54	NS	NS	NS	< 0.05	< 0.10	< 0.05	< 0.10	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	210	NS	NS	NS	<b>0.31</b>	<b>1.0</b>	< 0.09	< 1.0	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077	NS	NS	NS	< 0.05	< 0.050	< 0.05	< 0.050	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	NS	NS	NS	< 0.05	< 1.0	< 0.05	< 1.0	NS	NS	NS	NS	NS	NS	NS
<b>Total Metals (ug/L)</b>																
Antimony	6	86000	NS	NS	NS	< 5	< 5.0	< 5	< 5.0	NS	NS	NS	NS	NS	NS	NS
Arsenic	50	4	NS	NS	NS	<b>7</b>	<b>4.4</b>	< 4	<b>7.4</b>	NS	NS	NS	NS	NS	NS	NS
Barium	1000	2200	NS	NS	NS	<b>429</b>	<b>180</b>	<b>37</b>	<b>80</b>	NS	NS	NS	NS	NS	NS	NS
Beryllium	4	4	NS	NS	NS	< 1	< 2.0	< 1	< 2.0	NS	NS	NS	NS	NS	NS	NS
Chromium	50	NE	NS	NS	NS	<b>2</b>	< 5.0	< 1	< 5.0	NS	NS	NS	NS	NS	NS	NS
Copper	1300	48	NS	NS	NS	< 5	< 25	< 5	< 25	NS	NS	NS	NS	NS	NS	NS
Lead	15	13	NS	NS	NS	< 2	< 5.0	< 2	< 5.0	NS	NS	NS	NS	NS	NS	NS
Nickel	100	880	NS	NS	NS	<b>5</b>	< 25	<b>7</b>	< 25	NS	NS	NS	NS	NS	NS	NS
Vanadium	50	270	NS	NS	NS	<b>5</b>	< 25	< 2	< 25	NS	NS	NS	NS	NS	NS	NS
Zinc	5000	123	NS	NS	NS	<b>24</b>	< 50	<b>3690</b>	<b>4000</b>	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/L)</b>																
Total Pesticides	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND
<b>PCB Homologs (ug/L)</b>																
Decachlorobiphenyl (PCB-209)	NE	NE	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<b>6.1</b>	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0045	< 0.0051	< 0.0050	< 0.0049	< 0.0051
Dichlorobiphenyl	NE	NE	< 0.0010	<b>0.10</b>	<b>0.012</b>	<b>6.3</b>	<b>2.0</b>	<b>0.47</b>	<b>0.30</b>	<b>0.045</b>	<b>0.21</b>	< 0.00091	< 0.0010	< 0.0010	< 0.00098	<b>0.10</b>
Hexachlorobiphenyl	NE	NE	< 0.0020	< 0.0020	< 0.0020	<b>0.0047</b>	< 0.0020	<b>0.0036</b>	< 0.0020	<b>0.0025</b>	< 0.0020	< 0.0018	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Monochlorobiphenyl	NE	NE	<b>0.0015</b>	<b>0.031</b>	<b>0.0052</b>	<b>7.4</b>	<b>3.4</b>	<b>0.0036</b>	<b>0.0056</b>	<b>0.0032</b>	<b>0.029</b>	< 0.00091	< 0.0010	< 0.0010	< 0.00098	<b>0.010</b>
Pentachlorobiphenyl	NE	NE	< 0.0020	< 0.0020	< 0.0020	<b>0.047</b>	<b>0.018</b>	<b>0.071</b>	<b>0.049</b>	<b>0.010</b>	<b>0.026</b>	<b>0.0039</b>	<b>0.010</b>	< 0.0020	< 0.0020	<b>0.028</b>
Tetrachlorobiphenyl	NE	NE	< 0.0020	<b>0.024</b>	<b>0.0054</b>	<b>0.33</b>	<b>0.17</b>	<b>0.66</b>	<b>0.44</b>	<b>0.015</b>	<b>0.10</b>	<b>0.019</b>	<b>0.033</b>	<b>0.0025</b>	<b>0.0061</b>	<b>0.20</b>
Trichlorobiphenyl	NE	NE	< 0.0010	<b>0.057</b>	<b>0.0077</b>	<b>1.1</b>	<b>0.47</b>	<b>2.6</b>	<b>1.9</b>	<b>0.036</b>	<b>0.31</b>	<b>0.0087</b>	<b>0.016</b>	< 0.0010	< 0.00098	<b>0.19</b>
Total PCB Homologues	0.5	0.5	<b>0.0015</b>	<b>0.212</b>	<b>0.0303</b>	<b>15.1817</b>	<b>12.158</b>	<b>3.8082</b>	<b>2.6946</b>	<b>0.1117</b>	<b>0.675</b>	<b>0.0316</b>	<b>0.059</b>	<b>0.0025</b>	<b>0.0061</b>	<b>0.528</b>

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Detected above reporting limit**  
**Orange highlighted cells exceed GWPC.**  
**Yellow highlighted cells exceed SWPC.**  
<0.01 = Not detected above the specified laboratory reporting limit  
GWPC = Ground water protection criteria  
SWPC = Surface water protection criteria  
*Italicized* criteria values are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (APS) for purposes of preliminary  
NE = Criterion has not been established  
NS = Not Sampled for Specific Analyte  
ug/L = microgram per liter  
NS = Not sampled for this constituent  
mg/L = milligram per Liter  
(1) 0.1 mg/l is the current recommended screening criteria and requires CTDEEP approval to implement. 0.25 mg/l is the proposed GWPC.  
(2) 100 ug/l is the promulgated GWPC. 70 ug/l is the Drinking Water Action Level set by the Connecticut Department of Public Health.

**Table 5-1  
September and December 2018  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AM16 MW-AM16-121118-1 12/11/2018 18L0484	MW-AM16D MW-AM16D-092718-1 9/27/2018 18I1258	MW-AM16D MW-AM16D-121118-1 12/11/2018 18L0484	MW-AM21 MW-AM21-092718-1 9/27/2018 18I1338	MW-AM21 MW-AM21-121118-1 12/11/2018 18L0484	MW-AP11 MW-AP11-092618-1 9/26/2018 18I1195	MW-AP11 MW-AP11-121118-1 12/11/2018 18L0484	MW-AP28 MW-AP28-092718-1 9/27/2018 18I1258	MW-AP28 MW-AP28-121018-1 12/10/2018 18L0420	MW-AV17 MW-AV17-092718-1 9/27/2018 18I1258	MW-AV17 MW-AV17-121118-1 12/11/2018 18L0484	MW-F35 MW-F35-092818-1 9/28/2018 18I1338	MW-F35 MW-F35-121018-1 12/10/2018 18L0420	MW-L25 MW-L25-092818-1 9/28/2018 18I1338
<b>CT ETPH (ug/L)</b>																
Aliphatic Hydrocarbons (ETPH) C9-C36	250	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOCs (ug/L)</b>																
Tetrachloroethylene	5	88	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/L)</b>																
2-Methylnaphthalene	28	62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	420	150	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	0.48	150	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	0.1	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	0.1	0.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	210	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Total Metals (ug/L)</b>																
Antimony	6	86000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	50	4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1000	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	4	4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1300	48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	15	13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	100	880	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	50	270	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5000	123	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/L)</b>																
Total Pesticides	NE	NE	ND	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	NS
<b>PCB Homologs (ug/L)</b>																
Decachlorobiphenyl (PCB-209)	NE	NE	< 0.0049	< 0.0050	< 0.0049	< 0.0049	< 0.0051	< 0.0050	< 0.0049	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0045	NS	< 0.0048
Dichlorobiphenyl	NE	NE	<b>0.0034</b>	< 0.0010	< 0.00098	< 0.00098	< 0.0010	<b>0.0017</b>	< 0.00098	< 0.0010	< 0.00099	< 0.0010	< 0.00099	<b>0.0056</b>	NS	< 0.00095
Hexachlorobiphenyl	NE	NE	< 0.0019	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0018	NS	< 0.0019
Monochlorobiphenyl	NE	NE	< 0.00097	< 0.0010	< 0.00098	< 0.00098	< 0.0010	< 0.0010	< 0.00098	< 0.0010	< 0.00099	< 0.0010	< 0.00099	<b>0.0011</b>	NS	< 0.00095
Pentachlorobiphenyl	NE	NE	<b>0.0050</b>	<b>0.0025</b>	< 0.0020	<b>0.012</b>	<b>0.011</b>	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0018	NS	< 0.0019
Tetrachlorobiphenyl	NE	NE	<b>0.031</b>	<b>0.015</b>	<b>0.0068</b>	<b>0.029</b>	<b>0.027</b>	< 0.0020	< 0.0020	< 0.0020	< 0.0020	<b>0.0063</b>	< 0.0020	< 0.0018	NS	< 0.0019
Trichlorobiphenyl	NE	NE	<b>0.023</b>	<b>0.0050</b>	<b>0.0020</b>	< 0.00098	< 0.0010	< 0.0010	<b>0.0011</b>	< 0.0010	< 0.00099	< 0.0010	< 0.00099	<b>0.0062</b>	NS	< 0.00095
Total PCB Homologues	0.5	0.5	<b>0.0624</b>	<b>0.0225</b>	<b>0.0088</b>	<b>0.041</b>	<b>0.038</b>	<b>0.0017</b>	<b>0.0011</b>	ND	ND	<b>0.0063</b>	ND	<b>0.0129</b>	NS	ND

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Detected above reporting limit**  
**Orange highlighted cells exceed GWPC.**  
**Yellow highlighted cells exceed SWPC.**  
<0.01 = Not detected above the specified laboratory reporting limit  
GWPC = Ground water protection criteria  
SWPC = Surface water protection criteria  
*Italicized* criteria values are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (APS) for purposes of preliminary  
NE = Criterion has not been established  
NS = Not Sampled for Specific Analyte  
ug/L = microgram per liter  
NS = Not sampled for this constituent  
mg/L = milligram per Liter  
(1) 0.1 mg/l is the current recommended screening criteria and requires CTDEEP approval to implement. 0.25 mg/l is the proposed GWPC.  
(2) 100 ug/l is the promulgated GWPC. 70 ug/l is the Drinking Water Action Level set by the Connecticut Department of Public Health.

**Table 5-1  
September and December 2018  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-L25 MW-L25-121118-1 12/11/2018 18L0484	MW-P11 MW-P11-092518-1 9/25/2018 18I1109	MW-P11 MW-P11-121318-1 12/13/2018 18L0663	MW-P7 MW-P7-092518-1 9/25/2018 18I1109	MW-P7 MW-P7-121318-1 12/13/2018 18L0663	MW-R20 MW-R20-092818-1 9/28/2018 18I1338	MW-R20 MW-R20-092818-2 9/28/2018 18I1338	MW-R20 MW-R20-121118-1 12/11/2018 18L0484	MW-R20 MW-R20-121118-2 9/25/2018 18L0484	MW-S15 MW-S15 092518-1 9/25/2018 GCB38518	MW-S15 MW-S15-092518-1 9/25/2018 18I1109	MW-S15 MW-S15 092518-2 9/25/2018 GCB38518	MW-S15 MW-S15-092518-2 9/25/2018 18I1109	MW-S15 MW-S15-121318-1 12/13/2018 18L0663
<b>CT ETPH (ug/L)</b>																
Aliphatic Hydrocarbons (ETPH) C9-C36	250	250	NS	NS	NS	NS	< 77	NS	NS	NS	NS	NS	NS	NS	NS	<b>110</b>
<b>VOCs (ug/L)</b>																
Tetrachloroethylene	5	88	NS	NS	NS	NS	< 1.0	NS	NS	NS	NS	NS	NS	NS	NS	< 1.0
<b>PAHs (ug/L)</b>																
2-Methylnaphthalene	28	62	NS	NS	NS	< 0.05	< 1.0	NS	NS	NS	NS	< 0.05	NS	< 0.05	NS	< 1.0
Acenaphthene	420	150	NS	NS	NS	< 0.05	< 0.30	NS	NS	NS	NS	< 0.05	NS	< 0.05	NS	< 0.30
Anthracene	2000	1100000	NS	NS	NS	< 0.05	< 0.20	NS	NS	NS	NS	< 0.05	NS	< 0.05	NS	< 0.20
Benzo(g,h,i)perylene	0.48	150	NS	NS	NS	< 0.05	< 0.50	NS	NS	NS	NS	<b>0.19</b>	NS	< 0.05	NS	< 0.50
Dibenzo(a,h)anthracene	0.1	0.3	NS	NS	NS	< 0.01	< 0.10	NS	NS	NS	NS	<b>0.13</b>	NS	< 0.01	NS	< 0.10
Fluorene	280	140000	NS	NS	NS	< 0.05	< 1.0	NS	NS	NS	NS	< 0.05	NS	< 0.05	NS	< 1.0
Indeno(1,2,3-cd)pyrene	0.1	0.54	NS	NS	NS	< 0.05	< 0.10	NS	NS	NS	NS	<b>0.18</b>	NS	< 0.05	NS	< 0.10
Naphthalene	280	210	NS	NS	NS	< 0.09	< 1.0	NS	NS	NS	NS	< 0.09	NS	< 0.09	NS	< 1.0
Phenanthrene	200	0.077	NS	NS	NS	< 0.05	< 0.050	NS	NS	NS	NS	< 0.05	NS	< 0.05	NS	< 0.050
Pyrene	200	110000	NS	NS	NS	< 0.05	< 1.0	NS	NS	NS	NS	< 0.05	NS	< 0.05	NS	< 1.0
<b>Total Metals (ug/L)</b>																
Antimony	6	86000	NS	NS	NS	< 5	< 5.0	NS	NS	NS	NS	< 5	NS	< 5	NS	< 5.0
Arsenic	50	4	NS	NS	NS	< 4	< 2.0	NS	NS	NS	NS	<b>7</b>	NS	<b>6</b>	NS	< 2.0
Barium	1000	2200	NS	NS	NS	<b>145</b>	<b>140</b>	NS	NS	NS	NS	<b>134</b>	NS	<b>132</b>	NS	<b>150</b>
Beryllium	4	4	NS	NS	NS	< 1	< 2.0	NS	NS	NS	NS	< 1	NS	< 1	NS	< 2.0
Chromium	50	NE	NS	NS	NS	< 1	< 5.0	NS	NS	NS	NS	<b>2</b>	NS	<b>1</b>	NS	< 5.0
Copper	1300	48	NS	NS	NS	< 5	< 25	NS	NS	NS	NS	< 5	NS	< 5	NS	< 25
Lead	15	13	NS	NS	NS	< 2	< 5.0	NS	NS	NS	NS	< 2	NS	< 2	NS	< 5.0
Nickel	100	880	NS	NS	NS	<b>3</b>	< 25	NS	NS	NS	NS	< 1	NS	< 1	NS	< 25
Vanadium	50	270	NS	NS	NS	< 2	< 25	NS	NS	NS	NS	<b>4</b>	NS	<b>4</b>	NS	< 25
Zinc	5000	123	NS	NS	NS	<b>10</b>	< 50	NS	NS	NS	NS	< 4	NS	< 4	NS	< 50
<b>Pesticides (ug/L)</b>																
Total Pesticides	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	ND
<b>PCB Homologs (ug/L)</b>																
Decachlorobiphenyl (PCB-209)	NE	NE	< 0.0051	< 0.0047	< 0.0052	< 0.0050	< 0.0051	< 0.0048	< 0.0050	< 0.0051	< 0.0050	NS	< 0.0047	NS	< 0.0046	< 0.0052
Dichlorobiphenyl	NE	NE	< 0.0010	< 0.00094	< 0.0010	< 0.0010	< 0.0010	< 0.00095	< 0.0010	< 0.0010	< 0.0010	NS	<b>0.0036</b>	NS	<b>0.0071</b>	<b>0.0043</b>
Hexachlorobiphenyl	NE	NE	< 0.0020	< 0.0019	< 0.0021	< 0.0020	< 0.0020	< 0.0019	< 0.0020	< 0.0020	< 0.0020	NS	< 0.0019	NS	< 0.0018	< 0.0021
Monochlorobiphenyl	NE	NE	< 0.0010	< 0.00094	< 0.0010	< 0.0010	< 0.0010	< 0.00095	< 0.0010	< 0.0010	< 0.0010	NS	< 0.00095	NS	< 0.00092	< 0.0010
Pentachlorobiphenyl	NE	NE	< 0.0020	< 0.0019	< 0.0021	< 0.0020	< 0.0020	< 0.0019	< 0.0020	< 0.0020	< 0.0020	NS	<b>0.0027</b>	NS	<b>0.0027</b>	<b>0.0030</b>
Tetrachlorobiphenyl	NE	NE	< 0.0020	< 0.0019	< 0.0021	< 0.0020	< 0.0020	< 0.0019	< 0.0020	< 0.0020	< 0.0020	NS	<b>0.018</b>	NS	<b>0.024</b>	<b>0.017</b>
Trichlorobiphenyl	NE	NE	< 0.0010	< 0.00094	< 0.0010	< 0.0010	< 0.0010	< 0.00095	< 0.0010	< 0.0010	< 0.0010	NS	<b>0.017</b>	NS	<b>0.016</b>	<b>0.015</b>
Total PCB Homologues	0.5	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	<b>0.0413</b>	NS	<b>0.0498</b>	<b>0.0393</b>

**Notes:**  
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**Orange highlighted cells exceed GWPC.**  
**Yellow highlighted cells exceed SWPC.**  
<0.01 = Not detected above the specified laboratory reporting limit  
GWPC = Ground water protection criteria  
SWPC = Surface water protection criteria  
*Italicized* criteria values are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (APS) for purposes of preliminary  
NE = Criterion has not been established  
NS = Not Sampled for Specific Analyte  
ug/L = microgram per liter  
NS = Not sampled for this constituent  
mg/L = miligram per Liter  
(1) 0.1 mg/l is the current recommended screening criteria and requires CTDEEP approval to implement. 0.25 mg/l is the proposed GWPC.  
(2) 100 ug/l is the promulgated GWPC. 70 ug/l is the Drinking Water Action Level set by the Connecticut Department of Public Health.

**Table 5-1  
September and December 2018  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-S15 MW-S15-121318-2 12/13/2018 18L0663	MW-T23 MW-T23-092818-1 9/28/2018 18I1338	MW-T23 MW-T23-121318-1 12/13/2018 18L0663	MW-V18 MW-V18-092618-1 9/26/2018 18I1195	MW-V18 MW-V18-121318-1 12/13/2018 18L0663	MW-X17 MW-X17-092618-1 9/26/2018 18I1195	MW-X17 MW-X17-121318-1 12/13/2018 18L0663	MW-Y15 MW-Y15-092618-1 9/26/2018 18I1195	MW-Y15 MW-Y15-121218-1 12/12/2018 18L0583	MW-Y15D MW-Y15D-092618-1 9/26/2018 18I1195	MW-Y15D MW-Y15D-121218-1 12/12/2018 18L0583	MW-Y26 MW-Y26-092818-1 9/28/2018 18I1338	MW-Y26 MW-Y26-121218-1 12/12/2018 18L0583	MW-Y9 MW-Y9-092618-1 9/26/2018 18I1195
<b>CT ETPH (ug/L)</b>																
Aliphatic Hydrocarbons (ETPH) C9-C36	250	250	100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOCs (ug/L)</b>																
Tetrachloroethylene	5	88	< 1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/L)</b>																
2-Methylnaphthalene	28	62	< 1.0	NS	NS	NS	NS	NS	NS	0.08	NS	NS	NS	NS	NS	< 0.05
Acenaphthene	420	150	< 0.31	NS	NS	NS	NS	NS	NS	0.53	NS	NS	NS	NS	NS	< 0.05
Anthracene	2000	1100000	< 0.21	NS	NS	NS	NS	NS	NS	0.08	NS	NS	NS	NS	NS	< 0.05
Benzo(g,h,i)perylene	0.48	150	< 0.52	NS	NS	NS	NS	NS	NS	< 0.05	NS	NS	NS	NS	NS	< 0.05
Dibenzo(a,h)anthracene	0.1	0.3	< 0.10	NS	NS	NS	NS	NS	NS	< 0.01	NS	NS	NS	NS	NS	< 0.01
Fluorene	280	140000	< 1.0	NS	NS	NS	NS	NS	NS	0.31	NS	NS	NS	NS	NS	< 0.05
Indeno(1,2,3-cd)pyrene	0.1	0.54	< 0.10	NS	NS	NS	NS	NS	NS	< 0.05	NS	NS	NS	NS	NS	< 0.05
Naphthalene	280	210	< 1.0	NS	NS	NS	NS	NS	NS	< 0.09	NS	NS	NS	NS	NS	< 0.09
Phenanthrene	200	0.077	< 0.052	NS	NS	NS	NS	NS	NS	0.09	NS	NS	NS	NS	NS	< 0.05
Pyrene	200	110000	< 1.0	NS	NS	NS	NS	NS	NS	< 0.05	NS	NS	NS	NS	NS	< 0.05
<b>Total Metals (ug/L)</b>																
Antimony	6	86000	< 5.0	NS	NS	NS	NS	NS	NS	< 5	< 5.0	NS	NS	NS	NS	21
Arsenic	50	4	< 2.0	NS	NS	NS	NS	NS	NS	< 4	2.0	NS	NS	NS	NS	7
Barium	1000	2200	150	NS	NS	NS	NS	NS	NS	584	650	NS	NS	NS	NS	1250
Beryllium	4	4	< 2.0	NS	NS	NS	NS	NS	NS	< 1	< 2.0	NS	NS	NS	NS	< 1
Chromium	50	NE	< 5.0	NS	NS	NS	NS	NS	NS	< 1	< 5.0	NS	NS	NS	NS	< 1
Copper	1300	48	< 25	NS	NS	NS	NS	NS	NS	< 5	< 25	NS	NS	NS	NS	< 5
Lead	15	13	< 5.0	NS	NS	NS	NS	NS	NS	2	< 5.0	NS	NS	NS	NS	7
Nickel	100	880	< 25	NS	NS	NS	NS	NS	NS	2	< 25	NS	NS	NS	NS	5
Vanadium	50	270	< 25	NS	NS	NS	NS	NS	NS	3	< 25	NS	NS	NS	NS	4
Zinc	5000	123	< 50	NS	NS	NS	NS	NS	NS	17	< 50	NS	NS	NS	NS	9
<b>Pesticides (ug/L)</b>																
Total Pesticides	NE	NE	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND
<b>PCB Homologs (ug/L)</b>																
Decachlorobiphenyl (PCB-209)	NE	NE	< 0.0052	< 0.0050	< 0.0048	< 0.0051	< 0.0050	< 0.0052	< 0.0050	< 0.0050	< 0.0048	< 0.0050	< 0.0049	< 0.0048	< 0.0050	< 0.0050
Dichlorobiphenyl	NE	NE	0.0047	< 0.0010	< 0.00096	0.014	0.015	0.0042	< 0.0010	9.6	9.4	< 0.0010	0.045	< 0.00096	< 0.0010	< 0.0010
Hexachlorobiphenyl	NE	NE	< 0.0021	< 0.0020	< 0.0019	< 0.0020	< 0.0020	< 0.0021	< 0.0020	0.0022	< 0.0019	< 0.0020	< 0.0020	< 0.0019	< 0.0020	0.0042
Monochlorobiphenyl	NE	NE	< 0.0010	< 0.0010	< 0.00096	0.0011	< 0.00099	0.0016	< 0.0010	9.7	9.3	0.0014	0.017	< 0.00096	< 0.0010	< 0.0010
Pentachlorobiphenyl	NE	NE	< 0.0021	< 0.0020	< 0.0019	< 0.0020	< 0.0020	< 0.0021	< 0.0020	0.041	0.019	< 0.0020	0.0058	< 0.0019	< 0.0020	0.013
Tetrachlorobiphenyl	NE	NE	0.013	< 0.0020	< 0.0019	0.022	0.024	< 0.0021	0.0097	0.30	0.20	< 0.0020	0.036	< 0.0019	< 0.0020	0.0092
Trichlorobiphenyl	NE	NE	0.015	< 0.0010	< 0.00096	0.039	0.038	0.0035	0.0052	1.4	1.2	< 0.0010	0.040	< 0.00096	< 0.0010	< 0.0010
Total PCB Homologues	0.5	0.5	0.0327	ND	ND	0.0761	0.077	0.0093	0.0149	21.0432	20.119	0.0014	0.1438	ND	ND	0.0264

**Notes:**  
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**Orange highlighted cells exceed GWPC.**  
**Yellow highlighted cells exceed SWPC.**  
<0.01 = Not detected above the specified laboratory reporting limit  
GWPC = Ground water protection criteria  
SWPC = Surface water protection criteria  
*Italicized* criteria values are from DEEP's Recommended Numerical Criteria for Common Additional Polluting Substances (APS) for purposes of preliminary  
NE = Criterion has not been established  
NS = Not Sampled for Specific Analyte  
ug/L = microgram per liter  
NS = Not sampled for this constituent  
mg/L = miligram per Liter  
(1) 0.1 mg/l is the current recommended screening criteria and requires CTDEEP approval to implement. 0.25 mg/l is the proposed GWPC.  
(2) 100 ug/l is the promulgated GWPC. 70 ug/l is the Drinking Water Action Level set by the Connecticut Department of Public Health.

**Table 5-1  
September and December 2018  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-Y9 MW-Y9-121218-1 12/12/2018 18L0583	MW-Y9D MW-Y9D-092618-1 9/26/2018 18I1195	MW-Y9D MW-Y9D-121218-1 12/12/2018 18L0583
<b>CT ETPH (ug/L)</b>					
Aliphatic Hydrocarbons (ETPH) C9-C36	250	250	<b>280</b>	NS	NS
<b>VOCs (ug/L)</b>					
Tetrachloroethylene	5	88	< 1.0	NS	NS
<b>PAHs (ug/L)</b>					
2-Methylnaphthalene	28	62	< 0.98	NS	NS
Acenaphthene	420	150	< 0.29	NS	NS
Anthracene	2000	1100000	< 0.20	NS	NS
Benzo(g,h,i)perylene	0.48	150	< 0.49	NS	NS
Dibenzo(a,h)anthracene	0.1	0.3	< 0.098	NS	NS
Fluorene	280	140000	< 0.98	NS	NS
Indeno(1,2,3-cd)pyrene	0.1	0.54	< 0.098	NS	NS
Naphthalene	280	210	< 0.98	NS	NS
Phenanthrene	200	0.077	< 0.049	NS	NS
Pyrene	200	110000	< 0.98	NS	NS
<b>Total Metals (ug/L)</b>					
Antimony	6	86000	< 5.0	NS	NS
Arsenic	50	4	<b>2.1</b>	NS	NS
Barium	1000	2200	<b>940</b>	NS	NS
Beryllium	4	4	< 2.0	NS	NS
Chromium	50	NE	< 5.0	NS	NS
Copper	1300	48	< 25	NS	NS
Lead	15	13	< 5.0	NS	NS
Nickel	100	880	< 25	NS	NS
Vanadium	50	270	< 25	NS	NS
Zinc	5000	123	< 50	NS	NS
<b>Pesticides (ug/L)</b>					
Total Pesticides	NE	NE	ND	NS	NS
<b>PCB Homologs (ug/L)</b>					
Decachlorobiphenyl (PCB-209)	NE	NE	< 0.0049	< 0.0052	< 0.0049
Dichlorobiphenyl	NE	NE	<b>0.0039</b>	<b>0.0076</b>	<b>0.0013</b>
Hexachlorobiphenyl	NE	NE	< 0.0020	< 0.0021	< 0.0020
Monochlorobiphenyl	NE	NE	<b>0.0019</b>	<b>0.0082</b>	<b>0.0013</b>
Pentachlorobiphenyl	NE	NE	< 0.0020	< 0.0021	< 0.0020
Tetrachlorobiphenyl	NE	NE	< 0.0020	< 0.0021	< 0.0020
Trichlorobiphenyl	NE	NE	<b>0.0029</b>	< 0.0010	< 0.00098
Total PCB Homologues	0.5	0.5	<b>0.0087</b>	<b>0.0158</b>	<b>0.0026</b>

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria

SWPC = Surface water protection criteria

*Italicized* criteria values are from DEEP's Recommended Numerical Criteria for

Common Additional Polluting Substances (APS) for purposes of preliminary

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent

mg/L = milligram per Liter

(1) 0.1 mg/l is the current recommended screening criteria and requires CTDEEP approval to implement. 0.25 mg/l is the proposed GWPC.

(2) 100 ug/l is the promulgated GWPC. 70 ug/l is the Drinking Water Action Level set by the Connecticut Department of Public Health.

## **Appendix A Remedial Investigation Report**

RI Report Omitted from Appendices for Online Repository  
Due to Size Constraints - Available as Standalone Document

## Appendix B AOC-1 PCB Figures and Tables

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 A19-SS95 0-0.25 A19 SS95 0-3 8/11/2011 SB33302	AOC-1 A19-SS95 0-0.5 A19-SS95-080411 8/4/2011 SB32875	AOC-1 AA10-SB473 3-4 AA10-SB473 (3-4)71212-1 7/12/2012 SB52747	AOC-1 AA10-SB473 7-8 AA10-SB473 (7-8)71212-1 7/12/2012 SB52747	AOC-1 AA10-SB473 12-13 AA10-SB473 (12-13)71212-1 7/12/2012 SB52747	AOC-1 AA12-SB452 3.5-4 AA12-SB452(3.5-4)- 071012-1 7/10/2012 SB52560	AOC-1 AA12-SB452 6-7 AA12-SB452(6-7)-071012-1 7/10/2012 SB52560	AOC-1 AA12-SB452 7.5-8 AA12-SB452(7.5-8)- 071012-1 7/10/2012 SB52560	AOC-1 AA12-SB452 12-13 AA12-SB452(12-13)- 071012-1 7/10/2012 SB52560	AOC-1 AA13-SB475 1-2 AA13-SB475 (1-2)-071212-1 7/12/2012 SB52747	AOC-1 AA14-SB476 1-2 AA14-SB476 (1-2)-071212-1 7/12/2012 SB52747	AOC-1 AA14-SB476 8-9 AA14-SB476 (8-9)-071212-1 7/12/2012 SB52747	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	678	NS	NS	NS	315	NS	NS	NS	NS	55.7
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	678	NS	NS	NS	315	NS	NS	NS	NS	55.7
Unidentified	NE	NE	NE	NS	NS	NS	678	NS	NS	NS	315	NS	NS	NS	NS	55.7
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	<130 UJ	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	316	NS	NS	780	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	<260 U	NS	NS	<1130 UJ	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	153	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	175	NS	NS	571	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	<2600 UJ	NS	NS	<11300 U	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	<1300 U	NS	NS	<5650 U	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	<1300 U	NS	NS	<5650 U	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	134	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	<260 U	NS	NS	<1130 U	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	287	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	270 J	NS	NS	616	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	475	NS	NS	4010	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	<1300 U	NS	NS	<5650 U	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	<260 U	NS	NS	<1130 U	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	2060	NS	NS	35100	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 UJ	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	147 J	NS	NS	627 J	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	342	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	138	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	290	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	2060	NS	NS	35100	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	622	NS	NS	4640	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	<130 U	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	512	NS	NS	<565 U	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	<130 UJ	NS	NS	<565 U DL	NS	NS	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 A19-SS95 0-0.25 A19 SS95 0-3 8/11/2011 SB33302	AOC-1 A19-SS95 0-0.5 A19-SS95-080411 8/4/2011 SB32875	AOC-1 AA10-SB473 3-4 AA10-SB473 (3-4)71212-1 7/12/2012 SB52747	AOC-1 AA10-SB473 7-8 AA10-SB473 (7-8)71212-1 7/12/2012 SB52747	AOC-1 AA10-SB473 12-13 AA10-SB473 (12-13)71212-1 7/12/2012 SB52747	AOC-1 AA12-SB452 3.5-4 AA12-SB452(3.5-4)- 071012-1 7/10/2012 SB52560	AOC-1 AA12-SB452 6-7 AA12-SB452(6-7)-071012-1 7/10/2012 SB52560	AOC-1 AA12-SB452 7.5-8 AA12-SB452(7.5-8)- 071012-1 7/10/2012 SB52560	AOC-1 AA12-SB452 12-13 AA12-SB452(12-13)- 071012-1 7/10/2012 SB52560	AOC-1 AA13-SB475 1-2 AA13-SB475 (1-2)-071212-1 7/12/2012 SB52747	AOC-1 AA14-SB476 1-2 AA14-SB476 (1-2)-071212-1 7/12/2012 SB52747	AOC-1 AA14-SB476 8-9 AA14-SB476 (8-9)-071212-1 7/12/2012 SB52747	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.8 U	<22.9 U	<b>180</b>	<556 U	<2780 U	<30200 U	<109 U	NS	<63.1 U	<23.1 U	<21.4 U	<b>1980</b>	
Aroclor 1248	NE	NE	NE	<b>6930</b>	<b>654</b>	<21.1 U	<b>12700 J+</b>	<b>65600</b>	<b>856000</b>	<b>5150</b>	NS	<b>164</b>	<b>7050</b>	<b>5680 J</b>	<22.7 U	
Aroclor 1254	NE	NE	NE	<23.8 U	<22.9 U	<21.1 U	<556 U	<2780 U	<30200 U	<109 U	NS	<63.1 U	<23.1 U	<21.4 U	<22.7 U	
Aroclor 1260	NE	NE	NE	<b>181</b>	<22.9 U	<21.1 U	<556 U	<2780 U	<30200 U	<109 U	NS	<63.1 U	<b>89</b>	<b>139 J+</b>	<b>54.4</b>	
Aroclor 1262	NE	NE	NE	<23.8 U	<22.9 U	<21.1 U	<556 U	<2780 U	<30200 U	<109 U	NS	<63.1 U	<23.1 U	<21.4 U	<22.7 U	
Total PCB Aroclors	NE	1000	10000	<b>7111</b>	<b>654</b>	<b>180</b>	<b>12700</b>	<b>65600</b>	<b>856000</b>	<b>5150</b>	NS	<b>164</b>	<b>7139</b>	<b>5819</b>	<b>2034.4</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.

<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

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Orange highlighted cells exceed the 20x rule for GA-PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA-PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l, which also revises the GA PMC from 0.05 mg/kg to 0.01 mg/kg and the GB PMC from 0.5 mg/kg to 0.1 mg/kg, to be protective of human health.

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Polluting Substances Criteria and Alternative Criteria (2005) are indicated by italicized text.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AA14-SS226 0-0.25 AA14-SS226 0-3 8/11/2011 SB33374	AOC-1 AA15-SB416 2-3 AA15-SB416(2-3)-062912-1 6/29/2012 SB52073	AOC-1 AA15-SB416 5-6 AA15-SB416(5-6)-062912-1 6/29/2012 SB52073	AOC-1 AA15-SS78 0-0.5 AA15-SS78-080411 8/4/2011 SB32875	AOC-1 AA15-SS78 0-0.5 AA15-SS78-080511 8/5/2011 SB32945	AOC-1 AA16-SB418 4-5 AA-16-SB418(4-5)070212-1 7/2/2012 SB52216	AOC-1 AA16-SB418 7-8 AA-16-SB418(7-8)070212-1 7/2/2012 SB52216	AOC-1 AA16-SB418 11.5-12.5 AA-16-SB418(11.5-12.5)070212-1 7/2/2012 SB52216	AOC-1 AA16-SS79 0-0.25 AA16SS79 0-3 8/31/2011 SB34491	AOC-1 AA16-SS79 0-0.5 AA16-SS79-080411 8/4/2011 SB32875	AOC-1 AA17-SB261 4-5 AA17-SB261 (4-5)-122811-1 12/28/2011 SB41712	AOC-1 AA17-SB261 5-6 AA17-SB261 (5-6)-122811-1 12/28/2011 SB41712	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.1 U	<23.9 U	<22.5 U	<20.9 U	<20.3 U	<211 U	<23800 U	<21.2 U	<27.9	<21.4 U	<22.9 U	<22.8 U	
Aroclor 1248	NE	NE	NE	<b>916</b>	<23.9 U	<b>911</b>	<b>1340</b>	<b>2360</b>	<b>17500</b>	<b>1410000</b>	<b>170</b>	<b>452</b>	<b>355</b>	<22.9 U	<b>227000</b>	
Aroclor 1254	NE	NE	NE	<23.1 U	<23.9 U	<22.5 U	<20.9 U	<20.3 U	<211 U	<23800 U	<21.2 U	<27.9	<21.4 U	<22.9 U	<22.8 U	
Aroclor 1260	NE	NE	NE	<b>45.2</b>	<23.9 U	<b>27</b>	<b>58.4</b>	<b>131</b>	<211 U	<23800 U	<21.2 U	<27.9	<21.4 U	<22.9 U	<b>3470</b>	
Aroclor 1262	NE	NE	NE	<23.1 U	<23.9 U	<22.5 U	<20.9 U	<20.3 U	<211 U	<23800 U	<21.2 U	<27.9	<21.4 U	<22.9 U	<22.8 U	
Total PCB Aroclors	NE	1000	10000	<b>961</b>	<23.9 U	<b>938</b>	<b>1400</b>	<b>2490</b>	<b>17500</b>	<b>1410000</b>	<b>170</b>	<b>452</b>	<b>355</b>	<22.9 U	<b>230470</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AA17-SB261 10-11 AA17-SB261 (10-11)- 122811-1 12/28/2011 SB41712	AOC-1 AA19-SB264 4-5 AA19-SB264 (4-5)-122811- 1 12/28/2011 SB41712	AOC-1 AA19-SB264 6-7 AA19-SB264 (6-7)-122811- 1 12/28/2011 SB41712	AOC-1 AA19-SB264 7-7.5 AA19-SB264 (7-7.5)- 122811-1 12/28/2011 SB41712	AOC-1 AA19-SB264 12-13 AA19-SB264 (12-13)- 122811-1 12/28/2011 SB41712	AOC-1 AA7-SB460 4-5 AA7-SB460 (4-5)71112-1 7/11/2012 SB52651	AOC-1 AA7-SB460 7-8 AA7-SB460 (7-8)71112-1 7/11/2012 SB52651	AOC-1 AA7-SB460 12-13 AA7-SB460 (12-13)71112- 1 7/11/2012 SB52651	AOC-1 AA7-SS77 0-0.5 AA7-SS77-080411 8/4/2011 SB32875	AOC-1 AA8-SB274 0-1 AA8-SB274(0-1)-122911-1 12/29/2011 SB41766	AOC-1 AA8-SB274 4.5-5 AA8-SB274(4.5-5)-122911- 1 12/29/2011 SB41766	AOC-1 AA8-SB274 6.5-7.5 AA8-SB274(6.5-7.5)- 122911-1 12/29/2011 SB41766	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<555 U	<427 U	<23.7 U	NS	NS	<30.3 U	<44.2 U	<70.9 UJ	<20.7 U	NS	<27.4 U	<b>155</b>	
Aroclor 1248	NE	NE	NE	<555 U	<427 U	<23.7 U	NS	NS	<b>267</b>	<b>314</b>	<b>344 J</b>	<b>201</b>	NS	<b>4110</b>	<22.8 U	
Aroclor 1254	NE	NE	NE	<555 U	<427 U	<23.7 U	NS	NS	<30.3 U	<44.2 U	<70.9 UJ	<20.7 U	NS	<27.4 U	<22.8 U	
Aroclor 1260	NE	NE	NE	<555 U	<427 U	<23.7 U	NS	NS	<30.3 U	<44.2 U	<70.9 UJ	<20.7 U	NS	<b>187</b>	<22.8 U	
Aroclor 1262	NE	NE	NE	<555 U	<427 U	<23.7 U	NS	NS	<30.3 U	<44.2 U	<70.9 UJ	<20.7 U	NS	<27.4 U	<22.8 U	
Total PCB Aroclors	NE	1000	10000	<555 U	<427 U	<23.7 U	NS	NS	<b>267</b>	<b>314</b>	<b>344</b>	<b>201</b>	NS	<b>4300</b>	<b>155</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.000211 U	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.000211 U	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.000211 U	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.000211 U	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.85 U	NS	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.16 U	NS	NS	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<i>&lt;9.85 U</i>	NS	NS	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.16 U	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<24.6 U	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.16 U	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.85 U	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.16 U	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.85 U	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.16	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.85	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.

<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AA8-SS317 0-0.25 AA8SS317 0-3 8/31/2011 SB34491	AOC-1 AB12-SB471 4-5 AB12-SB471 (4-5)71212-1 7/12/2012 SB52747	AOC-1 AB13-SB467 4-5 AB13-SB467 (4-5)71112-1 7/11/2012 SB52747	AOC-1 AB13-SB467 8-9 AB13-SB467 (8-9)71112-1 7/11/2012 SB52747	AOC-1 AB13-SB467 8-9 AB13-SB467 (8-9)71112-2 7/11/2012 SB52747	AOC-1 AB14-SB462 3-4 AB14-SB462 (3-4)71112-1 7/11/2012 SB52651	AOC-1 AB14-SB462 9-10 AB14-SB462 (9-10)71112-1 7/11/2012 SB52651	AOC-1 AB14-SB462 10-11 AB14-SB462 (10-11)71112-1 7/11/2012 SB52651	AOC-1 AB14-SB462 13-14 AB14-SB462 (13-14)71112-1 7/11/2012 SB52651	AOC-1 AB15-SB415 3-4 AB15-SB415(3-4)-062912-1 6/29/2012 SB52073	AOC-1 AB15-SB415 9-10 AB15-SB415(9-10)-062912-1 6/29/2012 SB52073	AOC-1 AB15-SB415 11.5-12.5 AB15-SB415(11.5-12.5)-062912-1 6/29/2012 SB52073	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	2690	2650	NS	NS	729	NS	NS	2210	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	2690	2650	NS	NS	729	NS	NS	2210	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	2690	2650	NS	NS	729	NS	NS	2210	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	159	NS	NS	NS	<1250 U	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	819	NS	NS	NS	<1250 U	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U DL	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 UJ	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	431	NS	NS	NS	10400	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	<238 U	NS	NS	NS	<2490 UJ	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	235	NS	NS	NS	1400	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	<11900 U	NS	NS	NS	<24900 U	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	<1190 U	NS	NS	NS	<12500 U	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	<1190 U	NS	NS	NS	<12500 U	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U DL	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	812	NS	NS	NS	<2490 U	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	707	NS	NS	NS	<1250 U	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	398	NS	NS	NS	4150	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	728	NS	NS	NS	7140	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<1190 U	NS	NS	NS	<12500 U	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	<238 U	NS	NS	NS	<2490 U	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	420	NS	NS	NS	11200	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	2930	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	1660	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	311 J	NS	NS	NS	<1250 U	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	372	NS	NS	NS	1710	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	1990	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	550	NS	NS	NS	<1250 U	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	420	NS	NS	NS	11200	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	1040	NS	NS	NS	7140	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<119 U	NS	NS	NS	<1250 U	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	281	NS	NS	NS	<1250 U	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	<119 UJ	NS	NS	NS	<1250 UJ DL	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AA8-SS317 0-0.25 AA8SS317 0-3 8/31/2011 SB34491	AOC-1 AB12-SB471 4-5 AB12-SB471 (4-5)71212-1 7/12/2012 SB52747	AOC-1 AB13-SB467 4-5 AB13-SB467 (4-5)71112-1 7/11/2012 SB52747	AOC-1 AB13-SB467 8-9 AB13-SB467 (8-9)71112-1 7/11/2012 SB52747	AOC-1 AB13-SB467 8-9 AB13-SB467 (8-9)71112-2 7/11/2012 SB52747	AOC-1 AB14-SB462 3-4 AB14-SB462 (3-4)71112-1 7/11/2012 SB52651	AOC-1 AB14-SB462 9-10 AB14-SB462 (9-10)71112-1 7/11/2012 SB52651	AOC-1 AB14-SB462 10-11 AB14-SB462 (10-11)71112-1 7/11/2012 SB52651	AOC-1 AB14-SB462 13-14 AB14-SB462 (13-14)71112-1 7/11/2012 SB52651	AOC-1 AB15-SB415 3-4 AB15-SB415(3-4)-062912-1 6/29/2012 SB52073	AOC-1 AB15-SB415 9-10 AB15-SB415(9-10)-062912-1 6/29/2012 SB52073	AOC-1 AB15-SB415 11.5-12.5 AB15-SB415(11.5-12.5)-062912-1 6/29/2012 SB52073	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.2	<b>105000</b>	<20.7 U	<b>1060000</b>	<b>790000</b>	<43.3 U	<24100 U	NS	<23.1 U	<41.3 U	<2550 U	<21.4 U	
Aroclor 1248	NE	NE	NE	<b>7130</b>	<2310 U	<b>2120</b>	<23400 U	<23600 U	<b>1890</b>	<b>263000</b>	NS	<b>536</b>	<41.3 U	<b>146000</b>	<b>1040</b>	
Aroclor 1254	NE	NE	NE	<23.2	<2310 U	<20.7 U	<23400 U	<23600 U	<43.3 U	<24100 U	NS	<23.1 U	<20.6 U	<2550 U	<21.4 U	
Aroclor 1260	NE	NE	NE	<23.2	<2310 U	<b>95.2</b>	<23400 U	<23600 U	<b>67.1</b>	<24100 U	NS	<23.1 U	<20.6 U	<2550 U	<21.4 U	
Aroclor 1262	NE	NE	NE	<b>113</b>	<2310 U	<20.7 U	<23400 U	<23600 U	<43.3 U	<24100 U	NS	<23.1 U	<20.6 U	<2550 U	<21.4 U	
Total PCB Aroclors	NE	1000	10000	<b>7243</b>	<b>105000</b>	<b>2215.2</b>	<b>1060000</b>	<b>790000</b>	<b>1957.1</b>	<b>263000</b>	NS	<b>536</b>	<41.3 U	<b>146000</b>	<b>1040</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AB15-SS80 0-0.25 AB15 SS80 0-3 8/11/2011 SB33302	AOC-1 AB15-SS80 0-0.5 AB15-SS80-080411 8/4/2011 SB32875	AOC-1 AB16-SB417 1-2 AB16-SB417(1-2)-062912-1 6/29/2012 SB52073	AOC-1 AB16-SB417 7.2-8.5 AB16-SB417(7.2-8.5)- 062912-1 6/29/2012 SB52073	AOC-1 AB16-SB417 11.5-12.5 AB16-SB417(11.5-12.5)- 062912-1 6/29/2012 SB52073	AOC-1 AB16-SS81 0-0.25 AB16 SS81 0-3 8/11/2011 SB33302	AOC-1 AB16-SS81 0-0.5 AB16-SS81-080411 8/4/2011 SB32875	AOC-1 AB17-SB385 3-4 AB17-SB385 (3-4)-062512-1 6/25/2012 SB51819	AOC-1 AB17-SB385 6-7 AB17-SB385 (6-7)-062512-1 6/25/2012 SB51819	AOC-1 AB17-SB385 11-12 AB17-SB385 (11-12)- 062512-1 6/25/2012 SB51819	AOC-1 AB18-SB383 3-4 AB18-SB383 (3-4)-062512-1 6/25/2012 SB51792	AOC-1 AB18-SB383 5.5-6.5 AB18-SB383 (5.5-6.5)- 062512-1 6/25/2012 SB51792	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.0 U	<21.0 U	<21.6 U	<23900 U	<205 U	<23.7 U	<21.2 U	<21.3 U	<21.0 U	<22.9 U	<22.9 U	<22.7 U	
Aroclor 1248	NE	NE	NE	<b>1360</b>	<b>1090</b>	<21.6 U	<b>967000</b>	<b>8140</b>	<b>596</b>	<b>813</b>	<b>270</b>	<21.0 U	<22.9 U	<b>2290</b>	<b>1680</b>	
Aroclor 1254	NE	NE	NE	<23.0 U	<21.0 U	<21.6 U	<23900 U	<205 U	<23.7 U	<21.2 U	<21.3 U	<21.0 U	<22.9 U	<22.9 U	<22.7 U	
Aroclor 1260	NE	NE	NE	<b>116</b>	<b>56.6</b>	<21.6 U	<23900 U	<205 U	<b>39.8</b>	<21.2 U	<21.3 U	<21.0 U	<22.9 U	<b>64.2</b>	<22.7 U	
Aroclor 1262	NE	NE	NE	<23.0 U	<21.0 U	<21.6 U	<23900 U	<205 U	<23.7 U	<21.2 U	<21.3 U	<21.0 U	<22.9 U	<22.9 U	<22.7 U	
Total PCB Aroclors	NE	1000	10000	<b>1480</b>	<b>1150</b>	<21.6 U	<b>967000</b>	<b>8140</b>	<b>636</b>	<b>813</b>	<b>270</b>	<21.0 U	<22.9 U	<b>2350</b>	<b>1680</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	<b>7.36</b>	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	<b>8.17 J</b>	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	<b>69.9</b>	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	<5.87 U	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	<b>7.29</b>	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	<b>15.46</b>	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	<b>7.36</b>	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AB18-SB383 7-8 AB18-SB383 (7-8)-062512 1 6/25/2012 SB51792	AOC-1 AB19-SB71 0-1 AB19-SB71 0-1 8/10/2011 SB33209	AOC-1 AB19-SB71 1-2 AB19-SB71 1-2 8/10/2011 SB33209	AOC-1 AB19-SB71 2-3 AB19-SB71 2-3 8/10/2011 SB33209	AOC-1 AB19-SB71 3-4 AB19-SB71 3-4 8/10/2011 SB33209	AOC-1 AB19-SB71 4-4.4 AB19-SB71 4-4.4 8/10/2011 SB33209	AOC-1 AB19-SB71 5-6 AB19-SB71 5-6 8/10/2011 SB33209	AOC-1 AB19-SB71 6-7 AB19-SB71 6-7 8/10/2011 SB33209	AOC-1 AB19-SB71 7-8 AB19-SB71 7-8 8/10/2011 SB33209	AOC-1 AB19-SB71 8-8.5 AB19-SB71 8-8.5 8/10/2011 SB33209	AOC-1 AB19-SB71 10-11 AB19-SB71 10-11 8/10/2011 SB33209	AOC-1 AB19-SB71 12-13 AB19-SB71 12-13 8/10/2011 SB33209
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<22.4 U	<21.0 U	<21.7 U	<22.4 U	<22.8 U	<23.0 U	<20.7 U	<20.3 U	<21.2 U	NS	NS	<34.4 U
Aroclor 1248	NE	NE	NE	<22.4 U	<21.0 U	<21.7 U	<b>566</b>	<b>9270</b>	<23.0 U	<b>2150</b>	<20.3 U	<21.2 U	NS	NS	<34.4 U
Aroclor 1254	NE	NE	NE	<22.4 U	<21.0 U	<21.7 U	<22.4 U	<22.8 U	<23.0 U	<20.7 U	<20.3 U	<21.2 U	NS	NS	<34.4 U
Aroclor 1260	NE	NE	NE	<22.4 U	<21.0 U	<21.7 U	<22.4 U	<b>221</b>	<23.0 U	<b>38.4</b>	<20.3 U	<21.2 U	NS	NS	<34.4 U
Aroclor 1262	NE	NE	NE	<22.4 U	<21.0 U	<21.7 U	<22.4 U	<22.8 U	<23.0 U	<20.7 U	<20.3 U	<21.2 U	NS	NS	<34.4 U
Total PCB Aroclors	NE	1000	10000	<22.4 U	<21.0 U	<21.7 U	<b>566</b>	<b>9491</b>	<23.0 U	<b>2190</b>	<20.3 U	<21.2 U	NS	NS	<34.4 U
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<b>9.19</b>	NS	NS	<b>19</b>	NS	NS	<b>36.2</b>	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<b>7.94</b>	NS	NS	<5.58 U	NS	NS	<b>46.6</b>	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<8.95 U	NS	NS	<8.93 U	NS	NS	<15.6 U	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>12.5 J</b>	NS	NS	<b>27.7 J</b>	NS	NS	<9.77 U	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>126</b>	NS	NS	<b>4170</b>	NS	NS	<39.1 U	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<5.60 U	NS	NS	<5.58 U	NS	NS	<9.77 U	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<8.95 U	NS	NS	<8.93 U	NS	NS	<15.6 U	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>24.5 J</b>	NS	NS	<b>27.0 J</b>	NS	NS	<9.77 U	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<8.95 U	NS	NS	<8.93 U	NS	NS	<15.6 U	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>37</b>	NS	NS	<b>54.7</b>	NS	NS	<9.77 U	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<b>17.13</b>	NS	NS	<b>19</b>	NS	NS	<b>82.8</b>	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.9 U	<21.3 U	<24.0 U	<21.8 U	<20.4 U	<29.8 U	NS	<26.2 U	<23.2 U	<2180 U	<2640 U	<2690 U	
Aroclor 1248	NE	NE	NE	<20.9 U	<b>222</b>	<24.0 U	<b>889 J</b>	<20.4 U	<29.8 U	NS	<26.2 U	<b>6650</b>	<b>52800</b>	<b>21800</b>	<b>24500</b>	
Aroclor 1254	NE	NE	NE	<20.9 U	<21.3 U	<24.0 U	<21.8 U	<20.4 U	<29.8 U	NS	<26.2 U	<23.2 U	<2180 U	<2640 U	<2690 U	
Aroclor 1260	NE	NE	NE	<20.9 U	<21.3 U	<b>87.5</b>	<b>29.4</b>	<20.4 U	<29.8 U	NS	<26.2 U	<b>153</b>	<2180 U	<2640 U	<2690 U	
Aroclor 1262	NE	NE	NE	<20.9 U	<21.3 U	<24.0 U	<21.8 U	<20.4 U	<29.8 U	NS	<26.2 U	<23.2 U	<2180 U	<2640 U	<2690 U	
Total PCB Aroclors	NE	1000	10000	<20.9 U	<b>222</b>	<b>87.5</b>	<b>918</b>	<20.4 U	<29.8 U	NS	<26.2 U	<b>6803</b>	<b>52800</b>	<b>21800</b>	<b>24500</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS						
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS						
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS						
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS						
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	<9.16 U	NS	NS	NS	NS						
4,4-DDE (p,p)	NE	NE	NE	NS	NS	<b>29.5</b>	NS	NS	NS	NS						
4,4-DDT (p,p)	3	1800	17000	NS	NS	<9.16 U	NS	NS	NS	NS						
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS						
Chlordane	NE	490	2200	NS	NS	<b>64.2 J</b>	NS	NS	NS	NS						
Dieldrin	7	38	360	NS	NS	<5.72 U	NS	NS	NS	NS						
Endrin (40)	40	20000	610000	NS	NS	<9.16 U	NS	NS	NS	NS						
gamma-Chlordane	NE	NE	NE	NS	NS	<b>69.5</b>	NS	NS	NS	NS						
Methoxychlor	800	340000	10000000	NS	NS	<9.16 U	NS	NS	NS	NS						
Total Chlordanes	66	490	2200	NS	NS	<b>133.7</b>	NS	NS	NS	NS						
Total DDx	NE	NE	NE	NS	NS	<b>29.5</b>	NS	NS	NS	NS						
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS						
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS						
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS						

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	1010	NS	1170 J+	NS	NS	1390 J	2870 J	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	1010	NS	1170 J+	NS	NS	1390 J	2870 J	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	1010	NS	1170 J+	NS	NS	1390 J	2870 J	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	272 J	160 J	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	<123 UJ	<103 UJ	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	1520 J	678 J	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	<246 U	<207 U	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	127	<103 U	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	600 J	261 J	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	<2460 UJ	<2070 UJ	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	<1230 U	<1030 U	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	<1230 U	<1030 U	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	<403 U	<403 U	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	171	123	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	<246 U	<207 U	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	644	464	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	917 J	555 J	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	189 J	<103 UJ	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	2920 J	1550 J	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<1230 U	<1030 U	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	<246 U	<207 U	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	1450 J	695 J	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	415 J	188 J	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	375 J	214 J	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	681 J	375 J	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	311 J	186 J	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	495 J	183 J	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	160	<103 U	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	<123 U	<103 U	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	1450	1060	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	1450	695	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	3600	1930	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	186 J	<103 UJ	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	426	275	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	<123 UJ	<103 UJ	NS	NS	NS	NS	NS





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Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AC12-SB466 3.5-4 AC12-SB466 (3.5-4)71112-1 7/11/2012 SB52747	AOC-1 AC12-SB466 5.5-6 AC12-SB466 (5.5-6)71112-1 7/11/2012 SB52747	AOC-1 AC13-SB468 4-5 AC13-SB468 (4-5)71112-1 7/11/2012 SB52747	AOC-1 AC13-SB468 7-8 AC13-SB468 (7-8)71112-1 7/11/2012 SB52747	AOC-1 AC13-SB468 13-14 AC13-SB468 (13-14)71112-1 7/11/2012 SB52747	AOC-1 AC14-SB464 4-5 AC14-SB464 (4-5)71112-1 7/11/2012 SB52651	AOC-1 AC14-SB464 8-9 AC14-SB464 (8-9)71112-1 7/11/2012 SB52651	AOC-1 AC14-SB464 8-9 AC14-SB464 (8-9)71112-2 7/11/2012 SB52651	AOC-1 AC14-SS227 0-0.25 AC14-SS227 0-3 8/11/2011 SB33374	AOC-1 AC15-SB260 0-1 AC15-SB260 (0-1)-122711-1 12/27/2011 SB41712	AOC-1 AC15-SB260 4-5 AC15-SB260 (4-5)-122711-1 12/27/2011 SB41712	AOC-1 AC15-SB260 6-7 AC15-SB260 (6-7)-122711-1 12/27/2011 SB41712	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<2350 U	<b>23400</b>	<23.3 U	<b>562000</b>	<b>488</b>	<20.9 U	<b>127000 J</b>	<b>741000 J</b>	<22.6 U	NS	<21.5 U	<23.1 U	
Aroclor 1248	NE	NE	NE	<b>158000</b>	<259 U	<b>3560</b>	<25700 U	<55.8 U	<b>3220</b>	<23200 U	<21200 U	<b>1860</b>	NS	<b>642</b>	<b>296</b>	
Aroclor 1254	NE	NE	NE	<2350 U	<259 U	<23.3 U	<25700 U	<55.8 U	<20.9 U	<23200 U	<21200 U	<22.6 U	NS	<21.5 U	<23.1 U	
Aroclor 1260	NE	NE	NE	<b>3290</b>	<b>569</b>	<b>88.5</b>	<25700 U	<55.8 U	<b>67.8</b>	<23200 U	<21200 U	<b>63</b>	NS	<b>26.9</b>	<23.1 U	
Aroclor 1262	NE	NE	NE	<2350 U	<259 U	<23.3 U	<25700 U	<55.8 U	<20.9 U	<23200 U	<21200 U	<22.6 U	NS	<21.5 U	<23.1 U	
Total PCB Aroclors	NE	1000	10000	<b>161290</b>	<b>23969</b>	<b>3648.5</b>	<b>562000</b>	<b>488</b>	<b>3290</b>	<b>127000</b>	<b>741000</b>	<b>1920</b>	NS	<b>669</b>	<b>296</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.01 U	NS	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.63 U	NS	NS	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<i>&lt;9.01 U</i>	NS	NS	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.63 U	NS	NS	
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<22.5 U	NS	NS	
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.63 U	NS	NS	
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.01 UJ	NS	NS	
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.63 U	NS	NS	
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.01 U	NS	NS	
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.63	NS	NS	
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.01	NS	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP



**Soil Analytical Data  
Greenwich High School  
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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AC15-SB260 9.5-11.5 AC15-SB260 (9.5-11.5)- 122711-1 12/27/2011 SB41712	AOC-1 AC15-SS83 0-0.25 AC15 SS83 0-3 8/11/2011 SB33302	AOC-1 AC15-SS83 0-0.5 AC15-SS83-080411 8/4/2011 SB32875	AOC-1 AC16-SB492 2-3 AC16-SB492 (2-3)-071312- 1 7/13/2012 SB52798	AOC-1 AC16-SB492 8.2-9 AC16-SB492 (8.2-9)- 071312-1 7/13/2012 SB52798	AOC-1 AC16-SB492 13-14 AC16-SB492 (13-14)- 071312-1 7/13/2012 SB52798	AOC-1 AC16-SS84 0-0.25 AC16 SS84 0-3 8/11/2011 SB33302	AOC-1 AC16-SS84 0-0.5 AC16-SS84-080411 8/4/2011 SB32875	AOC-1 AC17-SB262 4-5 AC17-SB262 (4-5)-122811- 1 12/28/2011 SB41712	AOC-1 AC17-SB262 5-6 AC17-SB262 (5-6)-122811- 1 12/28/2011 SB41712	AOC-1 AC17-SB262 10-11 AC17-SB262 (10-11)- 122811-1 12/28/2011 SB41712	AOC-1 AC19-SB76 0-1 AC19-SB76 0-1 8/10/2011 SB33209	
<b>VOC-SPLP (ug/L)</b>																
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>																
2-Methylnaphthalene	560	270000	1000000	<2020 U	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 U	NS	NS	NS
Acenaphthene	8400	1000000	2500000	<2020 U	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 U	NS	NS	NS
Acenaphthylene	8400	1000000	2500000	<2020 UJ	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 UJ	NS	NS	NS
Anthracene	40000	1000000	2500000	<2020 U	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 U	NS	NS	NS
Benzo(a)anthracene	1000	1000	7800	4210	NS	NS	NS	404	NS	NS	NS	NS	<367 U	NS	NS	NS
Benzo(a)pyrene	1000	1000	1000	5470	NS	NS	NS	368	NS	NS	NS	NS	<367 U	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	7800	5330	NS	NS	NS	300	NS	NS	NS	NS	<367 U	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	78000	2250	NS	NS	NS	230	NS	NS	NS	NS	<367 U	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	78000	3490	NS	NS	NS	300	NS	NS	NS	NS	<367 U	NS	NS	NS
Chrysene	1000	84000	780000	4170	NS	NS	NS	363	NS	NS	NS	NS	<367 U	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	1000	<2020 U	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 U	NS	NS	NS
Fluoranthene	5600	1000000	2500000	6730	NS	NS	NS	886	NS	NS	NS	NS	<367 U	NS	NS	NS
Fluorene	5600	1000000	2500000	<2020 U	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 U	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	7800	2450	NS	NS	NS	226	NS	NS	NS	NS	<367 U	NS	NS	NS
Naphthalene	5600	1000000	2500000	<2020 U	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 U	NS	NS	NS
Phenanthrene	4000	1000000	2500000	5170	NS	NS	NS	634	NS	NS	NS	NS	<367 U	NS	NS	NS
Pyrene	4000	1000000	2500000	7400	NS	NS	NS	715	NS	NS	NS	NS	<367 U	NS	NS	NS
<b>SVOCs (ug/Kg)</b>																
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<734 U	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<734 U	NS	NS	NS
1-Methylnaphthalene	200	21000	200000	<2020 U	NS	NS	NS	<191 U	NS	NS	NS	NS	<367 U	NS	NS	NS
2,4-Dichlorophenol	1000	200000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS	NS
2,4-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS	NS
2,6-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS	NS
2-Chlorophenol	1000	340000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS	NS
3,3-Dichlorobenzidine	200	1400	13000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<734 UJ	NS	NS	NS
Benzidine	200	200	200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<734 UJ	NS	NS	NS
Bis(2-chloroethyl)ether	1000	1000	5200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS	NS
Di-n-octyl phthalate	2000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<734 UJ	NS	NS	NS

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<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS
Methanamine, n-methyl-n-nitrosoc	NE	200	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<367 U	NS	NS
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<734 U	NS	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	<0.105 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	<0.0526 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	<0.105 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	<b>0.0558 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	<b>0.0558</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	<b>7.13 J-</b>	NS	NS	<5.29 UJ	<5.71 UJ	<5.05 UJ	NS	NS	NS	NS	<4.83 UJ	<5.58 UJ	NS
Arsenic	NE	10	10	<b>12.6 J</b>	<b>3.53</b>	NS	<3.18 UJ	<8.57 UJ	<3.03 UJ	<b>4.82</b>	NS	NS	NS	<b>2.83 J</b>	<b>1.76 J</b>	NS
Barium	NE	4700	140000	<b>559 J</b>	NS	NS	<b>72.3</b>	<b>159</b>	<b>50.7</b>	NS	NS	NS	NS	<b>338 J</b>	<b>55.0 J</b>	NS
Beryllium	NE	2	2	<0.592 U	NS	NS	<0.529 U	<0.571 U	<0.505 U	NS	NS	NS	NS	<b>0.517</b>	<0.558 U	NS
Cadmium	NE	34	1000	<b>6.58 J</b>	<b>0.702</b>	NS	<0.529 U	<b>0.935</b>	<0.505 U	<b>0.673</b>	NS	NS	NS	<b>1.61 J</b>	<b>0.670 J</b>	NS
Chromium	NE	NE	NE	<b>54.0 J</b>	<b>10.7</b>	NS	<b>15.4</b>	<b>31.4</b>	<b>13.5</b>	<b>20</b>	NS	NS	NS	<b>91.8 J</b>	<b>16.6 J</b>	NS
Copper	NE	2500	76000	<b>223 J</b>	NS	NS	<b>15.7 J</b>	<b>40.2 J</b>	<b>11.1 J</b>	NS	NS	NS	NS	<b>29.0 J</b>	<b>13.5 J</b>	NS
Lead	NE	400	1000	<b>883 J</b>	<b>8.8</b>	NS	<b>5.26 J</b>	<b>131 J</b>	<b>10.3 J</b>	<b>52</b>	NS	NS	NS	<b>18.9 J</b>	<b>12.0 J</b>	NS
Mercury	NE	20	610	<1.06 U	<0.0319 U	NS	<0.0324 UJ	<b>0.104 J</b>	<0.0305 UJ	<b>0.143</b>	NS	NS	NS	<0.988 U	<0.986 U	NS
Nickel	NE	1400	7500	<b>39.8 J</b>	NS	NS	<b>10.2 J</b>	<b>28.0 J</b>	<b>10.8 J</b>	NS	NS	NS	NS	<b>41.8 J</b>	<b>16.7 J</b>	NS
Selenium	NE	340	10000	<1.78 U	NS	NS	<1.59 UJ	<1.71 UJ	<1.52 UJ	NS	NS	NS	NS	<1.45 U	<1.68 U	NS
Silver	NE	340	10000	<b>4.38 J</b>	NS	NS	<1.59 U	<1.71 U	<1.52 U	NS	NS	NS	NS	<b>2.56 J</b>	<1.68 UJ	NS
Thallium	NE	5.4	160	<7.10 U	NS	NS	<3.18 U	<3.43 U	<3.03 U	NS	NS	NS	NS	<4.35 U	<3.35 U	NS
Vanadium	NE	470	14000	<b>58.4 J</b>	NS	NS	<b>22</b>	<b>32</b>	<b>14.9</b>	NS	NS	NS	NS	<b>58.9 J</b>	<b>17.3 J</b>	NS
Zinc	NE	20000	610000	<b>1250 J</b>	NS	NS	<b>31</b>	<b>1090</b>	<b>23.5</b>	NS	NS	NS	NS	<b>69.3 J</b>	<b>30.2 J</b>	NS
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	<0.0105 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	<0.0040 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	<b>0.158</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	<0.0025 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	<0.0075 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	<0.0460 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	<1.24 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.998 UJ	NS	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AC15-SB260 9.5-11.5 AC15-SB260 (9.5-11.5)- 122711-1 12/27/2011 SB41712	AOC-1 AC15-SS83 0-0.25 AC15 SS83 0-3 8/11/2011 SB33302	AOC-1 AC15-SS83 0-0.5 AC15-SS83-080411 8/4/2011 SB32875	AOC-1 AC16-SB492 2-3 AC16-SB492 (2-3)-071312- 1 7/13/2012 SB52798	AOC-1 AC16-SB492 8.2-9 AC16-SB492 (8.2-9)- 071312-1 7/13/2012 SB52798	AOC-1 AC16-SB492 13-14 AC16-SB492 (13-14)- 071312-1 7/13/2012 SB52798	AOC-1 AC16-SS84 0-0.25 AC16 SS84 0-3 8/11/2011 SB33302	AOC-1 AC16-SS84 0-0.5 AC16-SS84-080411 8/4/2011 SB32875	AOC-1 AC17-SB262 4-5 AC17-SB262 (4-5)-122811- 1 12/28/2011 SB41712	AOC-1 AC17-SB262 5-6 AC17-SB262 (5-6)-122811- 1 12/28/2011 SB41712	AOC-1 AC17-SB262 10-11 AC17-SB262 (10-11)- 122811-1 12/28/2011 SB41712	AOC-1 AC19-SB76 0-1 AC19-SB76 0-1 8/10/2011 SB33209	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.0 U	<20.9 U	<20.6 U	<21.6 U	<21.8 U	<19.6 U	<24.0 U	<21.4 U	<22.2 U	<22.1 U	<20.7 U	<19.5 U	
Aroclor 1248	NE	NE	NE	<b>81300</b>	<b>272</b>	<b>436</b>	<b>34.5</b>	<b>6180</b>	<19.6 U	<b>3210</b>	<b>528</b>	<22.2 U	<b>277</b>	<20.7 U	<19.5 U	
Aroclor 1254	NE	NE	NE	<23.0 U	<20.9 U	<20.6 U	<21.6 U	<21.8 U	<19.6 U	<24.0 U	<21.4 U	<22.2 U	<22.1 U	<20.7 U	<19.5 U	
Aroclor 1260	NE	NE	NE	<b>1270</b>	<20.9 U	<20.6 U	<21.6 U	<b>110</b>	<19.6 U	<b>142</b>	<21.4 U	<22.2 U	<b>92.7</b>	<20.7 U	<19.5 U	
Aroclor 1262	NE	NE	NE	<23.0 U	<20.9 U	<20.6 U	<21.6 U	<21.8 U	<19.6 U	<24.0 U	<21.4 U	<22.2 U	<22.1 U	<20.7 U	<19.5 U	
Total PCB Aroclors	NE	1000	10000	<b>82570</b>	<b>272</b>	<b>436</b>	<b>34.5</b>	<b>6290</b>	<19.6 U	<b>3350</b>	<b>528</b>	<22.2 U	<b>370</b>	<20.7 U	<19.5 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	<0.0002 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	<b>0.0133</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	<0.0002 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	<b>0.0133</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<9.84 U	<8.38 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<6.15 U	<5.24 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<i>&lt;9.84 U</i>	<i>&lt;8.38 U</i>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<6.15 U	<5.24 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	<24.6 U	<20.9 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	<6.15 U	<5.24 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	<9.84 UJ	<8.38 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<6.15 U	<5.24 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	<9.84 U	<8.38 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	<6.15	<5.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	<9.84	<8.38	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Yellow highlighted cells exceed GA\_PMC-SPLP.

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NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AC19-SB76 1-2 AC19-SB76 1-2 8/10/2011 SB33209	AOC-1 AC19-SB76 2-3 AC19-SB76 2-3 8/10/2011 SB33209	AOC-1 AC19-SB76 3-4 AC19-SB76 3-4 8/10/2011 SB33209	AOC-1 AC19-SB76 5-6 AC19-SB76 5-6 8/10/2011 SB33209	AOC-1 AC19-SB76 6-7 AC19-SB76 6-7 8/10/2011 SB33209	AOC-1 AC19-SB76 7-8 AC19-SB76 7-8 8/10/2011 SB33209	AOC-1 AC19-SB76 8-9 AC19-SB76 8-9 8/10/2011 SB33209	AOC-1 AC19-SB76 10-11 AC19-SB76 10-11 8/10/2011 SB33209	AOC-1 AC19-SB76 11-12 AC19-SB76 11-12 8/10/2011 SB33209	AOC-1 AC19-SB76 16-17 AC19-SB76 16-17 8/10/2011 SB33209	AOC-1 AC21-SB349 4.5-5 AC21-SB349(4.5-5)- 040912-1 4/9/2012 SB46864	AOC-1 AC21-SB349 7-8 AC21-SB349(7-8)-040912- 1 4/9/2012 SB46864
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<20.3 U	<20.5 U	<23.9 U	<20.9 U	<21.2 U	<21.3 U	<20.6 U	<21.9 U	<21.3 U	<22.1 U	<22.8 U	<21.8 U
Aroclor 1248	NE	NE	NE	<20.3 U	<20.5 U	<b>639</b>	<b>9960</b>	<21.2 U	<21.3 U	<20.6 U	<b>443</b>	<21.3 U	<22.1 U	<114 U	<b>41.4</b>
Aroclor 1254	NE	NE	NE	<20.3 U	<20.5 U	<23.9 U	<20.9 U	<21.2 U	<21.3 U	<20.6 U	<21.9 U	<21.3 U	<22.1 U	<114 U	<21.8 U
Aroclor 1260	NE	NE	NE	<20.3 U	<20.5 U	<23.9 U	<b>296</b>	<21.2 U	<21.3 U	<20.6 U	<21.9 U	<21.3 U	<22.1 U	<22.8 U	<21.8 U
Aroclor 1262	NE	NE	NE	<20.3 U	<20.5 U	<23.9 U	<20.9 U	<21.2 U	<21.3 U	<20.6 U	<21.9 U	<21.3 U	<22.1 U	<22.8 U	<21.8 U
Total PCB Aroclors	NE	1000	10000	<20.3 U	<20.5 U	<b>639</b>	<b>10256</b>	<21.2 U	<21.3 U	<20.6 U	<b>443</b>	<21.3 U	<22.1 U	<114 U	<b>41.4</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS							
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS							
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS							
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS							
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS							
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS							
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS							
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS							
Chlordane	NE	490	2200	NS	NS	NS	NS	NS							
Dieldrin	7	38	360	NS	NS	NS	NS	NS							
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS							
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS							
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS							
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS							
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS							
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS							
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS							
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS							

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AC21-SB349 11-12 AC21-SB349(11-12)- 040912-1 4/9/2012 SB46864	AOC-1 AC8-SB459 4-5 AC8-SB459 (4-5)71112-1 7/11/2012 SB52651	AOC-1 AC8-SB459 7-8 AC8-SB459 (7-8)71112-1 7/11/2012 SB52651	AOC-1 AC8-SB459 7-8 AC8-SB459 (7-8)71112-2 7/11/2012 SB52651	AOC-1 AC8-SB459 12-13 AC8-SB459 (12-13)71112- 1 7/11/2012 SB52651	AOC-1 AC8-SS82 0-0.25 AC8 SS82 0-3 8/11/2011 SB33302	AOC-1 AC8-SS82 0-0.5 AC8-SS82-080411 8/4/2011 SB32875	AOC-1 AD13-SB470 3-4 AD13-SB470 (3-4)71212-1 7/12/2012 SB52747	AOC-1 AD14-SB465 4-5 AD14-SB465 (4-5)71112-1 7/11/2012 SB52651	AOC-1 AD14-SB465 6-7 AD14-SB465 (6-7)71112-1 7/11/2012 SB52651	AOC-1 AD14-SB465 13-14 AD14-SB465 (13- 14)71112-1 7/11/2012 SB52651	AOC-1 AD15-SB363 2-2.5 AD15-SB363 (2-2.5)- 041212-1 4/12/2012 SB47192	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.5 U	<22.6 U	<42.3 U	<43.0 U	<46.0 U	<22.6 U	<22.1 U	<21.6 U	<b>159000</b>	<b>6410</b>	<b>236</b>	<221 U	
Aroclor 1248	NE	NE	NE	<21.5 U	<b>708</b>	<b>558 J</b>	<b>275 J</b>	<b>396</b>	<b>555</b>	<b>8230</b>	<b>4140</b>	<21100 U	<121 U	<61.2 U	<221 U	
Aroclor 1254	NE	NE	NE	<21.5 U	<22.6 U	<42.3 U	<43.0 U	<46.0 U	<22.6 U	<22.1 U	<21.6 U	<21100 U	<121 U	<61.2 U	<221 U	
Aroclor 1260	NE	NE	NE	<21.5 U	<22.6 U	<42.3 U	<43.0 U	<46.0 U	<22.6 U	<b>163</b>	<b>187</b>	<21100 U	<b>229</b>	<61.2 U	<22.1 U	
Aroclor 1262	NE	NE	NE	<21.5 U	<22.6 U	<42.3 U	<43.0 U	<46.0 U	<22.6 U	<22.1 U	<21.6 U	<21100 U	<121 U	<61.2 U	<22.1 U	
Total PCB Aroclors	NE	1000	10000	<21.5 U	<b>708</b>	<b>558</b>	<b>275</b>	<b>396</b>	<b>555</b>	<b>8393</b>	<b>4327</b>	<b>159000</b>	<b>6640</b>	<b>236</b>	<221 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<b>2100000</b>	<b>192</b>	<19.7 U	<20.9 U	<42.8 U	<b>114000</b>	<22.9 U	<23.2 U	<22.4 U	<21.4 U	<34.3 U	<20.3 U	
Aroclor 1248	NE	NE	NE	<23400 U	<29.1 U	<19.7 U	<b>33.5</b>	<42.8 U	<2420 U	<b>616</b>	<b>848</b>	<b>760</b>	<b>694</b>	<b>220</b>	<b>917</b>	
Aroclor 1254	NE	NE	NE	<23400 U	<29.1 U	<19.7 U	<20.9 U	<42.8 U	<2420 U	<22.9 U	<23.2 U	<22.4 U	<21.4 U	<34.3 U	<20.3 U	
Aroclor 1260	NE	NE	NE	<23400 U	<29.1 U	<19.7 U	<20.9 U	<21.4 U	<2420 U	<b>25.2</b>	<b>38.2</b>	<22.4 U	<21.4 U	<34.3 U	<b>27.5</b>	
Aroclor 1262	NE	NE	NE	<23400 U	<29.1 U	<19.7 U	<20.9 U	<21.4 U	<2420 U	<22.9 U	<23.2 U	<22.4 U	<21.4 U	<34.3 U	<20.3 U	
Total PCB Aroclors	NE	1000	10000	<b>2100000</b>	<b>192</b>	<19.7 U	<b>33.5</b>	<42.8 U	<b>114000</b>	<b>641</b>	<b>886</b>	<b>760</b>	<b>694</b>	<b>220</b>	<b>945</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<7.11 U	NS	NS	NS	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<b>19.8</b>	NS	NS	NS	NS	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	<7.11 U	NS	NS	NS	NS	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<b>15.3 J</b>	NS	NS	NS	NS	
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	<b>139</b>	NS	NS	NS	NS	
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	<4.44 U	NS	NS	NS	NS	
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	<7.11 U	NS	NS	NS	NS	
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<b>14.5</b>	NS	NS	NS	NS	
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	<7.11 U	NS	NS	NS	NS	
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	<b>29.8</b>	NS	NS	NS	NS	
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<b>19.8</b>	NS	NS	NS	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	

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*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AD18-SB384 8-9 AD18-SB384 (8-9)-062512-1 6/25/2012 SB51819	AOC-1 AD18-SB384 10-11 AD18-SB384 (10-11)-062512-1 6/25/2012 SB51819	AOC-1 AD8-SS182 0-0.25 AD8 SS182 0-3 8/11/2011 SB33302	AOC-1 AD9-SB469 3.5-3.6 AD9-SB469 (3.5-3.6)71212-1 7/12/2012 SB52747	AOC-1 AD9-SB469 4-5 AD9-SB469 (4-5)71212-1 7/12/2012 SB52747	AOC-1 AD9-SB469 5-6 AD9-SB469 (5-6)71212-1 7/12/2012 SB52747	AOC-1 AD9-SB469 12-13 AD9-SB469 (12-13)71212-1 7/12/2012 SB52747	AOC-1 AE10-SB458 1-2 AE10-SB458 (1-2)071112-1 7/11/2012 SB52651	AOC-1 AE10-SB458 4-5 AE10-SB458 (4-5)071112-1 7/11/2012 SB52651	AOC-1 AE10-SB458 12-13 AE10-SB458 (12-13)071112-1 7/11/2012 SB52651	AOC-1 AE12-SB461 2.5-3 AE12-SB461 (2.5-3)071112-1 7/11/2012 SB52651	AOC-1 AE12-SB461 4-5 AE12-SB461 (4-5)071112-1 7/11/2012 SB52651	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<28.4 U	NS	<22.3 U	<488 U	<494 U	<227 U	<58.8 U	<20.6 U	<642 U	<b>103</b>	<b>124</b>	NS	
Aroclor 1248	NE	NE	NE	<b>1480</b>	NS	<b>564</b>	<b>17400</b>	<b>21900</b>	<b>13300 J+</b>	<58.8 U	<b>308</b>	<b>40300</b>	<28.1 U	<20.7 U	NS	
Aroclor 1254	NE	NE	NE	<28.4 U	NS	<22.3 U	<488 U	<494 U	<227 U	<58.8 U	<20.6 U	<642 U	<28.1 U	<20.7 U	NS	
Aroclor 1260	NE	NE	NE	<b>118</b>	NS	<22.3 U	<b>830</b>	<b>1010</b>	<b>568 J+</b>	<58.8 U	<20.6 U	<b>964</b>	<28.1 U	<20.7 U	NS	
Aroclor 1262	NE	NE	NE	<28.4 U	NS	<22.3 U	<488 U	<494 U	<227 U	<58.8 U	<20.6 U	<642 U	<28.1 U	<20.7 U	NS	
Total PCB Aroclors	NE	1000	10000	<b>1600</b>	NS	<b>564</b>	<b>18230</b>	<b>22900</b>	<b>13868</b>	<58.8 U	<b>308</b>	<b>41264</b>	<b>103</b>	<b>124</b>	NS	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	<b>7.6</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	<b>59.9 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	<b>322</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	<5.87 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	<b>46.6</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	<9.40 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	<b>106.5</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	<b>7.6</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	582	NS	NS	447	NS	NS	NS	NS	752
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	582	NS	NS	447	NS	NS	NS	NS	752
Unidentified	NE	NE	NE	NS	NS	NS	NS	582	NS	NS	447	NS	NS	NS	NS	752
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 UJ	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	2140	NS	NS	1800	NS	NS	NS	695	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	<302 U	NS	NS	<482 U	NS	NS	NS	<289 U	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	230	NS	NS	<241 U	NS	NS	NS	254	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	820	NS	NS	813	NS	NS	NS	304	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	<15100 U	NS	NS	<24100 U	NS	NS	NS	<2890 UJ	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	<1510 U	NS	NS	<2410 U	NS	NS	NS	<1450 U	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	<1510 U	NS	NS	<2410 U	NS	NS	NS	<1450 U	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
Benzene	20	21000	200000	<151 U	NS	NS	<241 U	NS	NS	NS	156	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	<302 U	NS	NS	<482 U	NS	NS	NS	<289 U	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	637	NS	NS	1820	NS	NS	NS	6940	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	1080	NS	NS	1270	NS	NS	NS	823 J	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	279	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	1830	NS	NS	3440	NS	NS	NS	2130	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	<1510 U	NS	NS	<2410 U	NS	NS	NS	<1450 U	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	<302 U	NS	NS	<482 U	NS	NS	NS	<289 U	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	798	NS	NS	1170	NS	NS	NS	814	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	379	NS	NS	456	NS	NS	NS	304	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	243	NS	NS	253	NS	NS	NS	178	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	1200 J	NS	NS	675 J	NS	NS	NS	627 J	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	550	NS	NS	617	NS	NS	NS	327	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	387	NS	NS	282	NS	NS	NS	171	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	<151 U	NS	NS	<241 U	NS	NS	NS	<145 U	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	<151 U	NS	NS	<241 U	NS	NS	NS	186	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	462	NS	NS	499	NS	NS	NS	623	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	798	NS	NS	1170	NS	NS	NS	814	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	3030	NS	NS	4120	NS	NS	NS	2760	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	153	NS	NS	600	NS	NS	NS	3820	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	231	NS	NS	1110	NS	NS	NS	5280	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	<151 UJ	NS	NS	316 J	NS	NS	NS	1670 J	NS	NS	NS	NS	NS





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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<b>203000</b>	<b>413</b>	<b>1240</b>	<b>879000</b>	NS	<b>317</b>	<20.3 U	<2310 U	<220 U	<24.2 U	<22.2 U	<b>384000</b>	
Aroclor 1248	NE	NE	NE	<23200 U	<47.8 U	<21.3 U	<24300 U	NS	<21.6 U	<b>1460</b>	<b>118000</b>	<220 U	<b>560</b>	<22.2 U	<21000 U	
Aroclor 1254	NE	NE	NE	<23200 U	<47.8 U	<21.3 U	<24300 U	NS	<21.6 U	<20.3 U	<2310 U	<22.0 U	<24.2 U	<22.2 U	<21000 U	
Aroclor 1260	NE	NE	NE	<23200 U	<47.8 U	<21.3 U	<24300 U	NS	<21.6 U	<20.3 U	<2310 U	<22.0 U	<b>29.1</b>	<22.2 U	<21000 U	
Aroclor 1262	NE	NE	NE	<23200 U	<47.8 U	<21.3 U	<24300 U	NS	<21.6 U	<20.3 U	<2310 U	<22.0 U	<24.2 U	<22.2 U	<21000 U	
Total PCB Aroclors	NE	1000	10000	<b>203000</b>	<b>413</b>	<b>1240</b>	<b>879000</b>	NS	<b>317</b>	<b>1460</b>	<b>118000</b>	<220 U	<b>589</b>	<22.2 U	<b>384000</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AE15-SB364 9-9  AE15-SB364 (9)-041212-1 4/12/2012 SB47192	AOC-1 AE15-SS88 0-0.25  AE15 SS88 0-3 8/11/2011 SB33302	AOC-1 AE15-SS88 0-0.5  AE15-SS88-080411 8/4/2011 SB32875	AOC-1 AE16-SB291 0-2  AE16-SB291(0-2)-021412- 1 2/14/2012 SB43969	AOC-1 AE16-SB291 6-7  AE16-SB291(6-7)-021412- 1 2/14/2012 SB43969	AOC-1 AE16-SB291 9-10  AE16-SB291(9-10)- 021412-1 2/14/2012 SB43969	AOC-1 AE16-SB291 9-10  AE16-SB291(9-10)- 021412-2 2/14/2012 SB43969	AOC-1 AE16-SS89 0-0.25  AE16 SS89 0-3 8/11/2011 SB33302	AOC-1 AE16-SS89 0-0.5  AE16-SS89-080411 8/4/2011 SB32875	AOC-1 AE17-SB79 0-1  AE17-SB79 0-1 8/10/2011 SB33218	AOC-1 AE17-SB79 1-2  AE17-SB79 1-2 8/10/2011 SB33218	AOC-1 AE17-SB79 5-6  AE17-SB79 5-6 8/10/2011 SB33218	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	NS	3840 J+	2760	NS	NS	NS	30.9	33.1	
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	NS	3840 J+	2760	NS	NS	NS	30.9	33.1	
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	3840 J+	2760	NS	NS	NS	30.9	33.1	
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	<80.8 UJ	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	1620	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	<162 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	123	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	247	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	<1620 U	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	<808 U	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	<808 U	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	159	NS	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	<162 U	NS	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	822	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	103	NS	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	1400	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	<808 U	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	<162 U	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	1450	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	495	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	146	NS	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	205	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	233	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	146	NS	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	606	NS	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	1450	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	1610	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	<80.8 U	NS	NS	NS	NS	NS	NS	NS





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Greenwich High School  
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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	NS	<24.5 U	<20.6 U	NS	<204 U	<b>2270000</b>	<b>2150000</b>	<23.6 U	<20.7 U	<22.2 U	<20.3 U	NS	
Aroclor 1248	NE	NE	NE	NS	<b>2530</b>	<b>2340</b>	NS	<204 U	<25000 U	<23600 U	<b>235</b>	<b>83</b>	<22.2 U	<20.3 U	NS	
Aroclor 1254	NE	NE	NE	NS	<24.5 U	<20.6 U	NS	<204 U	<25000 U	<23600 U	<23.6 U	<20.7 U	<22.2 U	<20.3 U	NS	
Aroclor 1260	NE	NE	NE	NS	<b>66.8</b>	<b>93.9</b>	NS	<204 U	<b>27800</b>	<b>25200</b>	<23.6 U	<20.7 U	<22.2 U	<20.3 U	NS	
Aroclor 1262	NE	NE	NE	NS	<24.5 U	<20.6 U	NS	<204 U	<25000 U	<23600 U	<23.6 U	<20.7 U	<22.2 U	<20.3 U	NS	
Total PCB Aroclors	NE	1000	10000	NS	<b>2600</b>	<b>2430</b>	NS	<204 U	<b>2300000</b>	<b>2180000</b>	<b>235</b>	<b>83</b>	<22.2 U	<20.3 U	NS	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<b>15.6</b>	NS	NS	NS	<9.75 U	NS	<8.94 U	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<b>14.8</b>	NS	NS	NS	<b>17.9</b>	NS	<5.59 U	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<9.82 U	NS	NS	NS	<9.75 U	NS	<8.94 U	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>28.7 J</b>	NS	NS	NS	<b>7.15 J</b>	NS	<b>69.8</b>	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>186</b>	NS	NS	NS	<b>45.1</b>	NS	<b>473</b>	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<6.14 U	NS	NS	NS	<6.09 U	NS	<5.59 U	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<9.82 U	NS	NS	NS	<9.75 U	NS	<8.94 U	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>23.2</b>	NS	NS	NS	<6.09 U	NS	<b>61.4 J</b>	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<9.82 U	NS	NS	NS	<9.75 U	NS	<8.94 U	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>51.9</b>	NS	NS	NS	<b>7.15</b>	NS	<b>131.2</b>	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<b>30.4</b>	NS	NS	NS	<b>17.9</b>	NS	<8.94	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.305</b>	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.021 U	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AE17-SB79 6-7  AE17-SB79 6-7 8/10/2011 SB33218	AOC-1 AE17-SB79 10-11  AE17-SB79 10-11 8/10/2011 SB33218	AOC-1 AE19-SB263 4-5 AE19-SB263 (4-5)-122811-1 12/28/2011 SB41712	AOC-1 AE19-SB263 6-7 AE19-SB263 (6-7)-122811-1 12/28/2011 SB41712	AOC-1 AE19-SB263 6-7 AE19-SB263 (6-7)-122811-2 12/28/2011 SB41712	AOC-1 AE19-SB263 12-13 AE19-SB263 (12-13)-122811-1 12/28/2011 SB41712	AOC-1 AE8-SB275 0-1 AE8-SB275(0-1)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SB275 3-5 AE8-SB275(3-5)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SB275 5-6 AE8-SB275(5-6)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SB275 7-8 AE8-SB275(7-8)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SS87 0-0.25 AE8 SS87 0-3 8/11/2011 SB33302	AOC-1 AE8-SS87 0-0.5 AE8-SS87-080411 8/4/2011 SB32875	
<b>VOC-SPLP (ug/L)</b>																
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>																
2-Methylnaphthalene	560	270000	1000000	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Acenaphthene	8400	1000000	2500000	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Acenaphthylene	8400	1000000	2500000	NS	NS	NS	<4570 UJ	<4360 UJ	NS	NS	<420 U	NS	NS	NS	NS	NS
Anthracene	40000	1000000	2500000	NS	NS	NS	6300	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	7800	NS	NS	NS	11100	7810	NS	NS	<420 U	NS	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	1000	NS	NS	NS	9590	6650	NS	NS	<420 U	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	7800	NS	NS	NS	7880	6160	NS	NS	<420 U	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	78000	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	78000	NS	NS	NS	9440	6060	NS	NS	<420 U	NS	NS	NS	NS	NS
Chrysene	1000	84000	780000	NS	NS	NS	10300	7150	NS	NS	<420 UJ	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	1000	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Fluoranthene	5600	1000000	2500000	NS	NS	NS	28300	19900	NS	NS	<420 U	NS	NS	NS	NS	NS
Fluorene	5600	1000000	2500000	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	7800	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
Phenanthrene	4000	1000000	2500000	NS	NS	NS	23800 J	13600 J	NS	NS	<420 U	NS	NS	NS	NS	NS
Pyrene	4000	1000000	2500000	NS	NS	NS	24600	17200	NS	NS	<420 UJ	NS	NS	NS	NS	NS
<b>SVOCs (ug/Kg)</b>																
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<839 U	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	<839 U	NS	NS	NS	NS	NS
1-Methylnaphthalene	200	21000	200000	NS	NS	NS	<4570 U	<4360 U	NS	NS	<420 U	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1000	200000	2500000	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	NS
2-Chlorophenol	1000	340000	2500000	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	NS
3,3-Dichlorobenzidine	200	1400	13000	NS	NS	NS	NS	NS	NS	NS	<839 U	NS	NS	NS	NS	NS
Benzidine	200	200	200	NS	NS	NS	NS	NS	NS	NS	<839 U	NS	NS	NS	NS	NS
Bis(2-chloroethyl)ether	1000	1000	5200	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	<420 UJ	NS	NS	NS	NS	NS
Di-n-octyl phthalate	2000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	<839 U	NS	NS	NS	NS	NS

**Soil Analytical Data  
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Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AE17-SB79 6-7  AE17-SB79 6-7 8/10/2011 SB33218	AOC-1 AE17-SB79 10-11  AE17-SB79 10-11 8/10/2011 SB33218	AOC-1 AE19-SB263 4-5  AE19-SB263 (4-5)-122811-1 12/28/2011 SB41712	AOC-1 AE19-SB263 6-7  AE19-SB263 (6-7)-122811-1 12/28/2011 SB41712	AOC-1 AE19-SB263 6-7  AE19-SB263 (6-7)-122811-2 12/28/2011 SB41712	AOC-1 AE19-SB263 12-13  AE19-SB263 (12-13)-122811-1 12/28/2011 SB41712	AOC-1 AE8-SB275 0-1  AE8-SB275(0-1)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SB275 3-5  AE8-SB275(3-5)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SB275 5-6  AE8-SB275(5-6)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SB275 7-8  AE8-SB275(7-8)-122911-1 12/29/2011 SB41766	AOC-1 AE8-SS87 0-0.25  AE8 SS87 0-3 8/11/2011 SB33302	AOC-1 AE8-SS87 0-0.5  AE8-SS87-080411 8/4/2011 SB32875	
<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	
Methanamine, n-methyl-n-nitrosoc	NE	200	360	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	NS	NS	<420 U	NS	NS	NS	NS	
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	NS	NS	<839 U	NS	NS	NS	NS	
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
Acenaphthene	8400	NE	NE	NS	NS	NS	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
Acenaphthylene	NE	NE	NE	NS	NS	NS	<0.105 U	NS	NS	NS	NS	NS	NS	NS	NS	
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	<0.0526 U	NS	NS	NS	NS	NS	NS	NS	NS	
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	<0.105 U	NS	NS	NS	NS	NS	NS	NS	NS	
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Fluoranthene	NE	NE	NE	NS	NS	NS	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
Fluorene	NE	NE	NE	NS	NS	NS	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
Naphthalene	NE	NE	NE	NS	NS	NS	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
Phenanthrene	NE	NE	NE	NS	NS	NS	<b>0.694 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	
Pyrene	NE	NE	NE	NS	NS	NS	<1.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
Total PAHs	NE	NE	NE	NS	NS	NS	<b>0.694</b>	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	NS	NS	NS	<b>16.8 J-</b>	<b>22.3 J-</b>	<5.29 UJ	NS	<6.41 UJ	NS	<5.31 UJ	NS	NS	
Arsenic	NE	10	10	NS	NS	NS	<b>45.9 J</b>	<b>22.5 J</b>	<1.59 UJ	NS	<1.92 U	NS	<1.59 U	NS	NS	
Barium	NE	4700	140000	NS	NS	NS	<b>1170 J</b>	<b>1040 J</b>	<b>60.0 J</b>	NS	<b>82.9 J</b>	NS	<b>42.4 J</b>	NS	NS	
Beryllium	NE	2	2	NS	NS	NS	<0.630 U	<0.640 U	<0.529 U	NS	<b>0.789</b>	NS	<0.531 U	NS	NS	
Cadmium	NE	34	1000	NS	NS	NS	<b>18.4 J</b>	<b>13.1 J</b>	<b>0.678 J</b>	NS	<0.641 U	NS	<0.531 U	NS	NS	
Chromium	NE	NE	NE	NS	NS	NS	<b>230 J</b>	<b>186 J</b>	<b>15.6 J</b>	NS	<b>29.2 J</b>	NS	<b>9.94 J</b>	NS	NS	
Copper	NE	2500	76000	NS	NS	NS	<b>1170 J</b>	<b>378 J</b>	<b>11.5 J</b>	NS	<b>5.62 J-</b>	NS	<b>7.29 J-</b>	NS	NS	
Lead	NE	400	1000	NS	NS	NS	<b>1940 J</b>	<b>1970 J</b>	<b>10.7 J</b>	NS	<b>7.16</b>	NS	<b>2.28</b>	NS	NS	
Mercury	NE	20	610	NS	NS	NS	<1.16 U	<1.12 U	<0.981 U	NS	<b>0.0350 J</b>	NS	<0.0333 UJ	NS	NS	
Nickel	NE	1400	7500	NS	NS	NS	<b>199 J</b>	<b>87.1 J</b>	<b>12.9 J</b>	NS	<b>12.8 J</b>	NS	<b>5.05 J</b>	NS	NS	
Selenium	NE	340	10000	NS	NS	NS	<3.15 U	<1.92 U	<1.59 U	NS	<1.92 U	NS	<1.59 U	NS	NS	
Silver	NE	340	10000	NS	NS	NS	<b>3.98 J</b>	<b>67.7 J</b>	<1.59 UJ	NS	<1.92 U	NS	<1.59 U	NS	NS	
Thallium	NE	5.4	160	NS	NS	NS	<12.6 U	<8.96 U	<3.18 U	NS	<3.85 U	NS	<3.19 U	NS	NS	
Vanadium	NE	470	14000	NS	NS	NS	<b>154 J</b>	<b>71.1 J</b>	<b>18.0 J</b>	NS	<b>22.1</b>	NS	<b>8.89</b>	NS	NS	
Zinc	NE	20000	610000	NS	NS	NS	<b>4110 J</b>	<b>2220 J</b>	<b>31.9 J</b>	NS	<b>26.3 JEB</b>	NS	<b>13.1 JEB</b>	NS	NS	
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	<0.0080 U	NS	NS	NS	NS	NS	NS	NS	NS	
Arsenic	0.05	NE	NE	NS	NS	NS	<0.0040 U	NS	NS	NS	NS	NS	NS	NS	NS	
Barium	1	NE	NE	NS	NS	NS	<b>0.346</b>	NS	NS	NS	NS	NS	NS	NS	NS	
Cadmium	0.005	NE	NE	NS	NS	NS	<0.0025 U	NS	NS	NS	NS	NS	NS	NS	NS	
Chromium	0.05	NE	NE	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	
Copper	1.3	NE	NE	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	
Lead	0.015	NE	NE	NS	NS	NS	<0.0075 U	NS	NS	NS	NS	NS	NS	NS	NS	
Nickel	0.1	NE	NE	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	
Vanadium	0.05	NE	NE	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS	NS	NS	
Zinc	5	NE	NE	NS	NS	NS	<0.0340 U	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	NS	NS	<1.19 UJ	NS	NS	NS	NS	

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.9 U	NS	<19.7 U	<525 U	<516 U	<21.0 U	NS	<25.8 U	<591 U	NS	<23.5 U	<21.5 U	
Aroclor 1248	NE	NE	NE	<21.9 U	NS	<19.7 U	<525 U	<516 U	<21.0 U	NS	<25.8 U	<591 U	NS	<b>1930</b>	<b>729</b>	
Aroclor 1254	NE	NE	NE	<21.9 U	NS	<19.7 U	<525 U	<516 U	<21.0 U	NS	<25.8 U	<591 U	NS	<23.5 U	<21.5 U	
Aroclor 1260	NE	NE	NE	<21.9 U	NS	<19.7 U	<525 U	<516 U	<21.0 U	NS	<25.8 U	<591 U	NS	<b>58.7</b>	<21.5 U	
Aroclor 1262	NE	NE	NE	<21.9 U	NS	<19.7 U	<525 U	<516 U	<21.0 U	NS	<25.8 U	<591 U	NS	<23.5 U	<21.5 U	
Total PCB Aroclors	NE	1000	10000	<21.9 U	NS	<19.7 U	<525 U	<516 U	<21.0 U	NS	<25.8 U	<591 U	NS	<b>1990</b>	<b>729</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<8.90 U	<8.73 U	NS	NS	NS	NS	<11.2 U	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<5.56 U	<5.45 U	NS	NS	NS	NS	<6.97 U	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<8.90 U	<8.73 U	NS	NS	NS	NS	<11.2 U	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<b>24.2</b>	<5.45 U	NS	NS	NS	NS	<b>9.13 J</b>	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	<b>134</b>	<21.8 U	NS	NS	NS	NS	<b>77.4</b>	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	<5.56 U	<5.45 U	NS	NS	NS	NS	<6.97 U	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	<8.90 U	<8.73 U	NS	NS	NS	NS	<11.2 U	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<b>24.9 J</b>	<5.45 U	NS	NS	NS	NS	<b>7.17</b>	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	<8.90 U	<8.73 U	NS	NS	NS	NS	<11.2 U	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	<b>49.1</b>	<5.45	NS	NS	NS	NS	<b>16.3</b>	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	<8.90	<8.73	NS	NS	NS	NS	<6.97	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	<b>0.19</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	<0.020 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.

<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AF13-SB456 2-3 AF13-SB456 (2-3)071112-1 7/11/2012 SB52651	AOC-1 AF13-SB456 4-4.5 AF13-SB456 (4-4.5)071112-1 7/11/2012 SB52651	AOC-1 AF14-SB454 4-5 AF14-SB454 (4-5)71012-1 7/10/2012 SB52651	AOC-1 AF14-SB454 5.5-6 AF14-SB454 (5.5-6)71012-1 7/10/2012 SB52651	AOC-1 AF15-SB259 0-1 AF15-SB259 (0-1)-122711-1 12/27/2011 SB41712	AOC-1 AF15-SB259 4-5 AF15-SB259 (4-5)-122711-1 12/27/2011 SB41712	AOC-1 AF15-SB259 6-7.5 AF15-SB259 (6-7.5)-122711-1 12/27/2011 SB41712	AOC-1 AF15-SB259 9-10 AF15-SB259 (9-10)-122711-1 12/27/2011 SB41712	AOC-1 AF15-SB259 13-14 AF15-SB259 (13-14)-122711-1 12/27/2011 SB41712	AOC-1 AF15-SS90 0-0.25 AF15 SS90 0-3 8/11/2011 SB33302	AOC-1 AF15-SS90 0-0.5 AF15-SS90-080411 8/4/2011 SB32875	AOC-1 AF16-SB361 4.5-5 AF16-SB361 (4.5-5)-041212-1 4/12/2012 SB47192	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	538	NS	NS	2350	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	538	NS	NS	2350	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	538	NS	NS	2350	NS	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	0.7	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	0.7	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	0.7	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	12000	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	<169 U	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	2330	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	3460 J-	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	138	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	233	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	<1690 U	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	<845 U	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	<845 U	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	<84.5 UJ	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	954	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	<169 U	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	1250	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	19400	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	870	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	109000	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<845 U	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	<169 U	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	7250	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	3030	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	1400	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	32100	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	800	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	487	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	192	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	<84.5 U	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	1640	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	7250	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	141000	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	525	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	231	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	194 J	NS	NS	NS	NS	NS	NS



**Soil Analytical Data  
Greenwich High School  
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<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methanamine, n-methyl-n-nitros	NE	200	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	<1.00 U	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	<1.00 U	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	<1.00 U	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.100 U	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<b>0.0790 J</b>	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.100 U	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.00 U	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.00 U	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.00 U	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<b>0.517 J</b>	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.00 U	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	<b>0.596</b>	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	<4.53 UJ	<30.1 UJ	<7.61 UJ	<6.09 UJ	NS	NS	<6.04 UJ	NS	<13.5 UJ	NS	NS	NS	<5.16 U
Arsenic	NE	10	10	<1.36 U	<9.03 UJ	<19.0 U	<1.83 U	NS	NS	<b>13.3 J</b>	NS	<4.04 UJ	NS	NS	NS	<b>6.43</b>
Barium	NE	4700	140000	<b>290</b>	<b>595</b>	<b>617</b>	<b>414</b>	NS	NS	<b>738 J</b>	NS	<b>251 J</b>	NS	NS	NS	<b>109</b>
Beryllium	NE	2	2	<2.27 U	<0.602 U	<0.761 U	<0.609 U	NS	NS	<0.604 U	NS	<1.35 U	NS	NS	NS	<b>0.665</b>
Cadmium	NE	34	1000	<0.453 UJ	<b>2.93 J</b>	<b>5.74 J</b>	<b>2.66 J</b>	NS	NS	<b>12.4 J</b>	NS	<1.35 UJ	NS	NS	NS	<0.516 U
Chromium	NE	NE	NE	<b>99.1</b>	<b>123</b>	<b>176</b>	<b>108</b>	NS	NS	<b>134 J</b>	NS	<b>41.8 J</b>	NS	NS	NS	<b>57.2</b>
Copper	NE	2500	76000	<b>28.6 J</b>	<b>439 J</b>	<b>441 J</b>	<b>240 J</b>	NS	NS	<b>845 J</b>	NS	<b>13.8 J</b>	NS	NS	NS	<b>20.1</b>
Lead	NE	400	1000	<b>17.2 J</b>	<b>1830 J</b>	<b>3320 J</b>	<b>1380 J</b>	NS	NS	<b>1850 J</b>	NS	<b>7.90 J</b>	NS	NS	NS	<b>18.9</b>
Mercury	NE	20	610	<0.0292 UJ	<b>0.605 J</b>	<b>0.974 J</b>	<b>0.498 J</b>	NS	NS	<b>0.961 J+</b>	NS	<b>0.118 J+</b>	NS	NS	NS	<0.0310 U
Nickel	NE	1400	7500	<b>38.1</b>	<b>66.2</b>	<b>90.5</b>	<b>172</b>	NS	NS	<b>120 J</b>	NS	<b>19.8 J</b>	NS	NS	NS	<b>28</b>
Selenium	NE	340	10000	<1.36 UJ	<b>2.02 J-</b>	<2.28 UJ	<1.83 UJ	NS	NS	<1.81 U	NS	<4.17 U	NS	NS	NS	<1.55 U
Silver	NE	340	10000	<6.80 U	<1.81 U	<11.4 U	<1.83 U	NS	NS	<b>6.54 J</b>	NS	<4.04 UJ	NS	NS	NS	<1.55 U
Thallium	NE	5.4	160	<2.72 U	<18.1 U	<4.57 U	<3.65 U	NS	NS	<6.65 U	NS	<8.07 U	NS	NS	NS	<3.10 U
Vanadium	NE	470	14000	<b>65.8</b>	<b>67.7</b>	<b>83.6</b>	<b>51.6</b>	NS	NS	<b>85.7 J</b>	NS	<b>26.6 J</b>	NS	NS	NS	<b>43</b>
Zinc	NE	20000	610000	<b>70.7 J</b>	<b>1390 J</b>	<b>1500 J</b>	<b>1030 J</b>	NS	NS	<b>1660 J</b>	NS	<b>37.6 J</b>	NS	NS	NS	<b>42.7</b>
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	<0.0040 U	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	<b>0.0916</b>	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	<0.0025 U	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	<0.0075 U	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	<0.0460 U	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	NS	<b>1.78 J</b>	NS	NS	NS	NS	NS	NS

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.8 U	<23600 U	<30600 U	<23000 U	NS	<b>5350</b>	<b>570000</b>	<20.3 U	NS	<22.9 U	<20.4 U	<213 U	
Aroclor 1248	NE	NE	NE	<b>468</b>	<b>362000</b>	<b>694000</b>	<b>534000</b>	NS	<22.1 U	<25.6 U	<20.3 U	NS	<b>2480</b>	<b>20500</b>	<213 U	
Aroclor 1254	NE	NE	NE	<20.8 U	<23600 U	<30600 U	<23000 U	NS	<22.1 U	<25.6 U	<20.3 U	NS	<22.9 U	<20.4 U	<213 U	
Aroclor 1260	NE	NE	NE	<20.8 U	<23600 U	<30600 U	<23000 U	NS	<b>54.1</b>	<b>5410</b>	<20.3 U	NS	<b>111</b>	<b>708</b>	<21.3 U	
Aroclor 1262	NE	NE	NE	<20.8 U	<23600 U	<30600 U	<23000 U	NS	<22.1 U	<25.6 U	<20.3 U	NS	<22.9 U	<20.4 U	<21.3 U	
Total PCB Aroclors	NE	1000	10000	<b>468</b>	<b>362000</b>	<b>694000</b>	<b>534000</b>	NS	<b>5404.1</b>	<b>575410</b>	<20.3 U	NS	<b>2590</b>	<b>21208</b>	<213 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	<b>0.0733</b>	NS	NS	NS	NS	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.000211 U	NS	NS	NS	NS	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	<b>0.000505 J</b>	NS	NS	NS	NS	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	<b>0.0738</b>	NS	NS	NS	NS	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	<9.21 U	NS	NS	NS	NS	NS	NS	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	<5.75 U	NS	NS	NS	NS	NS	NS	NS	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	<9.21 U	NS	NS	NS	NS	NS	NS	NS	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	<5.75 U	NS	NS	NS	NS	NS	NS	NS	
Chlordane	NE	490	2200	NS	NS	NS	NS	<23.0 U	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	7	38	360	NS	NS	NS	NS	<5.75 U	NS	NS	NS	NS	NS	NS	NS	
Endrin (40)	40	20000	610000	NS	NS	NS	NS	<9.21 UJ	NS	NS	NS	NS	NS	NS	NS	
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	<5.75 U	NS	NS	NS	NS	NS	NS	NS	
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	<9.21 U	NS	NS	NS	NS	NS	NS	NS	
Total Chlordanes	66	490	2200	NS	NS	NS	NS	<5.75	NS	NS	NS	NS	NS	NS	NS	
Total DDx	NE	NE	NE	NS	NS	NS	NS	<9.21	NS	NS	NS	NS	NS	NS	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<b>197000</b>	<b>680</b>	<22.9 U	<21.4 U	<225 U	<22.9 U	<25.3 U	<38.0 U	<10.8 U	NS	<22.8 U	<28.9 U	
Aroclor 1248	NE	NE	NE	<4560 U	<21.0 U	<b>4890</b>	<b>3590</b>	<225 U	<b>64.2</b>	<b>885</b>	<b>289</b>	<10.8 U	NS	<b>4030 J</b>	<28.9 U	
Aroclor 1254	NE	NE	NE	<4560 U	<42.1 U	<22.9 U	<21.4 U	<225 U	<22.9 U	<25.3 U	<38.0 U	<10.8 U	NS	<22.8 U	<28.9 U	
Aroclor 1260	NE	NE	NE	<4560 U	<21.0 U	<b>171</b>	<b>126</b>	<22.5 U	<22.9 U	<25.3 U	<38.0 U	<10.8 U	NS	<b>155 J</b>	<28.9 U	
Aroclor 1262	NE	NE	NE	<4560 U	<21.0 U	<22.9 U	<21.4 U	<22.5 U	<22.9 U	<25.3 U	<38.0 U	<10.8 U	NS	<22.8 U	<28.9 U	
Total PCB Aroclors	NE	1000	10000	<b>197000</b>	<b>680</b>	<b>5061</b>	<b>3720</b>	<225 U	<b>64.2</b>	<b>885</b>	<b>289</b>	<10.8 U	NS	<b>4190</b>	<28.9 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<8.67 U	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<5.42 U	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	<8.67 U	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<5.42 U	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	<21.7 U	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	<5.42 U	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	<8.67 U	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<5.42 U	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	<8.67 U	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	<5.42	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<8.67	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AF21-SB202 12-13  AF21-SB202(12-13)-1 10/2/2011 SB36674	AOC-1 AF22-SB215 0-0.5  AF-22-SB215(0-0.5) 10/9/2011 SB37166	AOC-1 AF22-SB215 1-3  AF-22-SB215(1-3) 10/9/2011 SB37166	AOC-1 AF22-SB215 1-3  AF-22-SB215(1-3) DUP 10/9/2011 SB37166	AOC-1 AF22-SB215 5-6  AF-22-SB215(5-6) 10/9/2011 SB37166	AOC-1 AF22-SB215 8-9  AF-22-SB215(8-9) 10/9/2011 SB37166	AOC-1 AG10-SB442 1.5-2  AG10-SB442 (1.5-2)- 070912-1 7/9/2012 SB52446	AOC-1 AG10-SB442 9-10  AG10-SB442 (9-10)- 070912-1 7/9/2012 SB52446	AOC-1 AG12-SB453 1-2  AG12-SB453 (1-2)71012-1 7/10/2012 SB52651	AOC-1 AG12-SB453 4-5  AG12-SB453 (4-5)71012-1 7/10/2012 SB52651	AOC-1 AG12-SB453 11-12  AG12-SB453 (11- 12)71012-1 7/10/2012 SB52651	AOC-1 AG13-SB455 4.5-5  AG13-SB455 (4.5-5)71012- 1 7/10/2012 SB52651	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	NS	NS	NS	<33.6 UJ	NS	1600	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	NS	NS	NS	<33.6 U	NS	1600	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<33.6 U	NS	1600	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	450	NS	3130	3130
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	<562 U	NS	<447 U	<447 U
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	1470	1470
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<28100 U	NS	<22300 U	<22300 U
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2810 U	NS	<2230 U	<2230 U
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2810 U	NS	<2230 U	<2230 U
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<562 U	NS	<447 U	<447 U
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	1150	1150
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	798	NS	1130	1130
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	1700	NS	4140	4140
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2810 U	NS	<2230 U	<2230 U
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<562 U	NS	<447 U	<447 U
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	1920	NS	1020	1020
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	643	NS	637	637
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	326	326
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	320 J	NS	1910 J	1910 J
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	292	NS	945	945
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	295	NS	659	659
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	438	NS	<223 U	<223 U
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	450	NS	3070	3070
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	1920	NS	1020	1020
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	2000	NS	6050	6050
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	<223 U	<223 U
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 U	NS	824	824
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<281 UJ	NS	239 J	239 J





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<86.5 UJ	<20.2 U	<21.6 U	<21.7 U	<22.6 U	<28.8 U	<207 U	<24.5 U	<23.4 U	<22700 U	<27.0 U	<24600 U
Aroclor 1248	NE	NE	NE	<86.5 UJ	<20.2 U	<b>570</b>	<b>492</b>	<22.6 U	<28.8 U	<b>10900</b>	<24.5 U	<b>436</b>	<b>808000</b>	<b>593</b>	<b>1140000 J</b>
Aroclor 1254	NE	NE	NE	<86.5 UJ	<20.2 U	<21.6 U	<21.7 U	<22.6 U	<28.8 U	<207 U	<24.5 U	<23.4 U	<22700 U	<27.0 U	<24600 U
Aroclor 1260	NE	NE	NE	<86.5 UJ	<20.2 U	<21.6 U	<21.7 U	<22.6 U	<28.8 U	<b>259</b>	<24.5 U	<23.4 U	<22700 U	<27.0 U	<24600 U
Aroclor 1262	NE	NE	NE	<86.5 UJ	<20.2 U	<21.6 U	<21.7 U	<22.6 U	<28.8 U	<207 U	<24.5 U	<23.4 U	<22700 U	<27.0 U	<24600 U
Total PCB Aroclors	NE	1000	10000	<86.5 U	<20.2 U	<b>570</b>	<b>492</b>	<22.6 U	<28.8 U	<b>11200</b>	<24.5 U	<b>436</b>	<b>808000</b>	<b>593</b>	<b>1140000</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	NS	<21.0 U	<48.7 U	<27700 U	<21.1 U	<39.0 U	<22.1 U	<22.4 U	<4650 U	<28.8 U	<21.4 U	<b>1150000</b>	
Aroclor 1248	NE	NE	NE	NS	<b>1250</b>	<b>660</b>	<b>1410000</b>	<b>189</b>	<b>207</b>	<b>8930</b>	<b>1150</b>	<b>403000</b>	<b>484 J</b>	<b>1920</b>	<25600 U	
Aroclor 1254	NE	NE	NE	NS	<21.0 U	<48.7 U	<27700 U	<21.1 U	<39.0 U	<22.1 U	<22.4 U	<4650 U	<28.8 U	<21.4 U	<25600 U	
Aroclor 1260	NE	NE	NE	NS	<b>21</b>	<48.7 U	<27700 U	<21.1 U	<39.0 U	<b>6920</b>	<b>49.1</b>	<4650 U	<28.8 U	<b>33.7</b>	<25600 U	
Aroclor 1262	NE	NE	NE	NS	<21.0 U	<48.7 U	<27700 U	<21.1 U	<39.0 U	<22.1 U	<22.4 U	<4650 U	<28.8 U	<21.4 U	<25600 U	
Total PCB Aroclors	NE	1000	10000	NS	<b>1270</b>	<b>660</b>	<b>1410000</b>	<b>189</b>	<b>207</b>	<b>15850</b>	<b>1200</b>	<b>403000</b>	<b>484</b>	<b>1950</b>	<b>1150000</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich High School  
Greenwich, CT**

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	NS	NS	NS	<31.9 U	NS	236	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	NS	NS	NS	<31.9 U	NS	236	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<31.9 U	NS	236	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	648	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	<266 U	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	173	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2660 U	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1330 U	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1330 U	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<266 U	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	145	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	684	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	1890	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1330 U	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<266 U	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	170	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	181	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	247	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	230	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	170	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	2140	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	NS	150	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<133 U	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AG16-SB358 12-13 AG16-SB358 (12-13)- 041012-1 4/10/2012 SB47192	AOC-1 AG16-SS180 0-0.25 AG16-SS180 0-3 8/11/2011 SB33374	AOC-1 AG16-SS181 0-0.25 AG16 SS181 0-3 8/11/2011 SB33302	AOC-1 AG16-SS93 0-0.5 AG16-SS93-080411 8/4/2011 SB32875	AOC-1 AG16-SS93 0-0.5 AG16-SS93-080511 8/5/2011 SB32945	AOC-1 AG17-SB255 4-5 AG17-SB255 (4-5)-122711- 1 12/27/2011 SB41712	AOC-1 AG17-SB255 5-7 AG17-SB255 (5-7)-122711- 1 12/27/2011 SB41712	AOC-1 AG17-SB255 10-11 AG17-SB255 (10-11)- 122711-1 12/27/2011 SB41712	AOC-1 AG18-SB302 1-2 AG18-SB302(1-2)-021612- 1 2/16/2012 SB44035	AOC-1 AG18-SB302 6-7 AG18-SB302(6-7)-021612- 1 2/16/2012 SB44035	AOC-1 AG18-SB302 8-10 AG18-SB302(8-10)- 021612-1 2/16/2012 SB44035	AOC-1 AG18-SB302 8-10 AG18-SB302(8-10)- 021612-2 2/16/2012 SB44035	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<317 U	<23.7 U	<23.0 U	<210 U	<20.3 U	<22.4 U	<24.7 U	<22.6 U	NS	<2820 U	<20.6 U	<20.7 U	
Aroclor 1248	NE	NE	NE	<317 U	<b>28300</b>	<b>6480</b>	<b>6040</b>	<b>7370</b>	<b>11000</b>	<b>929</b>	<b>596</b>	NS	<b>337000</b>	<b>140 J</b>	<20.7 UJ	
Aroclor 1254	NE	NE	NE	<317 U	<23.7 U	<23.0 U	<210 U	<20.3 U	<22.4 U	<24.7 U	<22.6 U	NS	<2820 U	<20.6 U	<20.7 U	
Aroclor 1260	NE	NE	NE	<31.7 U	<b>457</b>	<b>244</b>	<210 U	<b>156</b>	<b>189</b>	<24.7 U	<22.6 U	NS	<2820 U	<20.6 U	<20.7 U	
Aroclor 1262	NE	NE	NE	<31.7 U	<23.7 U	<23.0 U	<210 U	<20.3 U	<22.4 U	<24.7 U	<22.6 U	NS	<2820 U	<20.6 U	<20.7 U	
Total PCB Aroclors	NE	1000	10000	<317 U	<b>28837.9</b>	<b>6724</b>	<b>6040</b>	<b>7526</b>	<b>11189</b>	<b>929</b>	<b>596</b>	NS	<b>337000</b>	<b>140</b>	<20.7 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>12.8</b>	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>11.9</b>	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	<9.08 U	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>45.9 J</b>	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	<b>243</b>	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	<5.68 U	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	<9.08 U	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>47.1 J</b>	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	<9.08 U	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	<b>93</b>	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>24.7</b>	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Bold = Detected above reporting limit**

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Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AG21-SB214 0-0.5 AG-21-SB214(0-0.5) 10/9/2011 SB37166	AOC-1 AG21-SB214 4.5-5.5 AG-21-SB214(4.5-5.5) 10/9/2011 SB37166	AOC-1 AG21-SB214 8-8.5 AG-21-SB214(8.0-8.5) 10/9/2011 SB37166	AOC-1 AG21-SB214 13-14 AG-21-SB214(13-14) 10/9/2011 SB37166	AOC-1 AG22-SB213 0-0.5 AG-22-SB213(0-0.5) 10/9/2011 SB37166	AOC-1 AG22-SB213 0-4 AG-22-SB213(0-4) 10/9/2011 SB37166	AOC-1 AG22-SB213 0-4 AG-22-SB213(0-4) DUP 10/9/2011 SB37166	AOC-1 AG22-SB213 2-2.5 AG-22-SB213(2-2.5) 10/9/2011 SB37166	AOC-1 AG22-SB213 5-9 AG-22-SB213(5-9) 10/9/2011 SB37166	AOC-1 AG22-SB213 6-7 AG-22-SB213(6-7) 10/9/2011 SB37166	AOC-1 AG22-SB213 10-15 AG-22-SB213(10-15) 10/9/2011 SB37166	AOC-1 AG9-SS92 0-0.25 AG9 SS92 0-3 8/11/2011 SB33302	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.6 U	<21.7 U	<19.7 U	<66.8 UJ	<20.4 U	NS	NS	<21.2 U	NS	<28.0 U	<27.0 U	<23.3 U	
Aroclor 1248	NE	NE	NE	<21.6 U	<21.7 U	<19.7 U	<66.8 UJ	<20.4 U	NS	NS	<21.2 U	NS	<28.0 U	<27.0 U	<b>218</b>	
Aroclor 1254	NE	NE	NE	<21.6 U	<21.7 U	<19.7 U	<66.8 UJ	<20.4 U	NS	NS	<21.2 U	NS	<28.0 U	<27.0 U	<23.3 U	
Aroclor 1260	NE	NE	NE	<21.6 U	<b>37.9</b>	<19.7 U	<66.8 UJ	<20.4 U	NS	NS	<21.2 U	NS	<28.0 U	<27.0 U	<23.3 U	
Aroclor 1262	NE	NE	NE	<21.6 U	<21.7 U	<19.7 U	<66.8 UJ	<20.4 U	NS	NS	<21.2 U	NS	<28.0 U	<27.0 U	<23.3 U	
Total PCB Aroclors	NE	1000	10000	<21.6 U	<b>37.9</b>	<19.7 U	<66.8 U	<20.4 U	NS	NS	<21.2 U	NS	<28.0 U	<27.0 U	<b>218</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AG9-SS92 0-0.5 AG9-SS92-080411 8/4/2011 SB32875	AOC-1 AH13-SB448 1-2 AH13-SB448(1-2)-071012-1 7/10/2012 SB52560	AOC-1 AH13-SB448 3.5-5 AH13-SB448(3.5-5)-071012-1 7/10/2012 SB52560	AOC-1 AH13-SB448 3.5-5 AH13-SB448(3.5-5)-071012-2 7/10/2012 SB52560	AOC-1 AH13-SB448 11.5-12 AH13-SB448(11.5-12)-071012-1 7/10/2012 SB52560	AOC-1 AH14-SB447 1-2 AH14-SB447(1-2)-071012-1 7/10/2012 SB52560	AOC-1 AH14-SB447 4.5-5.5 AH14-SB447(4.5-5.5)-071012-1 7/10/2012 SB52560	AOC-1 AH14-SB447 11.5-12 AH14-SB447(11.5-12)-071012-1 7/10/2012 SB52560	AOC-1 AH15-SB357 4.5-5 AH15-SB357(4.5-5)-041012-1 4/10/2012 SB46973	AOC-1 AH15-SB357 5-7 AH15-SB357(5-7)-041012-1 4/10/2012 SB46973	AOC-1 AH16-SB258 0-1 AH16-SB258(0-1)-122711-1 12/27/2011 SB41712	AOC-1 AH16-SB258 4.5-5 AH16-SB258(4.5-5)-122711-1 12/27/2011 SB41712	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	2850 J	1210 J	NS	NS	1840	NS	NS	2480	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	2850 J	1210 J	NS	NS	1840	NS	NS	2480	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	2850 J	1210 J	NS	NS	1840	NS	NS	2480	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 UJ	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	512	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	<806 U	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	790	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8060 UJ	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4030 U	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4030 UJ	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<806 U	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	1300	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<806 U	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4030 UJ	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<806 U	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	842	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 U	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	842	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<806 U	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	955	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	NS	669	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<403 UJ DL	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AG9-SS92 0-0.5 AG9-SS92-080411 8/4/2011 SB32875	AOC-1 AH13-SB448 1-2 AH13-SB448(1-2)-071012-1 7/10/2012 SB52560	AOC-1 AH13-SB448 3-5-5 AH13-SB448(3.5-5)-071012-1 7/10/2012 SB52560	AOC-1 AH13-SB448 3-5-5 AH13-SB448(3.5-5)-071012-2 7/10/2012 SB52560	AOC-1 AH13-SB448 11.5-12 AH13-SB448(11.5-12)-071012-1 7/10/2012 SB52560	AOC-1 AH14-SB447 1-2 AH14-SB447(1-2)-071012-1 7/10/2012 SB52560	AOC-1 AH14-SB447 4.5-5.5 AH14-SB447(4.5-5.5)-071012-1 7/10/2012 SB52560	AOC-1 AH14-SB447 11.5-12 AH14-SB447(11.5-12)-071012-1 7/10/2012 SB52560	AOC-1 AH15-SB357 4.5-5 AH15-SB357(4.5-5)-041012-1 4/10/2012 SB46973	AOC-1 AH15-SB357 5-7 AH15-SB357(5-7)-041012-1 4/10/2012 SB46973	AOC-1 AH16-SB258 0-1 AH16-SB258(0-1)-122711-1 12/27/2011 SB41712	AOC-1 AH16-SB258 4.5-5 AH16-SB258(4.5-5)-122711-1 12/27/2011 SB41712	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.2 U	<b>29000</b>	<b>464 J</b>	<b>179 J</b>	<44700 U	<b>260</b>	<24.1 U	<b>1200000</b>	<2160 U	<24800 U	NS	<b>31800</b>	
Aroclor 1248	NE	NE	NE	<b>979</b>	<196 U	<24.1 U	<23.7 U	<b>2590000</b>	<21.6 U	<b>279</b>	<39900 U	<b>131000</b>	<b>1710000</b>	NS	<23.6 U	
Aroclor 1254	NE	NE	NE	<23.2 U	<196 U	<24.1 U	<23.7 U	<44700 U	<21.6 U	<b>161</b>	<39900 U	<2160 U	<24800 U	NS	<23.6 U	
Aroclor 1260	NE	NE	NE	<b>39.5</b>	<b>1080</b>	<24.1 U	<23.7 U	<44700 U	<21.6 U	<24.1 U	<39900 U	<2160 U	<24800 U	NS	<b>333</b>	
Aroclor 1262	NE	NE	NE	<23.2 U	<196 U	<24.1 U	<23.7 U	<44700 U	<21.6 U	<24.1 U	<39900 U	<2160 U	<24800 U	NS	<23.6 U	
Total PCB Aroclors	NE	1000	10000	<b>1020</b>	<b>30100</b>	<b>464</b>	<b>179</b>	<b>2590000</b>	<b>260</b>	<b>440</b>	<b>1200000</b>	<b>131000</b>	<b>1710000</b>	NS	<b>32100</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 U	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.43 U	NS	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 U	NS	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.43 U	NS	
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<25.7 U	NS	
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.43 U	NS	
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 UJ	NS	
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.43 U	NS	
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 U	NS	
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.43	NS	
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.43	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AH16-SB258 6-7.5 AH16-SB258 (6-7.5)- 122711-1 12/27/2011 SB41712	AOC-1 AH16-SB258 12-13 AH16-SB258 (12-13)- 122711-1 12/27/2011 SB41712	AOC-1 AH16-SS178 0-0.25 AH16-SS178 0-3 8/11/2011 SB33374	AOC-1 AH16-SS179 0-0.25 AH16 SS179 0-3 8/11/2011 SB33302	AOC-1 AH16-SS94 0-0.25 AH16 SS94 0-3 8/11/2011 SB33302	AOC-1 AH16-SS94 0-0.5 AH16-SS94-080411 8/4/2011 SB32875	AOC-1 AH17-SB352 1.5-2 AH17-SB352(1.5-2)- 040912-1 4/9/2012 SB46973	AOC-1 AH17-SB352 7-8 AH17-SB352(7-8)-040912- 1 4/9/2012 SB46973	AOC-1 AH17-SB352 12-13 AH17-SB352(12-13)- 040912-1 4/9/2012 SB46973	AOC-1 AH18-SB301 4-5 AH18-SB301(4-5)-021612- 1 2/16/2012 SB44035	AOC-1 AH18-SB301 8-10 AH18-SB301(8-10)- 021612-1 2/16/2012 SB44035	AOC-1 AH19-SB201 0-0.5 AH19-SB201(0-0.5)-1 10/2/2011 SB36674	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	3160	NS	NS	NS	NS	NS	NS	56.8	NS	NS	98.5	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	3160	NS	NS	NS	NS	NS	NS	56.8	NS	NS	98.5	NS	NS
Unidentified	NE	NE	NE	3160	NS	NS	NS	NS	NS	NS	56.8	NS	NS	98.5	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	<19.3 U	NS	NS	<19.3 U	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	<19.3 U	NS	NS	<19.3 U	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<94.4 U	NS	NS	<96.6 U	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	104	NS	NS	109 J+	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	<18.9 U	NS	NS	<19.3 U	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<18.9 U	NS	NS	<19.3 U	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<94.4 U	NS	NS	<96.6 U	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	<18.9 U	NS	NS	<19.3 U	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<9.4	NS	NS	<9.7	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<18.9 U	NS	NS	<19.3 U	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	<9.4 U	NS	NS	<9.7 U	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AH16-SB258 6-7.5 AH16-SB258 (6-7.5)- 122711-1 12/27/2011 SB41712	AOC-1 AH16-SB258 12-13 AH16-SB258 (12-13)- 122711-1 12/27/2011 SB41712	AOC-1 AH16-SS178 0-0.25 AH16-SS178 0-3 8/11/2011 SB33374	AOC-1 AH16-SS179 0-0.25 AH16 SS179 0-3 8/11/2011 SB33302	AOC-1 AH16-SS94 0-0.25 AH16 SS94 0-3 8/11/2011 SB33302	AOC-1 AH16-SS94 0-0.5 AH16-SS94-080411 8/4/2011 SB32875	AOC-1 AH17-SB352 1.5-2 AH17-SB352(1.5-2)- 040912-1 4/9/2012 SB46973	AOC-1 AH17-SB352 7-8 AH17-SB352(7-8)-040912- 1 4/9/2012 SB46973	AOC-1 AH17-SB352 12-13 AH17-SB352(12-13)- 040912-1 4/9/2012 SB46973	AOC-1 AH18-SB301 4-5 AH18-SB301(4-5)-021612- 1 2/16/2012 SB44035	AOC-1 AH18-SB301 8-10 AH18-SB301(8-10)- 021612-1 2/16/2012 SB44035	AOC-1 AH19-SB201 0-0.5 AH19-SB201(0-0.5)-1 10/2/2011 SB36674	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<b>1020000</b>	<b>46900</b>	<21.4 U	<23.3 U	<22.6 U	<410 U	<22.8 U	<21.9 U	<22.0 U	<213 U	<25.7 U	<10.6 U	
Aroclor 1248	NE	NE	NE	<25.8 U	<27.3 U	<b>117000</b>	<b>1640</b>	<b>18700</b>	<b>53000</b>	<b>591</b>	<b>314</b>	<b>1430</b>	<b>1090</b>	<25.7 U	<10.6 U	
Aroclor 1254	NE	NE	NE	<25.8 U	<27.3 U	<21.4 U	<23.3 U	<22.6 U	<410 U	<22.8 U	<21.9 U	<22.0 U	<213 U	<25.7 U	<10.6 U	
Aroclor 1260	NE	NE	NE	<b>5360</b>	<b>295</b>	<b>1550</b>	<b>93.6</b>	<b>810 J</b>	<410 U	<22.8 U	<21.9 U	<b>22</b>	<213 U	<25.7 U	<10.6 U	
Aroclor 1262	NE	NE	NE	<25.8 U	<27.3 U	<21.4 U	<23.3 U	<22.6 U	<410 U	<22.8 U	<21.9 U	<22.0 U	<213 U	<25.7 U	<10.6 U	
Total PCB Aroclors	NE	1000	10000	<b>1025360</b>	<b>47200</b>	<b>118550</b>	<b>1730</b>	<b>19510</b>	<b>53000</b>	<b>591</b>	<b>314</b>	<b>1450</b>	<b>1090</b>	<25.7 U	<10.6 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.51 U
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.32 U
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.51 U
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.32 U
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<21.3 U
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.32 U
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.51 U
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.32 U
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.51 U
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.32 U
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.51 U
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.

<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

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Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AH19-SB201 0-0.5  AH19-SB201(0-0.5)-2 10/2/2011 SB36674	AOC-1 AH19-SB201 3-3.5  AH19-SB201(3-3.5)-1 10/2/2011 SB36674	AOC-1 AH19-SB201 6-6.5  AH19-SB201(6-6.5)-1 10/2/2011 SB36674	AOC-1 AH19-SB201 11-11.5  AH19-SB201(11-11.5)-1 10/2/2011 SB36674	AOC-1 AH19-SB201 14.5-15  AH19-SB201(14.5-15)-1 10/2/2011 SB36674	AOC-1 AH20-SB300 1.5-2 021612-1 2/16/2012 SB44035	AOC-1 AH20-SB300 4-5 021612-1 2/16/2012 SB44035	AOC-1 AH20-SB300 6-7 021612-1 2/16/2012 SB44035	AOC-1 AH21A-SB218 1-2  AH21A-SB218(1-2)-1 11/13/2011 SB39231	AOC-1 AH21A-SB218 4-5  AH21A-SB218(4-5)-1 11/13/2011 SB39231	AOC-1 AH21A-SB218 5.5-6.5  AH21A-SB218(5.5-6.5)-1 11/13/2011 SB39231	AOC-1 AH21B-SB219 2-3  AH21B-SB219(2-3)-1 11/13/2011 SB39231	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	NS	NS	NS	738	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	NS	NS	NS	738	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	738	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 UJ	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	195	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	<127 U	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	<63.6 U DL	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	68.7	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	<1270 U	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	70	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	<127 U	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	134	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	146	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	267	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	<127 U	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	77.6	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	68.7	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	159	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	77.6	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	336	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	132	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	<63.6 U	NS	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<10.2 U	NS	<25.7 U	<23.8 U	<70.5 UJ	NS	<215 U	<212 U	<14.7 U	<14.1 U	<15.3 U	<29.4 U	
Aroclor 1248	NE	NE	NE	<10.2 U	NS	<b>3870 J</b>	<b>1240</b>	<70.5 UJ	NS	<b>1840</b>	<b>6240</b>	<14.7 U	<b>389</b>	<b>4030</b>	<29.4 U	
Aroclor 1254	NE	NE	NE	<10.2 U	NS	<25.7 U	<23.8 U	<70.5 UJ	NS	<215 U	<212 U	<14.7 U	<14.1 U	<15.3 U	<29.4 U	
Aroclor 1260	NE	NE	NE	<10.2 U	NS	<b>335 J</b>	<b>48.7</b>	<70.5 UJ	NS	<215 U	<b>397</b>	<b>15.5</b>	<b>21.1</b>	<b>49.7</b>	<29.4 U	
Aroclor 1262	NE	NE	NE	<10.2 U	NS	<25.7 U	<23.8 U	<70.5 UJ	NS	<215 U	<212 U	<14.7 U	<14.1 U	<15.3 U	<29.4 U	
Total PCB Aroclors	NE	1000	10000	<10.2 U	NS	<b>4210</b>	<b>1290</b>	<70.5 U	NS	<b>1840</b>	<b>6640</b>	<b>15.5</b>	<b>410</b>	<b>4079.7</b>	<29.4 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<8.17 U	NS	NS	NS	NS	<8.76 U	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<5.11 U	NS	NS	NS	NS	<5.48 U	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<8.17 U	NS	NS	NS	NS	<8.76 U	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<5.11 U	NS	NS	NS	NS	<5.48 U	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	<20.4 U	NS	NS	NS	NS	<21.9 U	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	<5.11 U	NS	NS	NS	NS	<5.48 U	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	<8.17 U	NS	NS	NS	NS	<8.76 U	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<5.11 U	NS	NS	NS	NS	<5.48 U	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	<8.17 U	NS	NS	NS	NS	<8.76 U	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	<5.11 U	NS	NS	NS	NS	<5.48 U	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	<8.17	NS	NS	NS	NS	<8.76	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Yellow highlighted cells exceed GA\_PMC-SPLP.

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GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1											
				AH21B-SB219 4-5 AH21B-SB219(4-5)-1 11/13/2011 SB39231	AH21B-SB219 6-7 AH21B-SB219(6-7)-1 11/13/2011 SB39231	AH21B-SB219 6-7 AH21B-SB219(6-7)-2 11/13/2011 SB39231	AH21C-SB220 2-3 AH21C-SB220(2-3)-1 11/13/2011 SB39231	AH21C-SB220 4-5 AH21C-SB220(4-5)-1 11/13/2011 SB39231	AH21C-SB220 5-6 AH21C-SB220(5-6)-1 11/13/2011 SB39231	AH21D-SB221 2-3 AH21D-SB221(2-3)-1 11/13/2011 SB39231	AH21D-SB221 4-5 AH21D-SB221(4-5)-1 11/13/2011 SB39231	AH21D-SB221 5-6 AH21D-SB221(5-6)-1 11/13/2011 SB39231	AH21E-SB222 2-3 AH21E-SB222(2-3)-1 11/13/2011 SB39231	AH21E-SB222 4-5 AH21E-SB222(4-5)-1 11/13/2011 SB39231	AH21E-SB222 5-6 AH21E-SB222(5-6)-1 11/13/2011 SB39231
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<14.8 U	<175 U	<846 U	<14.5 U	<14.8 U	<15.4 U	<29.7 U	<2260 U	<14.2 U	<21.8 U	<20.9 U	<22.3 U
Aroclor 1248	NE	NE	NE	<b>231</b>	<b>85800</b>	<b>77600</b>	<b>227</b>	<b>1310</b>	<b>2240</b>	<29.7 U	<b>72700</b>	<b>166</b>	<b>779</b>	<b>1900</b>	<22.3 U
Aroclor 1254	NE	NE	NE	<14.8 U	<175 U	<846 U	<14.5 U	<14.8 U	<15.4 U	<29.7 U	<2260 U	<14.2 U	<21.8 U	<20.9 U	<22.3 U
Aroclor 1260	NE	NE	NE	<b>48</b>	<b>1360</b>	<b>846</b>	<14.5 U	<b>505</b>	<b>97.1</b>	<29.7 U	<2260 U	<14.2 U	<b>70.8</b>	<b>52.2</b>	<22.3 U
Aroclor 1262	NE	NE	NE	<14.8 U	<175 U	<846 U	<14.5 U	<14.8 U	<15.4 U	<29.7 U	<2260 U	<14.2 U	<21.8 U	<20.9 U	<22.3 U
Total PCB Aroclors	NE	1000	10000	<b>279</b>	<b>87200</b>	<b>78400</b>	<b>227</b>	<b>1820</b>	<b>2340</b>	<29.7 U	<b>72700</b>	<b>166</b>	<b>850</b>	<b>1950</b>	<22.3 U
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS											
Aroclor 1248	NE	NE	NE	NS											
Aroclor 1260	NE	NE	NE	NS											
Total PCB Aroclors	0.0005	NE	NE	NS											
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS											
4,4-DDE (p,p)	NE	NE	NE	NS											
4,4-DDT (p,p)	3	1800	17000	NS											
alpha-Chlordane	NE	NE	NE	NS											
Chlordane	NE	490	2200	NS											
Dieldrin	7	38	360	NS											
Endrin (40)	40	20000	610000	NS											
gamma-Chlordane	NE	NE	NE	NS											
Methoxychlor	800	340000	10000000	NS											
Total Chlordanes	66	490	2200	NS											
Total DDx	NE	NE	NE	NS											
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS											
Dieldrin	NE	NE	NE	NS											
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS											

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Green highlighted cells exceed I/C DEC.

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GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1	AOC-1										
				AH21F-SB223 3-4 AH21F-SB223(3-4)-1 11/13/2011 SB39231	AH21F-SB223 4-5 AH21F-SB223(4-5)-1 11/13/2011 SB39231	AH21F-SB223 5-6 AH21F-SB223(5-6)-1 11/13/2011 SB39231	AH21G-SB224 2-3 AH21G-SB224(2-3)-1 11/13/2011 SB39231	AH21G-SB224 4-5 AH21G-SB224(4-5)-1 11/13/2011 SB39231	AH21G-SB224 6-7 AH21G-SB224(6-7)-1 11/13/2011 SB39231	AH21H-SB225 3-4 AH21H-SB225(3-4)-1 11/13/2011 SB39231	AH21H-SB225 4-5 AH21H-SB225(4-5)-1 11/13/2011 SB39231	AH21H-SB225 5-6 AH21H-SB225(5-6)-1 11/13/2011 SB39231	AH21H-SB225 5-6 AH21H-SB225(5-6)-2 11/13/2011 SB39231	AH21-SB206 0-0.5 AH21-SB206(0-0.5)-1 10/2/2011 SB36674	AH21-SB206 0-0.5 AH21-SB206(0-0.5)-2 10/2/2011 SB36674
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<44.1 U	<20.1 U	<21.6 U	<22.5 U	<21.5 U	<21.2 U	<20.8 U	<21.0 U	<24.0 U	<25.3 U	<10.9 U	<10.9 U
Aroclor 1248	NE	NE	NE	<44.1 U	<20.1 U	<21.6 U	<b>722</b>	<b>11200 J+</b>	<21.2 U	<20.8 U	<b>333</b>	<b>7500 J</b>	<b>20300 J</b>	<10.9 U	<10.9 U
Aroclor 1254	NE	NE	NE	<44.1 U	<20.1 U	<21.6 U	<22.5 U	<21.5 U	<21.2 U	<20.8 U	<21.0 U	<24.0 U	<25.3 U	<10.9 U	<10.9 U
Aroclor 1260	NE	NE	NE	<44.1 U	<20.1 U	<21.6 U	<b>29.2</b>	<b>531 J+</b>	<21.2 U	<20.8 U	<21.0 U	<b>149 J</b>	<b>430 J</b>	<10.9 U	<10.9 U
Aroclor 1262	NE	NE	NE	<44.1 U	<20.1 U	<21.6 U	<22.5 U	<21.5 U	<21.2 U	<20.8 U	<21.0 U	<24.0 U	<25.3 U	<10.9 U	<10.9 U
Total PCB Aroclors	NE	1000	10000	<44.1 U	<20.1 U	<21.6 U	<b>751</b>	<b>11731</b>	<21.2 U	<20.8 U	<b>333</b>	<b>7649</b>	<b>20591</b>	<10.9 U	<10.9 U
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS										
Aroclor 1248	NE	NE	NE	NS	NS										
Aroclor 1260	NE	NE	NE	NS	NS										
Total PCB Aroclors	0.0005	NE	NE	NS	NS										
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	<8.70 U	<8.72 U									
4,4-DDE (p,p)	NE	NE	NE	NS	<5.44 U	<5.45 U									
4,4-DDT (p,p)	3	1800	17000	NS	<8.70 U	<8.72 U									
alpha-Chlordane	NE	NE	NE	NS	<5.44 U	<5.45 U									
Chlordane	NE	490	2200	NS	<21.8 U	<21.8 U									
Dieldrin	7	38	360	NS	<5.44 U	<5.45 U									
Endrin (40)	40	20000	610000	NS	<8.70 U	<8.72 U									
gamma-Chlordane	NE	NE	NE	NS	<5.44 U	<5.45 U									
Methoxychlor	800	340000	10000000	NS	<b>30.5 J</b>	<b>13.7 J</b>									
Total Chlordanes	66	490	2200	NS	<5.44	<5.45									
Total DDx	NE	NE	NE	NS	<8.70	<8.72									
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS										
Dieldrin	NE	NE	NE	NS	NS										
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS										

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

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\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AH21-SB206 4-5 AH21-SB206(4-5)-1 10/2/2011 SB36674	AOC-1 AH21-SB206 8-9 AH21-SB206(8-9)-1 10/2/2011 SB36674	AOC-1 AH21-SB206 8-9 AH21-SB206(8-9)-2 10/2/2011 SB36674	AOC-1 AH21-SB206 11-12 AH21-SB206(11-12)-1 10/2/2011 SB36674	AOC-1 AH22-SB212 0-0.5 AH-22-SB212(0-0.5) 10/9/2011 SB37166	AOC-1 AH22-SB212 4-5 AH-22-SB212(4-5) 10/9/2011 SB37166	AOC-1 AH22-SB212 5.5-6 AH-22-SB212(5.5-6) 10/9/2011 SB37166	AOC-1 AH22-SB212 8-10 AH-22-SB212(8-10) 10/9/2011 SB37166	AOC-1 AH22-SB212 14-15 AH-22-SB212(14-15) 10/9/2011 SB37166	AOC-1 AH9-SS177 0-0.25 AH9 SS177 0-3 8/11/2011 SB33302	AOC-1 AI10-SB450 3-3.5 AI10-SB450(3-3.5)-071012-1 7/10/2012 SB52560	AOC-1 AI10-SB450 4-5 AI10-SB450(4-5)-071012-1 7/10/2012 SB52560	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<236 U	<21.7 U	<20.7 U	<35.9 U	<20.9 U	<20.9 U	<27.7 U	NS	<21.5 U	<24.2 U	<21.8 U	<22.8 U	
Aroclor 1248	NE	NE	NE	<b>18400</b>	<21.7 U	<20.7 U	<35.9 U	<20.9 U	<20.9 U	<27.7 U	NS	<21.5 U	<b>2040</b>	<b>2010</b>	<22.8 U	
Aroclor 1254	NE	NE	NE	<236 U	<21.7 U	<20.7 U	<35.9 U	<20.9 U	<20.9 U	<27.7 U	NS	<21.5 U	<24.2 U	<b>2280</b>	<22.8 U	
Aroclor 1260	NE	NE	NE	<b>354</b>	<21.7 U	<20.7 U	<35.9 U	<20.9 U	<b>74.2</b>	<b>452</b>	NS	<21.5 U	<24.2 U	<b>89.5</b>	<22.8 U	
Aroclor 1262	NE	NE	NE	<236 U	<21.7 U	<20.7 U	<35.9 U	<20.9 U	<20.9 U	<27.7 U	NS	<21.5 U	<24.2 U	<21.8 U	<22.8 U	
Total PCB Aroclors	NE	1000	10000	<b>18800</b>	<21.7 U	<20.7 U	<35.9 U	<20.9 U	<b>74.2</b>	<b>452</b>	NS	<21.5 U	<b>2040</b>	<b>4380</b>	<22.8 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	<0.0002 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	<b>0.00029 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	<0.0002 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	<b>0.00029</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 U	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>17.8 J</b>	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 U	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>52.5 J</b>	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>482</b>	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.44 U	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 U	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>47.4 J-</b>	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.3 U	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>99.9</b>	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>17.8</b>	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich High School  
Greenwich, CT**

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	<34.9 U	<40.5 U	NS	NS	1300	NS	NS	10800 J+	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	<34.9 U	<40.5 U	NS	NS	1300	NS	NS	10800 J+	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	<34.9 U	<40.5 U	NS	NS	1300	NS	NS	10800 J+	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 UJ	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	140 J	NS	NS	244	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	1170	NS	NS	4140	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	<272 U	NS	NS	<376 U	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	563	NS	NS	458	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	283	NS	NS	738	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	235	NS	NS	<188 U	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	290	NS	NS	218	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	<2720 U	NS	NS	<3760 UJ	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	<1360 U	NS	NS	<1880 U	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	<1360 U	NS	NS	<1880 UJ	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	231	NS	NS	<188 U	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	<272 U	NS	NS	<376 U	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	3310	NS	NS	16000	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	2040 J	NS	NS	1700	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	237	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	4750	NS	NS	2430	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<1360 U	NS	NS	<1880 UJ	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	<272 U	NS	NS	<376 U	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	3970	NS	NS	907	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	808	NS	NS	610	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	394	NS	NS	417	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	1110 J	NS	NS	1050	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	190	NS	NS	982	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	186	NS	NS	528	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	234	NS	NS	<188 U	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	<136 U	NS	NS	<188 U	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	719	NS	NS	569	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	3970	NS	NS	907	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	5860	NS	NS	3480	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	1780	NS	NS	2300	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	5070	NS	NS	3560	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	205 J	NS	NS	1620 J-	NS	NS	NS





**Soil Analytical Data  
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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<35.1 U	<22.2 U	<26.4 U	<29.3 U	<33.3 U	<21400 U	<24000 U	<22700 U	<22000 U	<237000 U	<30.5 U	<21.4 U	
Aroclor 1248	NE	NE	NE	<35.1 U	<b>2340</b>	<26.4 U	<29.3 U	<33.3 U	<b>673000</b>	<b>2000000</b>	<b>685000</b>	<b>638000</b>	<b>9500000</b>	<b>212</b>	<b>9700</b>	
Aroclor 1254	NE	NE	NE	<35.1 U	<b>1230</b>	<26.4 U	<29.3 U	<33.3 U	<21400 U	<24000 U	<22700 U	<22000 U	<237000 U	<30.5 U	<21.4 U	
Aroclor 1260	NE	NE	NE	<35.1 U	<b>55.6</b>	<26.4 U	<29.3 U	<33.3 U	<21400 U	<24000 U	<22700 U	<22000 U	<237000 U	<30.5 U	<b>190</b>	
Aroclor 1262	NE	NE	NE	<35.1 U	<22.2 U	<26.4 U	<29.3 U	<33.3 U	<21400 U	<24000 U	<22700 U	<22000 U	<237000 U	<30.5 U	<21.4 U	
Total PCB Aroclors	NE	1000	10000	<35.1 U	<b>3630</b>	<26.4 U	<29.3 U	<33.3 U	<b>673000</b>	<b>2000000</b>	<b>685000</b>	<b>638000</b>	<b>9500000</b>	<b>212</b>	<b>9982.8</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AI15-SS96 0-0.5 AI15-SS96-080511 8/5/2011 SB32945	AOC-1 AI16-SB356 4-4.5 AI16-SB356(4-4.5)-041012-1 4/10/2012 SB46973	AOC-1 AI16-SB356 5-6 AI16-SB356(5-6)-041012-1 4/10/2012 SB46973	AOC-1 AI16-SB356 12-12.7 AI16-SB356(12-12.7)- 041012-1 4/10/2012 SB46973	AOC-1 AI16-SS97 0-0.5 AI16-SS97-080411 8/4/2011 SB32875	AOC-1 AI16-SS97 0-0.5 AI16-SS97-080511 8/5/2011 SB32945	AOC-1 AI17-SB351 3.5-4 AI17-SB351(3.5-4)-040912-1 4/9/2012 SB46864	AOC-1 AI17-SB351 8-10 AI17-SB351(8-10)-040912-1 4/9/2012 SB46864	AOC-1 AI17-SB351 8-10 AI17-SB351(8-10)-040912-2 4/9/2012 SB46864	AOC-1 AI17-SB351 12-13 AI17-SB351(12-13)- 040912-1 4/9/2012 SB46864	AOC-1 AI18-SB303 4-5 AI18-SB303(4-5)-021612-1 2/16/2012 SB44035	AOC-1 AI18-SB303 6-7 AI18-SB303(6-7)-021612-1 2/16/2012 SB44035	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	2320	NS	NS	NS	NS	<15.7 U	26.9	NS	NS	NS	285
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	2320	NS	NS	NS	NS	<15.7 U	26.9	NS	NS	NS	285
Unidentified	NE	NE	NE	NS	NS	2320	NS	NS	NS	NS	<15.7 U	26.9	NS	NS	NS	285
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	<133 U	<178 U	NS	NS	NS	<11.6 UJ
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	<66.5 U DL	<89.0 U	NS	NS	NS	<5.8 U
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	<1330 U	<1780 U	NS	NS	NS	<116 U
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<665 U	<890 UJ	NS	NS	NS	<57.9 U
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<665 UJ	<890 UJ	NS	NS	NS	<57.9 U
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 UJ
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 UJ
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	<133 U	<178 U	NS	NS	NS	<11.6 U
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 UJ
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<133 U	<178 U	NS	NS	NS	<11.6 U
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<665 U	<890 U	NS	NS	NS	<57.9 U
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	<133 U	<178 U	NS	NS	NS	<11.6 U
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 UJ
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<66.5	<89.0	NS	NS	NS	<5.8
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<133 U	<178 U	NS	NS	NS	<11.6 U
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	<66.5 U	<89.0 U	NS	NS	NS	<5.8 U
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	<66.5 UJ	<89.0 UJ	NS	NS	NS	<5.8 U





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AI15-SS96 0-0.5 AI15-SS96-080511 8/5/2011 SB32945	AOC-1 AI16-SB356 4-4.5 AI16-SB356(4-4.5)-041012-1 4/10/2012 SB46973	AOC-1 AI16-SB356 5-6 AI16-SB356(5-6)-041012-1 4/10/2012 SB46973	AOC-1 AI16-SB356 12-12.7 AI16-SB356(12-12.7)- 041012-1 4/10/2012 SB46973	AOC-1 AI16-SS97 0-0.5 AI16-SS97-080411 8/4/2011 SB32875	AOC-1 AI16-SS97 0-0.5 AI16-SS97-080511 8/5/2011 SB32945	AOC-1 AI17-SB351 3.5-4 AI17-SB351(3.5-4)-040912-1 4/9/2012 SB46864	AOC-1 AI17-SB351 8-10 AI17-SB351(8-10)-040912-1 4/9/2012 SB46864	AOC-1 AI17-SB351 8-10 AI17-SB351(8-10)-040912-2 4/9/2012 SB46864	AOC-1 AI17-SB351 12-13 AI17-SB351(12-13)- 040912-1 4/9/2012 SB46864	AOC-1 AI18-SB303 4-5 AI18-SB303(4-5)-021612-1 2/16/2012 SB44035	AOC-1 AI18-SB303 6-7 AI18-SB303(6-7)-021612-1 2/16/2012 SB44035	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.5 U	<23700 U	<21500 U	<31.4 U	<233 U	<215 U	<23.1 U	<230 U	<222 U	<213 U	<21.9 U	<23.0 U	
Aroclor 1248	NE	NE	NE	<b>25800</b>	<b>1250000</b>	<b>1120000</b>	<b>441</b>	<b>8030</b>	<b>12500</b>	<b>244</b>	<230 U	<222 U	<213 U	<21.9 U	<23.0 U	
Aroclor 1254	NE	NE	NE	<20.5 U	<23700 U	<21500 U	<31.4 U	<233 U	<215 U	<23.1 U	<230 U	<222 U	<213 U	<21.9 U	<b>568</b>	
Aroclor 1260	NE	NE	NE	<b>202</b>	<b>29600</b>	<21500 U	<31.4 U	<233 U	<b>258</b>	<b>25.4</b>	<b>26.5</b>	<22.2 U	<b>22.4</b>	<21.9 U	<b>146</b>	
Aroclor 1262	NE	NE	NE	<20.5 U	<23700 U	<21500 U	<31.4 U	<233 U	<215 U	<23.1 U	<23.0 U	<22.2 U	<21.3 U	<21.9 U	<23.0 U	
Total PCB Aroclors	NE	1000	10000	<b>26002</b>	<b>1280000</b>	<b>1120000</b>	<b>441</b>	<b>8030</b>	<b>12800</b>	<b>269</b>	<b>26.5</b>	<222 U	<b>22.4</b>	<21.9 U	<b>714</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.

<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

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Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AI19-SB200 0-0.5  AI19-SB200(0-0.5)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 1-2  AI19-SB200(1-2)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 8-9  AI19-SB200(8-9)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 15-15.5  AI19-SB200(15-15.5)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 18-18.5  AI19-SB200(18-18.5)-1 10/2/2011 SB36674	AOC-1 AI20-SB299 2-2.5  AI20-SB299(2-2.5)-021612-1 2/16/2012 SB44035	AOC-1 AI20-SB299 3-4  AI20-SB299(3-4)-021612-1 2/16/2012 SB44035	AOC-1 AI21-SB211 0-0.5  AI-21-SB211(0-0.5) 10/9/2011 SB37166	AOC-1 AI21-SB211 4-5.5  AI-21-SB211(4.5-5) 10/9/2011 SB37166	AOC-1 AI21-SB211 6-8  AI-21-SB211(6-8) 10/9/2011 SB37166	AOC-1 AI21-SB211 6-8  AI-21-SB211(6-8) DUP 10/9/2011 SB37166	AOC-1 AI21-SB211 14-15  AI-21-SB211(14-15) 10/9/2011 SB37166	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	<29.2 U	<29.8 U	NS	NS	571	NS	NS	757	NS	NS	NS	930
Total Petroleum Hydrocarbons	500	500	2500	NS	<29.2 U	<29.8 U	NS	NS	571	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	<29.2 U	<29.8 U	NS	NS	571	NS	NS	757	NS	NS	NS	930
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	<10.2 UJ	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	<102 U	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	<51.1 U	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	110	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	<5.1 UJ	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	<5.1 UJ	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	<10.2 U	NS	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	<5.1 UJ	NS	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	<10.2 U	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	<51.1 U	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	<10.2 U	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	<5.1 UJ	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	<5.1	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	<10.2 U	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	<5.1 U	NS	NS	NS	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AI19-SB200 0-0.5 AI19-SB200(0-0.5)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 1-2 AI19-SB200(1-2)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 8-9 AI19-SB200(8-9)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 15-15.5 AI19-SB200(15-15.5)-1 10/2/2011 SB36674	AOC-1 AI19-SB200 18-18.5 AI19-SB200(18-18.5)-1 10/2/2011 SB36674	AOC-1 AI20-SB299 2-2.5 AI20-SB299(2-2.5)-021612-1 2/16/2012 SB44035	AOC-1 AI20-SB299 3-4 AI20-SB299(3-4)-021612-1 2/16/2012 SB44035	AOC-1 AI21-SB211 0-0.5 AI-21-SB211(0-0.5) 10/9/2011 SB37166	AOC-1 AI21-SB211 4-5.5 AI-21-SB211(4.5-5) 10/9/2011 SB37166	AOC-1 AI21-SB211 6-8 AI-21-SB211(6-8) 10/9/2011 SB37166	AOC-1 AI21-SB211 6-8 AI-21-SB211(6-8) DUP 10/9/2011 SB37166	AOC-1 AI21-SB211 14-15 AI-21-SB211(14-15) 10/9/2011 SB37166	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.5 U	NS	<22.5 U	<21.5 U	<76.2 UJ	<210 U	<21.3 U	<21.8 U	<26.2 U	<21.4 U	<21.0 U	<62.6 U	
Aroclor 1248	NE	NE	NE	<21.5 U	NS	<22.5 U	<21.5 U	<76.2 UJ	<210 U	<b>210</b>	<21.8 U	<b>5160</b>	<21.4 U	<21.0 U	<62.6 U	
Aroclor 1254	NE	NE	NE	<21.5 U	NS	<22.5 U	<21.5 U	<76.2 UJ	<210 U	<21.3 U	<21.8 U	<26.2 U	<21.4 U	<21.0 U	<62.6 U	
Aroclor 1260	NE	NE	NE	<21.5 U	NS	<22.5 U	<21.5 U	<76.2 UJ	<210 U	<21.3 U	<21.8 U	<b>464</b>	<21.4 U	<21.0 U	<62.6 U	
Aroclor 1262	NE	NE	NE	<21.5 U	NS	<22.5 U	<21.5 U	<76.2 UJ	<210 U	<21.3 U	<21.8 U	<26.2 U	<21.4 U	<21.0 U	<62.6 U	
Total PCB Aroclors	NE	1000	10000	<21.5 U	NS	<22.5 U	<21.5 U	<76.2 U	<210 U	<b>210</b>	<21.8 U	<b>5620</b>	<21.4 U	<21.0 U	<62.6 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

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**Bold = Detected above reporting limit**

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ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AI22-SB205 0-1 AI22-SB205(0-1)-1 10/2/2011 SB36674	AOC-1 AI22-SB205 2-3 AI22-SB205(2-3)-1 10/2/2011 SB36674	AOC-1 AI22-SB205 6-7 AI22-SB205(6-7)-1 10/2/2011 SB36674	AOC-1 AI22-SB205 9-10 AI22-SB205(9-10)-1 10/2/2011 SB36674	AOC-1 AI22-SB205 15-16 AI22-SB205(15-16)-1 10/2/2011 SB36674	AOC-1 AJ10-SS298 0-0.25 AJ10SS298 0-3-082311 8/23/2011 SB34022	AOC-1 AJ13-SB432 2-3 AJ13-SB432 (2-3) 070512- 1 7/5/2012 SB52304	AOC-1 AJ13-SB432 5-6 AJ13-SB432 (5-6) 070512- 1 7/5/2012 SB52304	AOC-1 AJ13-SB432 11.5-12.5 AJ13-SB432 (11.5-12.5) 070512-1 7/5/2012 SB52304	AOC-1 AJ14-SB433 1-1.3 AJ14-SB433 (1-1.3) 070512-1 7/5/2012 SB52304	AOC-1 AJ15-SB257 0-1 AJ15-SB257 (0-1)-122711- 1 12/27/2011 SB41712	AOC-1 AJ15-SB257 3-5 AJ15-SB257 (3-5)-122711- 1 12/27/2011 SB41712	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<10.6 U	NS	<31.2 U	<21.6 U	<21.3 U	<23.6 U	<23.1 U	<23.2 U	<23.0 U	<21.8 U	NS	<b>673000</b>	
Aroclor 1248	NE	NE	NE	<10.6 U	NS	<31.2 U	<21.6 U	<21.3 U	<23.6 U	<b>19500</b>	<b>387000</b>	<b>119</b>	<b>895</b>	NS	<22.5 U	
Aroclor 1254	NE	NE	NE	<10.6 U	NS	<31.2 U	<21.6 U	<21.3 U	<23.6 U	<23.1 U	<23.2 U	<23.0 U	<21.8 U	NS	<22.5 U	
Aroclor 1260	NE	NE	NE	<10.6 U	NS	<31.2 U	<21.6 U	<21.3 U	<23.6 U	<23.1 U	<23.2 U	<23.0 U	<21.8 U	NS	<b>5190 J</b>	
Aroclor 1262	NE	NE	NE	<10.6 U	NS	<31.2 U	<21.6 U	<21.3 U	<23.6 U	<23.1 U	<23.2 U	<23.0 U	<21.8 U	NS	<22.5 U	
Total PCB Aroclors	NE	1000	10000	<10.6 U	NS	<31.2 U	<21.6 U	<21.3 U	<23.6 U	<b>19500</b>	<b>387000</b>	<b>119</b>	<b>895</b>	NS	<b>678000</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<8.46 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.19 U	NS	
4,4-DDE (p,p)	NE	NE	NE	<5.29 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.74 U	NS	
4,4-DDT (p,p)	3	1800	17000	<8.46 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.19 U	NS	
alpha-Chlordane	NE	NE	NE	<5.29 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.74 U	NS	
Chlordane	NE	490	2200	<21.2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<23.0 U	NS	
Dieldrin	7	38	360	<5.29 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.74 U	NS	
Endrin (40)	40	20000	610000	<8.46 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.19 UJ	NS	
gamma-Chlordane	NE	NE	NE	<5.29 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.74 U	NS	
Methoxychlor	800	340000	10000000	<8.46 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.19 U	NS	
Total Chlordanes	66	490	2200	<5.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.74	NS	
Total DDx	NE	NE	NE	<8.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.19	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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\* = Criteria derived by SPLP only

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AJ15-SB257 3-5 AJ15-SB257 (3-5)-122711- 2 12/27/2011 SB41712	AOC-1 AJ15-SB257 5-6 AJ15-SB257 (5-6)-122711 1 12/27/2011 SB41712	AOC-1 AJ15-SS98 0-0.25 AJ15 SS98 0-3 8/11/2011 SB33302	AOC-1 AJ15-SS98 0-0.5 AJ15-SS98-080311 8/3/2011 SB32875	AOC-1 AJ16-SB103 1-2 AJ16 SB103 1-2 8/10/2011 SB33308	AOC-1 AJ16-SB103 2-3 AJ16 SB103 2-3 8/10/2011 SB33308	AOC-1 AJ16-SB103 3-4 AJ16 SB103 3-4 8/10/2011 SB33308	AOC-1 AJ16-SB103 5-6 AJ16 SB103 5-6 8/10/2011 SB33308	AOC-1 AJ16-SB103 6-7 AJ16 SB103 6-7 8/10/2011 SB33308	AOC-1 AJ16-SB103 7-8 AJ16 SB103 7-8 8/10/2011 SB33308	AOC-1 AJ16-SB103 11-12 AJ16 SB103 11-12 8/10/2011 SB33308	AOC-1 AJ16-SS99 0-0.5 AJ16-SS99-080411 8/4/2011 SB32875	
<b>VOC-SPLP (ug/L)</b>																
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>																
2-Methylnaphthalene	560	270000	1000000	<2160 U	NS	NS	NS	NS	8050	<930 U	NS	NS	<380 U	NS	NS	NS
Acenaphthene	8400	1000000	2500000	<2160 U	NS	NS	NS	NS	10700	<930 U	NS	NS	<380 U	NS	NS	NS
Acenaphthylene	8400	1000000	2500000	<2160 UJ	NS	NS	NS	NS	<3980 U	<930 U	NS	NS	<380 U	NS	NS	NS
Anthracene	40000	1000000	2500000	<2160 U	NS	NS	NS	NS	5810	<930 U	NS	NS	<380 U	NS	NS	NS
Benzo(a)anthracene	1000	1000	7800	2170	NS	NS	NS	NS	16400	<930 U	NS	NS	<380 U	NS	NS	NS
Benzo(a)pyrene	1000	1000	1000	<2160 U	NS	NS	NS	NS	15200	<930 UJ	NS	NS	<380 U	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	7800	<2160 U DL	NS	NS	NS	NS	14900	<930 UJ	NS	NS	<380 U	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	78000	<2160 U	NS	NS	NS	NS	5340	<930 UJ	NS	NS	<380 UJ	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	78000	<2160 UJ	NS	NS	NS	NS	14700	<930 UJ	NS	NS	<380 U	NS	NS	NS
Chrysene	1000	84000	780000	<2160 U	NS	NS	NS	NS	16200	<930 U	NS	NS	<380 U	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	1000	<2160 U	NS	NS	NS	NS	<3980 U	<930 UJ	NS	NS	<380 U	NS	NS	NS
Fluoranthene	5600	1000000	2500000	5040 J	NS	NS	NS	NS	26500	950	NS	NS	<380 U	NS	NS	NS
Fluorene	5600	1000000	2500000	<2160 UJ	NS	NS	NS	NS	8680	<930 U	NS	NS	<380 U	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	7800	<2160 U	NS	NS	NS	NS	5790	<930 UJ	NS	NS	<380 U	NS	NS	NS
Naphthalene	5600	1000000	2500000	5860	NS	NS	NS	NS	17400	<930 U	NS	NS	<380 U	NS	NS	NS
Phenanthrene	4000	1000000	2500000	5480 J	NS	NS	NS	NS	25500	<930 U	NS	NS	<380 U	NS	NS	NS
Pyrene	4000	1000000	2500000	4570	NS	NS	NS	NS	30600	1090	NS	NS	<380 U	NS	NS	NS
<b>SVOCs (ug/Kg)</b>																
1,2-Dichlorobenzene	3100	500000	1000000	<4320 U	NS	NS	NS	NS	NS	<1860 U	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	<4320 U	NS	NS	NS	NS	NS	<1860 U	NS	NS	NS	NS	NS	NS
1-Methylnaphthalene	200	21000	200000	<2160 U	NS	NS	NS	NS	6080	<930 U	NS	NS	<380 U	NS	NS	NS
2,4-Dichlorophenol	1000	200000	2500000	<2160 U	NS	NS	NS	NS	NS	<930 U	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	200	900	8400	<2160 U	NS	NS	NS	NS	NS	<930 U	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	200	900	8400	<2160 U	NS	NS	NS	NS	NS	<930 U	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1000	340000	2500000	<2160 U	NS	NS	NS	NS	NS	<930 U	NS	NS	NS	NS	NS	NS
3,3-Dichlorobenzidine	200	1400	13000	<4320 U	NS	NS	NS	NS	NS	<1860 UJ	NS	NS	NS	NS	NS	NS
Benzidine	200	200	200	<4320 UJ	NS	NS	NS	NS	NS	<1860 UJ	NS	NS	NS	NS	NS	NS
Bis(2-chloroethyl)ether	1000	1000	5200	<2160 U DL	NS	NS	NS	NS	NS	<930 U	NS	NS	NS	NS	NS	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	<2160 U	NS	NS	NS	NS	NS	<930 UJ	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	<2160 U	NS	NS	NS	NS	NS	<930 U	NS	NS	NS	NS	NS	NS
Di-n-octyl phthalate	2000	1000000	2500000	<4320 UJ	NS	NS	NS	NS	NS	<1860 UJ	NS	NS	NS	NS	NS	NS



**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AJ15-SB257 3-5 AJ15-SB257 (3-5)-122711- 2 12/27/2011 SB41712	AOC-1 AJ15-SB257 5-6 AJ15-SB257 (5-6)-122711 1 12/27/2011 SB41712	AOC-1 AJ15-SS98 0-0.25 AJ15 SS98 0-3 8/11/2011 SB33302	AOC-1 AJ15-SS98 0-0.5 AJ15-SS98-080311 8/3/2011 SB32875	AOC-1 AJ16-SB103 1-2 AJ16 SB103 1-2 8/10/2011 SB33308	AOC-1 AJ16-SB103 2-3 AJ16 SB103 2-3 8/10/2011 SB33308	AOC-1 AJ16-SB103 3-4 AJ16 SB103 3-4 8/10/2011 SB33308	AOC-1 AJ16-SB103 5-6 AJ16 SB103 5-6 8/10/2011 SB33308	AOC-1 AJ16-SB103 6-7 AJ16 SB103 6-7 8/10/2011 SB33308	AOC-1 AJ16-SB103 7-8 AJ16 SB103 7-8 8/10/2011 SB33308	AOC-1 AJ16-SB103 11-12 AJ16 SB103 11-12 8/10/2011 SB33308	AOC-1 AJ16-SS99 0-0.5 AJ16-SS99-080411 8/4/2011 SB32875	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<b>683000</b>	<b>89000</b>	<22.6 U	<21.8 U	<22.0 U	<23.3 U	<22.6 U	<23.5 U	<21.5 U	<21.9 U	<35.1 U	<209 U	
Aroclor 1248	NE	NE	NE	<25.8 U	<23.9 U	<b>17800</b>	<b>7390</b>	<b>182000</b>	<b>1730000</b>	<b>62600</b>	<b>90800</b>	<b>905</b>	<21.9 U	<35.1 U	<b>15900</b>	
Aroclor 1254	NE	NE	NE	<25.8 U	<23.9 U	<22.6 U	<21.8 U	<22.0 U	<23.3 U	<22.6 U	<23.5 U	<21.5 U	<21.9 U	<35.1 U	<209 U	
Aroclor 1260	NE	NE	NE	<b>8240</b>	<b>869</b>	<b>541</b>	<b>113</b>	<b>2770</b>	<46600 U	<b>592</b>	<b>1110</b>	<21.5 U	<21.9 U	<35.1 U	<b>314</b>	
Aroclor 1262	NE	NE	NE	<25.8 U	<23.9 U	<22.6 U	<21.8 U	<22.0 U	<23.3 U	<22.6 U	<23.5 U	<21.5 U	<21.9 U	<35.1 U	<209 U	
Total PCB Aroclors	NE	1000	10000	<b>691240</b>	<b>89869</b>	<b>18341</b>	<b>7503</b>	<b>184770</b>	<b>1730000</b>	<b>63192</b>	<b>91910</b>	<b>905</b>	<21.9 U	<35.1 U	<b>16200</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	<b>0.0657</b>	NS	NS	NS	NS	NS	<0.000571 U	<0.000211 U	<0.000211 U	NS	NS	NS	
Aroclor 1248	NE	NE	NE	<0.000211 U	NS	NS	NS	NS	NS	<b>0.00317</b>	<b>0.0137</b>	<b>0.00232</b>	NS	NS	NS	
Aroclor 1260	NE	NE	NE	<0.000211 U	NS	NS	NS	NS	NS	<0.000571 U	<0.000211 U	<0.000211 U	NS	NS	NS	
Total PCB Aroclors	0.0005	NE	NE	<b>0.0657</b>	NS	NS	NS	NS	NS	<b>0.00317</b>	<b>0.0137</b>	<b>0.00232</b>	NS	NS	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	<9.18 U	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	<5.73 U	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	<9.18 U	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	<5.73 U	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	<22.9 U	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	<5.73 U	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	<9.18 U	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	<5.73 U	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	<9.18 U	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	<5.73 U	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	<9.18	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AJ16-SS99 0-0.5 AJ16-SS99-080511 8/5/2011 SB32945	AOC-1 AJ17-SB350 4-4.5 AJ17-SB350(4-4.5)- 040912-1 4/9/2012 SB46864	AOC-1 AJ17-SB350 5-6 AJ17-SB350(5-6)-040912- 1 4/9/2012 SB46864	AOC-1 AJ17-SB350 12-13 AJ17-SB350(12-13)- 040912-1 4/9/2012 SB46864	AOC-1 AJ18-SB256 4-5 AJ18-SB256(4-5)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 5-7 AJ18-SB256(5-7)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 12-13 AJ18-SB256(12-13)- 122711-1 12/27/2011 SB41712	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 1 2/16/2012 SB44035	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 2 2/16/2012 SB44035	AOC-1 AJ19-SB298 9-10 AJ19-SB298(9-10)-021612- 1 2/16/2012 SB44035	AOC-1 AJ21-SB210 0-0.5 AJ-21-SB210(0-0.5) 10/9/2011 SB37166	AOC-1 AJ21-SB210 0-4 AJ-21-SB210(0-4) 10/9/2011 SB37166	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	398	NS	<30.6 U	69.6	NS	381 J	654 J	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	398	NS	<30.6 U	69.6	NS	381 J	654 J	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	398	NS	<30.6 U	69.6	NS	381 J	654 J	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	75.4	101 J+	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	<223 U	NS	NS	<10.8 U	NS	<11.1 U	<199 U	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	63.2	<99.7 U	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	<2230 U	NS	NS	<108 U	NS	<111 U	<1990 U	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	<1110 U	NS	NS	<54.0 U	NS	<55.4 U	<997 U	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	<1110 U	NS	NS	54.8	NS	<55.4 U	<997 U	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	<111 U	NS	NS	<5.4 U	NS	76.6	<99.7 U	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	<223 U	NS	NS	<10.8 U	NS	<11.1 U	<199 U	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	206	248 J+	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	91.8	124 J+	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	<223 U	NS	NS	<10.8 U	NS	167	<199 U	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	<1110 U	NS	NS	<54.0 U	NS	<55.4 U	<997 U	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	<223 U	NS	NS	<10.8 U	NS	<11.1 U	<199 U	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	<111 U	NS	NS	<5.4 U	NS	100	<99.7 U	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	111 J+	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	<111 U	NS	NS	<5.4 U	NS	98.3	105 J+	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	108	147 J+	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	<111	NS	NS	<5.4	NS	100	<99.7	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	<223 U	NS	NS	<10.8 U	NS	167	<199 U	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	<111 U	NS	NS	<5.4 U	NS	119	114 J+	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	<111 U	NS	NS	<5.4 U	NS	211	199 J+	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	<111 U	NS	NS	<5.4 U	NS	<5.5 U	<99.7 U	NS	NS	NS	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AJ16-SS99 0-0.5 AJ16-SS99-080511 8/5/2011 SB32945	AOC-1 AJ17-SB350 4-4.5 AJ17-SB350(4-4.5)- 040912-1 4/9/2012 SB46864	AOC-1 AJ17-SB350 5-6 AJ17-SB350(5-6)-040912- 1 4/9/2012 SB46864	AOC-1 AJ17-SB350 12-13 AJ17-SB350(12-13)- 040912-1 4/9/2012 SB46864	AOC-1 AJ18-SB256 4-5 AJ18-SB256(4-5)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 5-7 AJ18-SB256(5-7)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 12-13 AJ18-SB256(12-13)- 122711-1 12/27/2011 SB41712	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 1 2/16/2012 SB44035	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 2 2/16/2012 SB44035	AOC-1 AJ19-SB298 9-10 AJ19-SB298(9-10)-021612- 1 2/16/2012 SB44035	AOC-1 AJ21-SB210 0-0.5 AJ21-SB210(0-0.5) 10/9/2011 SB37166	AOC-1 AJ21-SB210 0-4 AJ21-SB210(0-4) 10/9/2011 SB37166	
<b>VOC-SPLP (ug/L)</b>																
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>																
2-Methylnaphthalene	560	270000	1000000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Acenaphthene	8400	1000000	2500000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Acenaphthylene	8400	1000000	2500000	NS	NS	<455 U	NS	NS	<359 UJ	NS	<1920 U	<774 U	NS	NS	NS	NS
Anthracene	40000	1000000	2500000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 UJ	<774 UJ	NS	NS	NS	NS
Benzo(a)anthracene	1000	1000	7800	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U DL	<774 U	NS	NS	NS	NS
Benzo(a)pyrene	1000	1000	1000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	7800	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U DL	<774 U	NS	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	78000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	78000	NS	NS	<455 U	NS	NS	<359 UJ	NS	<1920 U	<774 U	NS	NS	NS	NS
Chrysene	1000	84000	780000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	1000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Fluoranthene	5600	1000000	2500000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Fluorene	5600	1000000	2500000	NS	NS	<455 U	NS	NS	<359 UJ	NS	<1920 U	<774 U	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	7800	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Phenanthrene	4000	1000000	2500000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
Pyrene	4000	1000000	2500000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
<b>SVOCs (ug/Kg)</b>																
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	<718 U	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	<718 U	NS	NS	NS	NS	NS	NS	NS
1-Methylnaphthalene	200	21000	200000	NS	NS	<455 U	NS	NS	<359 U	NS	<1920 U	<774 U	NS	NS	NS	NS
2,4-Dichlorophenol	1000	200000	2500000	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1000	340000	2500000	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
3,3-Dichlorobenzidine	200	1400	13000	NS	NS	NS	NS	NS	<718 U	NS	NS	NS	NS	NS	NS	NS
Benzidine	200	200	200	NS	NS	NS	NS	NS	<718 UJ	NS	NS	NS	NS	NS	NS	NS
Bis(2-chloroethyl)ether	1000	1000	5200	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
Di-n-octyl phthalate	2000	1000000	2500000	NS	NS	NS	NS	NS	<718 UJ	NS	NS	NS	NS	NS	NS	NS

**Soil Analytical Data  
Greenwich High School  
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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AJ16-SS99 0-0.5 AJ16-SS99-080511 8/5/2011 SB32945	AOC-1 AJ17-SB350 4-4.5 AJ17-SB350(4-4.5)- 040912-1 4/9/2012 SB46864	AOC-1 AJ17-SB350 5-6 AJ17-SB350(5-6)-040912- 1 4/9/2012 SB46864	AOC-1 AJ17-SB350 12-13 AJ17-SB350(12-13)- 040912-1 4/9/2012 SB46864	AOC-1 AJ18-SB256 4-5 AJ18-SB256 (4-5)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 5-7 AJ18-SB256 (5-7)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 12-13 AJ18-SB256 (12-13)- 122711-1 12/27/2011 SB41712	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 1 2/16/2012 SB44035	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 2 2/16/2012 SB44035	AOC-1 AJ19-SB298 9-10 AJ19-SB298(9-10)-021612- 1 2/16/2012 SB44035	AOC-1 AJ21-SB210 0-0.5 AJ21-SB210(0-0.5) 10/9/2011 SB37166	AOC-1 AJ21-SB210 0-4 AJ21-SB210(0-4) 10/9/2011 SB37166	
<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
Methanamine, n-methyl-n-nitrosoc	NE	200	360	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	<359 U	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	<718 U	NS	NS	NS	NS	NS	NS	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	NS	<5.44 U	<5.91 U	<5.51 U	<5.42 UJ	NS	NS	<5.50 UJ	<5.13 UJ	<5.37 UJ	NS	<5.24 U	
Arsenic	NE	10	10	NS	<b>3.61</b>	<b>3.91</b>	<b>2.53</b>	<b>2.83 J</b>	NS	NS	<b>9.46</b>	<b>9.77</b>	<1.61 U	NS	<b>10</b>	
Barium	NE	4700	140000	NS	<b>153</b>	<b>199</b>	<b>80.1</b>	<b>111 J</b>	NS	NS	<b>422 J+</b>	<b>415 J+</b>	<b>60.0 J+</b>	NS	<b>99.6</b>	
Beryllium	NE	2	2	NS	<b>0.762</b>	<b>0.785</b>	<0.551 U	<b>0.689</b>	NS	NS	<0.550 U	<b>0.549</b>	<0.537 U	NS	<0.524 U	
Cadmium	NE	34	1000	NS	<0.544 U	<0.591 U	<0.551 U	<b>1.44 J</b>	NS	NS	<b>3.8</b>	<b>4.01</b>	<0.537 U	NS	<0.524 U	
Chromium	NE	NE	NE	NS	<b>32.7</b>	<b>43.7</b>	<b>20.7</b>	<b>34.8 J</b>	NS	NS	<b>65.8</b>	<b>75.4</b>	<b>14.5</b>	NS	<b>22</b>	
Copper	NE	2500	76000	NS	<b>11.2</b>	<b>17.6</b>	<b>13.3</b>	<b>18.9 J</b>	NS	NS	<b>249</b>	<b>253</b>	<b>12.3</b>	NS	<b>15.4</b>	
Lead	NE	400	1000	NS	<b>25.7 J</b>	<b>21.5 J</b>	<b>16.1 J</b>	<b>28.8 J</b>	NS	NS	<b>736</b>	<b>966</b>	<b>12.6</b>	NS	<b>148</b>	
Mercury	NE	20	610	NS	<b>0.07</b>	<b>0.078</b>	<0.0335 U	<0.0334 U	NS	NS	<b>0.294 J</b>	<b>0.543 J</b>	<0.0317 U	NS	<b>0.153</b>	
Nickel	NE	1400	7500	NS	<b>18.1</b>	<b>23</b>	<b>19.6</b>	<b>19.2 J</b>	NS	NS	<b>47.8</b>	<b>45.9</b>	<b>12.3</b>	NS	<b>13.8</b>	
Selenium	NE	340	10000	NS	<1.63 U	<1.77 U	<1.65 U	<1.63 U	NS	NS	<1.65 U	<1.54 U	<1.61 U	NS	<2.15 U	
Silver	NE	340	10000	NS	<1.63 U	<1.77 U	<1.65 U	<1.63 UJ	NS	NS	<b>1.77</b>	<b>2.18</b>	<1.61 U	NS	<1.57 U	
Thallium	NE	5.4	160	NS	<3.27 U	<3.54 U	<3.31 U	<3.25 U	NS	NS	<3.30 U	<b>3.8</b>	<3.22 U	NS	<3.15 U	
Vanadium	NE	470	14000	NS	<b>26.5</b>	<b>39</b>	<b>17</b>	<b>32.0 J</b>	NS	NS	<b>44.3</b>	<b>46.6</b>	<b>17.7</b>	NS	<b>22.9</b>	
Zinc	NE	20000	610000	NS	<b>52.5</b>	<b>61.9</b>	<b>29.2</b>	<b>63.8 J</b>	NS	NS	<b>1070</b>	<b>1100</b>	<b>28.1</b>	NS	<b>82.6</b>	
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	<1.00 UJ	NS	NS	NS	NS	NS	NS	NS

**Soil Analytical Data  
Greenwich High School  
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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AJ16-SS99 0-0.5 AJ16-SS99-080511 8/5/2011 SB32945	AOC-1 AJ17-SB350 4-4.5 AJ17-SB350(4-4.5)- 040912-1 4/9/2012 SB46864	AOC-1 AJ17-SB350 5-6 AJ17-SB350(5-6)-040912- 1 4/9/2012 SB46864	AOC-1 AJ17-SB350 12-13 AJ17-SB350(12-13)- 040912-1 4/9/2012 SB46864	AOC-1 AJ18-SB256 4-5 AJ18-SB256(4-5)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 5-7 AJ18-SB256(5-7)-122711- 1 12/27/2011 SB41712	AOC-1 AJ18-SB256 12-13 AJ18-SB256(12-13)- 122711-1 12/27/2011 SB41712	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 1 2/16/2012 SB44035	AOC-1 AJ19-SB298 3-5 AJ19-SB298(3-5)-021612- 2 2/16/2012 SB44035	AOC-1 AJ19-SB298 9-10 AJ19-SB298(9-10)-021612- 1 2/16/2012 SB44035	AOC-1 AJ21-SB210 0-0.5 AJ-21-SB210(0-0.5) 10/9/2011 SB37166	AOC-1 AJ21-SB210 0-4 AJ-21-SB210(0-4) 10/9/2011 SB37166	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.9 U	<23.3 U	<27.3 U	<21.2 U	<110 U	<21.5 U	<41.9 U	<1150 U	<1190 U	<20.6 U	<20.8 U	NS	
Aroclor 1248	NE	NE	NE	<b>12500</b>	<b>3320</b>	<b>43300</b>	<b>786</b>	<110 U	<21.5 U	<41.9 U	<b>24500</b>	<b>16500</b>	<20.6 U	<20.8 U	NS	
Aroclor 1254	NE	NE	NE	<20.9 U	<23.3 U	<27.3 U	<21.2 U	<110 U	<21.5 U	<41.9 U	<1150 U	<1190 U	<20.6 U	<20.8 U	NS	
Aroclor 1260	NE	NE	NE	<b>403</b>	<b>84</b>	<b>247</b>	<21.2 U	<110 U	<21.5 U	<41.9 U	<1150 U	<1190 U	<20.6 U	<20.8 U	NS	
Aroclor 1262	NE	NE	NE	<20.9 U	<23.3 U	<27.3 U	<21.2 U	<110 U	<21.5 U	<41.9 U	<1150 U	<1190 U	<20.6 U	<20.8 U	NS	
Total PCB Aroclors	NE	1000	10000	<b>12903</b>	<b>3400</b>	<b>43547</b>	<b>786</b>	<110 U	<21.5 U	<41.9 U	<b>24500</b>	<b>16500</b>	<20.6 U	<20.8 U	NS	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

**Notes:**

This is a summary table. Only detected chemicals are presented.

<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AJ21-SB210 4.5-5.5 AJ-21-SB210(4.5-5.5) 10/9/2011 SB37166	AOC-1 AJ21-SB210 5-9 AJ-21-SB210(5-9) 10/9/2011 SB37166	AOC-1 AJ21-SB210 6-7 AJ-21-SB210(6-7) 10/9/2011 SB37166	AOC-1 AJ21-SB210 14-15 AJ-21-SB210(14-15) 10/9/2011 SB37166	AOC-1 AJ22-SB209 0-0.5 AJ-22-SB209(0-0.5) 10/9/2011 SB37166	AOC-1 AJ22-SB209 1-3 AJ-22-SB209(1-3) 10/9/2011 SB37166	AOC-1 AJ22-SB209 5-6 AJ-22-SB209(5-6) 10/9/2011 SB37166	AOC-1 AJ22-SB209 7-8 AJ-22-SB209(7-8) 10/9/2011 SB37166	AOC-1 AK10-SB276 0-1 AK10-SB276(0-1)-122911- 1 12/29/2011 SB41766	AOC-1 AK10-SB276 2.5-3.5 AK10-SB276(2.5-3.5)- 122911-1 12/29/2011 SB41766	AOC-1 AK10-SB276 5-6 AK10-SB276(5-6)-122911- 1 12/29/2011 SB41766	AOC-1 AK10-SS100 0-0.25 AK10SS100 0-3 8/31/2011 SB34491	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.7 U	NS	<21.2 U	<62.6 U	<21.6 U	<21.5 U	<22.7 U	<32.5 U	NS	<24.3 U	<23.9 U	<23.9	
Aroclor 1248	NE	NE	NE	<b>1390</b>	NS	<21.2 U	<62.6 U	<21.6 U	<b>106</b>	<b>138</b>	<32.5 U	NS	<24.3 U	<23.9 U	<23.9	
Aroclor 1254	NE	NE	NE	<20.7 U	NS	<21.2 U	<62.6 U	<21.6 U	<21.5 U	<22.7 U	<32.5 U	NS	<24.3 U	<23.9 U	<23.9	
Aroclor 1260	NE	NE	NE	<b>30.5</b>	NS	<21.2 U	<62.6 U	<b>34.8</b>	<21.5 U	<22.7 U	<32.5 U	NS	<24.3 U	<23.9 U	<23.9	
Aroclor 1262	NE	NE	NE	<20.7 U	NS	<21.2 U	<62.6 U	<21.6 U	<21.5 U	<22.7 U	<32.5 U	NS	<24.3 U	<23.9 U	<23.9	
Total PCB Aroclors	NE	1000	10000	<b>1420</b>	NS	<21.2 U	<62.6 U	<b>34.8</b>	<b>106</b>	<b>138</b>	<32.5 U	NS	<24.3 U	<23.9 U	<23.9 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<10.1 U	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>&lt;6.29 U</b>	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	<10.1 U	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>26.6 J</b>	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	<b>169</b>	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	<6.29 U	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	<10.1 U	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>23</b>	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	<10.1 U	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	<b>49.6</b>	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<6.29	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.

<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AK10-SS100 0-0.5 AK10-SS100-080411 8/4/2011 SB32875	AOC-1 AK11-SB431 3-4 AK11-SB431 (3-4) 070512-1 7/5/2012 SB52304	AOC-1 AK11-SB431 7-8 AK11-SB431 (7-8) 070512-1 7/5/2012 SB52304	AOC-1 AK11-SB431 11.5-12.5 AK11-SB431 (11.5-12.5) 070512-1 7/5/2012 SB52304	AOC-1 AK13-SB430 1-2 AK13-SB430 (1-2) 070512-1 7/5/2012 SB52304	AOC-1 AK14-SB429 2-2.5 AK14-SB429 (2-2.5) 070512-1 7/5/2012 SB52304	AOC-1 AK14-SB429 5-6 AK14-SB429 (5-6) 070512-1 7/5/2012 SB52304	AOC-1 AK14-SB429 11.5-12.5 AK14-SB429 (11.5-12.5) 070512-1 7/5/2012 SB52304	AOC-1 AK15-SB440 1-2 AK15-SB440(1-2) 070612-1 7/6/2012 SB52371	AOC-1 AK15-SB440 2-3.5 AK15-SB440(2-3.5) 070612-1 7/6/2012 SB52371	AOC-1 AK15-SB440 13-14 AK15-SB440(13-14) 070612-1 7/6/2012 SB52371	AOC-1 AK16-SB483 1-2 AK16-SB483 (1-2) 071212-1 7/12/2012 SB52798	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	349	NS	<30.2 U	NS	174	NS	NS	3420	NS	NS	
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	349	NS	<30.2 U	NS	174	NS	NS	3420	NS	NS	
Unidentified	NE	NE	NE	NS	NS	349	NS	<30.2 U	NS	174	NS	NS	3420	NS	NS	
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 UJ	NS	NS	
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	681	NS	NS	
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	<229 U	NS	NS	
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	622	NS	NS	
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	176	NS	NS	
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	209	NS	NS	
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	NS	297	NS	NS	
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2290 U	NS	NS	
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1150 U	NS	NS	
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1150 U	NS	NS	
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	338	NS	NS	
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<229 U	NS	NS	
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	835 J	NS	NS	
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	524	NS	NS	
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	1870	NS	NS	
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1150 U	NS	NS	
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<229 U	NS	NS	
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	27500	NS	NS	
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	3510	NS	NS	
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	955	NS	NS	
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	241 J	NS	NS	
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	957	NS	NS	
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	1640	NS	NS	
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	316	NS	NS	
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	447	NS	NS	
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	27500	NS	NS	
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	2110	NS	NS	
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	225	NS	NS	
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 U	NS	NS	
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<115 UJ	NS	NS	





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AK10-SS100 0-0.5 AK10-SS100-080411 8/4/2011 SB32875	AOC-1 AK11-SB431 3-4 AK11-SB431 (3-4) 070512-1 7/5/2012 SB52304	AOC-1 AK11-SB431 7-8 AK11-SB431 (7-8) 070512-1 7/5/2012 SB52304	AOC-1 AK11-SB431 11.5-12.5 AK11-SB431 (11.5-12.5) 070512-1 7/5/2012 SB52304	AOC-1 AK13-SB430 1-2 AK13-SB430 (1-2) 070512-1 7/5/2012 SB52304	AOC-1 AK14-SB429 2-2.5 AK14-SB429 (2-2.5) 070512-1 7/5/2012 SB52304	AOC-1 AK14-SB429 5-6 AK14-SB429 (5-6) 070512-1 7/5/2012 SB52304	AOC-1 AK14-SB429 11.5-12.5 AK14-SB429 (11.5-12.5) 070512-1 7/5/2012 SB52304	AOC-1 AK15-SB440 1-2 AK15-SB440(1-2) 070612-1 7/6/2012 SB52371	AOC-1 AK15-SB440 2-3.5 AK15-SB440(2-3.5) 070612-1 7/6/2012 SB52371	AOC-1 AK15-SB440 13-14 AK15-SB440(13-14) 070612-1 7/6/2012 SB52371	AOC-1 AK16-SB483 1-2 AK16-SB483 (1-2) 071212-1 7/12/2012 SB52798	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.8 U	<24.3 U	<22.2 U	<21.2 U	<22.6 U	<24.3 U	<24.2 U	<24.4 U	<21.3 U	<22700 U	<30.3 U	<22.9 U	
Aroclor 1248	NE	NE	NE	<21.8 U	<24.3 U	<22.2 U	<b>38.1</b>	<b>608</b>	<b>1280000</b>	<b>118000</b>	<b>79.2</b>	<b>3500</b>	<b>713000</b>	<b>219</b>	<b>2650</b>	
Aroclor 1254	NE	NE	NE	<21.8 U	<24.3 U	<22.2 U	<21.2 U	<22.6 U	<24.3 U	<24.2 U	<24.4 U	<21.3 U	<22700 U	<30.3 U	<22.9 U	
Aroclor 1260	NE	NE	NE	<21.8 U	<24.3 U	<22.2 U	<21.2 U	<22.6 U	<24.3 U	<24.2 U	<24.4 U	<b>123</b>	<22700 U	<30.3 U	<b>342 J</b>	
Aroclor 1262	NE	NE	NE	<21.8 U	<24.3 U	<22.2 U	<21.2 U	<22.6 U	<24.3 U	<24.2 U	<24.4 U	<21.3 U	<22700 U	<30.3 U	<22.9 U	
Total PCB Aroclors	NE	1000	10000	<21.8 U	<24.3 U	<22.2 U	<b>38.1</b>	<b>608</b>	<b>1280000</b>	<b>118000</b>	<b>79.2</b>	<b>3620</b>	<b>713000</b>	<b>219</b>	<b>2990</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AK16-SB483 3-4 AK16-SB483 (3-4)-071212 1 7/12/2012 SB52798	AOC-1 AK16-SB483 6-7 AK16-SB483 (6-7)-071212 1 7/12/2012 SB52798	AOC-1 AK16-SS101 0-0.5 AK16-SS101-080311 8/3/2011 SB32875	AOC-1 AK16-SS101 0-0.5 AK16-SS101-080511 8/5/2011 SB32945	AOC-1 AK17-SB441 1-2 AK17-SB441(1-2) 070612- 1 7/6/2012 SB52371	AOC-1 AK17-SB441 7-8 AK17-SB441(7-8) 070612- 1 7/6/2012 SB52371	AOC-1 AK17-SB441 13-14 AK17-SB441(13-14) 070612-1 7/6/2012 SB52371	AOC-1 AK17-SS102 0-0.25 AK17 SS102 0-3 8/11/2011 SB33302	AOC-1 AK17-SS102 0-0.5 AK17-SS102-080311 8/3/2011 SB32875	AOC-1 AK19-SB485 4-5 AK19-SB485 (4-5)-071312 1 7/13/2012 SB52798	AOC-1 AK19-SB485 6-7 AK19-SB485 (6-7)-071312- 1 7/13/2012 SB52798	AOC-1 AK19-SB485 13-14 AK19-SB485 (13-14)- 071312-1 7/13/2012 SB52798	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<24100 U	<b>578</b>	<20.9 U	<22.8 U	<21.4 U	<410 U	<55.5 U	<22.5 U	<20.8 U	<22.3 U	<20.4 U	<37.6 U	
Aroclor 1248	NE	NE	NE	<b>2210000</b>	<24.8 U	<b>820</b>	<b>278</b>	<b>278 J</b>	<b>16800</b>	<b>169</b>	<b>1450</b>	<b>8960</b>	<22.3 U	<20.4 U	<37.6 U	
Aroclor 1254	NE	NE	NE	<24100 U	<24.8 U	<20.9 U	<22.8 U	<b>124</b>	<410 U	<55.5 U	<22.5 U	<20.8 U	<22.3 U	<20.4 U	<37.6 U	
Aroclor 1260	NE	NE	NE	<b>27800</b>	<24.8 U	<20.9 U	<b>26.3</b>	<21.4 UJ	<410 U	<55.5 U	<b>56.2</b>	<b>562</b>	<22.3 U	<20.4 U	<37.6 U	
Aroclor 1262	NE	NE	NE	<24100 U	<24.8 U	<20.9 U	<22.8 U	<21.4 U	<410 U	<55.5 U	<22.5 U	<20.8 U	<22.3 U	<20.4 U	<37.6 U	
Total PCB Aroclors	NE	1000	10000	<b>2237800</b>	<b>578</b>	<b>820</b>	<b>304</b>	<b>402</b>	<b>16800</b>	<b>169</b>	<b>1510</b>	<b>9520</b>	<22.3 U	<20.4 U	<37.6 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<7.22 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<b>8.34 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<7.22 R	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>14.2 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>116</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<4.51 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<7.22 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>16.8</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<7.22 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>31</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<b>8.34</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS

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ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AL10-SS176 0-0.25 AL10 SS176 0-3 8/11/2011 SB33302	AOC-1 AL13-SB439 2-3 AL13-SB439(2-3)070612-1 7/6/2012 SB52371	AOC-1 AL13-SB439 3-4 AL13-SB439(3-4)070612-1 7/6/2012 SB52371	AOC-1 AL15-SB480 7-8 AL15-SB480 (7-8)-071212-1 7/12/2012 SB52798	AOC-1 AL15-SB480 11-12 AL15-SB480 (11-12)- 071212-1 7/12/2012 SB52798	AOC-1 AL16-SB486 4-5 AL16-SB486 (4-5)-071312-1 7/13/2012 SB52798	AOC-1 AL16-SB486 7-8 AL16-SB486 (7-8)-071312-1 7/13/2012 SB52798	AOC-1 AL16-SB486 8-9 AL16-SB486 (8-9)-071312-1 7/13/2012 SB52798	AOC-1 AL16-SS103 0-0.5 AL16-SS103-080311 8/3/2011 SB32768	AOC-1 AL16-SS103 0-0.5 AL16-SS103-080511 8/5/2011 SB32945	AOC-1 AL17-SB271 0-1 AL17-SB271(0-1)-122811-1 12/28/2011 SB41766	AOC-1 AL17-SB271 2-3 AL17-SB271(2-3)-122811-1 12/28/2011 SB41766	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<22.6 U	<22.9 U	<121 U	<57.3 U	<23.3 U	<21.8 U	<26.2 U	<28.5 U	<23.7 U	<24.6 U	NS	<445 U	
Aroclor 1248	NE	NE	NE	<b>1370</b>	<b>2440</b>	<121 U	<57.3 U	<b>186</b>	<b>109</b>	<b>97.1</b>	<b>259</b>	<b>5610</b>	<b>206</b>	NS	<445 U	
Aroclor 1254	NE	NE	NE	<22.6 U	<22.9 U	<24.3 U	<28.7 U	<23.3 U	<21.8 U	<26.2 U	<28.5 U	<23.7 U	<24.6 U	NS	<445 U	
Aroclor 1260	NE	NE	NE	<22.6 U	<b>133</b>	<24.3 U	<28.7 U	<23.3 U	<21.8 U	<26.2 U	<b>32.8</b>	<b>251</b>	<b>45.3</b>	NS	<445 U	
Aroclor 1262	NE	NE	NE	<22.6 U	<22.9 U	<24.3 U	<28.7 U	<23.3 U	<21.8 U	<26.2 U	<28.5 U	<23.7 U	<24.6 U	NS	<445 U	
Total PCB Aroclors	NE	1000	10000	<b>1370</b>	<b>2570</b>	<121 U	<57.3 U	<b>186</b>	<b>109</b>	<b>97.1</b>	<b>291.8</b>	<b>5861</b>	<b>251</b>	NS	<445 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<9.38 U	NS	NS	NS	NS	NS	NS	NS	<9.53 U	<9.53 R	<10.5 U	NS	
4,4-DDE (p,p)	NE	NE	NE	<5.86 U	NS	NS	NS	NS	NS	NS	NS	<b>30.2</b>	<5.96 R	<6.56 U	NS	
4,4-DDT (p,p)	3	1800	17000	<9.38 U	NS	NS	NS	NS	NS	NS	NS	<9.53 U	<9.53 R	<10.5 U	NS	
alpha-Chlordane	NE	NE	NE	<b>23.5 J</b>	NS	NS	NS	NS	NS	NS	NS	<b>63.1 J</b>	<b>28.8 J</b>	<6.56 U	NS	
Chlordane	NE	490	2200	<b>220 J</b>	NS	NS	NS	NS	NS	NS	NS	<b>2270</b>	<b>157 J-</b>	<26.2 U	NS	
Dieldrin	7	38	360	<5.86 U	NS	NS	NS	NS	NS	NS	NS	<5.96 U	<5.96 R	<6.56 U	NS	
Endrin (40)	40	20000	610000	<9.38 U	NS	NS	NS	NS	NS	NS	NS	<b>10.9</b>	<9.53 R	<10.5 U	NS	
gamma-Chlordane	NE	NE	NE	<b>20.3 J</b>	NS	NS	NS	NS	NS	NS	NS	<b>81.3</b>	<b>26.9 J-</b>	<6.56 U	NS	
Methoxychlor	800	340000	10000000	<9.38 U	NS	NS	NS	NS	NS	NS	NS	<9.53 U	<9.53 R	<10.5 U	NS	
Total Chlordanes	66	490	2200	<b>43.8</b>	NS	NS	NS	NS	NS	NS	NS	<b>144.4</b>	<b>55.7</b>	<6.56 U	NS	
Total DDx	NE	NE	NE	<9.38	NS	NS	NS	NS	NS	NS	NS	<b>30.2</b>	<9.53	<6.56	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	

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Greenwich High School  
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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AL17-SB271 5-6 AL17-SB271(5-6)-122811-1 12/28/2011 SB41766	AOC-1 AL17-SS104 0-0.25 AL17SS104 0-3 8/31/2011 SB34491	AOC-1 AL17-SS104 0-0.5 AL17-SS104-080311 8/3/2011 SB32768	AOC-1 AL18-SS105 0-0.25 AL18SS105 0-3 8/31/2011 SB34491	AOC-1 AL18-SS105 0-0.5 AL18-SS105-080311 8/3/2011 SB32768	AOC-1 AL19-SB491 2-3 AL19-SB491 (2-3)-071312-1 7/13/2012 SB52798	AOC-1 AL19-SB491 7-8 AL19-SB491 (7-8)-071312-1 7/13/2012 SB52798	AOC-1 AL19-SB491 13-14 AL19-SB491 (13-14)-071312-1 7/13/2012 SB52798	AOC-1 AL19-SS106 0-0.5 AL19-SS106-080311 8/3/2011 SB32875	AOC-1 AL20-SB267 2-3 AL20-SB267 (2-3)-122811-1 12/28/2011 SB41712	AOC-1 AL20-SB267 3-5 AL20-SB267 (3-5)-122811-1 12/28/2011 SB41712	AOC-1 AL20-SB267 8-9 AL20-SB267 (8-9)-122811-1 12/28/2011 SB41712	
<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	<451 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1000	44000	410000	<451 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methanamine, n-methyl-n-nitrosoc	NE	200	360	<451 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	<451 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Chlororaniline (200)	200	3100	29000	<451 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	1000	5100	48000	<901 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	<6.22 UJ	NS	NS	NS	NS	<4.87 UJ	<4.98 UJ	<11.6 UJ	NS	NS	<5.13 UJ	<7.63 UJ	
Arsenic	NE	10	10	<b>2.38</b>	NS	NS	NS	NS	<2.92 UJ	<2.99 UJ	<3.47 UJ	NS	NS	<b>4.58 J</b>	<b>16.1 J</b>	
Barium	NE	4700	140000	<b>138 J</b>	NS	NS	NS	NS	<b>130</b>	<b>48.4</b>	<b>224</b>	NS	NS	<b>83.8 J</b>	<b>126 J</b>	
Beryllium	NE	2	2	<b>0.878</b>	NS	NS	NS	NS	<0.487 U	<0.498 U	<1.16 U	NS	NS	<b>0.549</b>	<0.763 U	
Cadmium	NE	34	1000	<b>0.815</b>	NS	NS	NS	NS	<b>0.529</b>	<0.498 U	<1.16 U	NS	NS	<b>0.954 J</b>	<b>1.45 J</b>	
Chromium	NE	NE	NE	<b>34.5 J</b>	NS	NS	NS	NS	<b>44.5</b>	<b>13.2</b>	<b>39.8</b>	NS	NS	<b>18.4 J</b>	<b>27.8 J</b>	
Copper	NE	2500	76000	<b>8.78 J</b>	NS	NS	NS	NS	<b>24.2 J</b>	<b>13.0 J</b>	<b>13.7 J</b>	NS	NS	<b>24.7 J</b>	<b>56.7 J</b>	
Lead	NE	400	1000	<b>16.4</b>	NS	NS	NS	NS	<b>11.9 J</b>	<b>10.2 J</b>	<b>5.73 J</b>	NS	NS	<b>53.6 J</b>	<b>139 J</b>	
Mercury	NE	20	610	<b>0.0616 J</b>	NS	NS	NS	NS	<0.0312 UJ	<0.0313 UJ	<0.0704 UJ	NS	NS	<0.953 U	<1.30 U	
Nickel	NE	1400	7500	<b>18.2 J</b>	NS	NS	NS	NS	<b>28.3 J</b>	<b>10.6 J</b>	<b>22.3 J</b>	NS	NS	<b>15.3 J</b>	<b>20.0 J</b>	
Selenium	NE	340	10000	<1.87 U	NS	NS	NS	NS	<1.46 UJ	<1.49 UJ	<3.47 UJ	NS	NS	<1.54 U	<2.29 U	
Silver	NE	340	10000	<1.87 U	NS	NS	NS	NS	<1.46 U	<1.49 U	<3.47 U	NS	NS	<1.54 UJ	<2.29 UJ	
Thallium	NE	5.4	160	<3.73 U	NS	NS	NS	NS	<2.92 U	<2.99 U	<6.94 U	NS	NS	<3.08 U	<4.58 U	
Vanadium	NE	470	14000	<b>25</b>	NS	NS	NS	NS	<b>31.5</b>	<b>14.7</b>	<b>28.4</b>	NS	NS	<b>22.7 J</b>	<b>39.8 J</b>	
Zinc	NE	20000	610000	<b>51.1 JEB</b>	NS	NS	NS	NS	<b>36</b>	<b>21.9</b>	<b>48.4</b>	NS	NS	<b>93.4 J</b>	<b>135 J</b>	
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.0108</b>
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.017</b>
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0025 U
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0050 U
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.008</b>
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.0097</b>
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0050 U
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.0102</b>
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0340 U
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	<1.39 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.02 UJ	NS	

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<26.9 U	<25.4	<22.2 U	<23.0	<23.3 U	<20.2 U	<20.9 U	<46.9 U	<21.0 U	<22.3 U	<21.2 U	<61.5 U	
Aroclor 1248	NE	NE	NE	<26.9 U	<25.4	<b>380</b>	<23.0	<b>107</b>	<b>1130</b>	<b>30.3</b>	<b>68</b>	<21.0 U	<22.3 U	<b>797</b>	<61.5 U	
Aroclor 1254	NE	NE	NE	<26.9 U	<25.4	<22.2 U	<23.0	<23.3 U	<20.2 U	<20.9 U	<46.9 U	<21.0 U	<b>417</b>	<21.2 U	<61.5 U	
Aroclor 1260	NE	NE	NE	<26.9 U	<25.4	<b>30</b>	<23.0	<23.3 U	<b>64.7</b>	<20.9 U	<46.9 U	<21.0 U	<b>49.1</b>	<21.2 U	<61.5 U	
Aroclor 1262	NE	NE	NE	<26.9 U	<25.4	<22.2 U	<23.0	<23.3 U	<20.2 U	<20.9 U	<46.9 U	<21.0 U	<22.3 U	<b>56.1</b>	<61.5 U	
Total PCB Aroclors	NE	1000	10000	<26.9 U	<25.4 U	<b>410</b>	<23.0 U	<b>107</b>	<b>1194.7</b>	<b>30.3</b>	<b>68</b>	<21.0 U	<b>466</b>	<b>853</b>	<61.5 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0002 U	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0002 U	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0002 U	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0002 U	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	<10.6	NS	<9.80	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	<6.60	NS	<b>8.28</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	<10.6	NS	<9.80	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	<b>17.1</b>	NS	<b>7.52</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	<b>119</b>	NS	<b>50.8</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	<6.60	NS	<6.12	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	<10.6	NS	<9.80	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	<b>16.5</b>	NS	<b>8.75</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	<10.6	NS	<9.80	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	<b>33.6</b>	NS	<b>16.27</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	<6.60	NS	<b>8.28</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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mg/L = miligram per Liter

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*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AL20-SS267 0-0.25 AL20-SS267 (0-3) 8/22/2011 SB33952	AOC-1 AM10-SS107 0-0.25 AM10 SS107 0-3 8/11/2011 SB33302	AOC-1 AM10-SS107 0-0.5 AM10-SS107-080411 8/4/2011 SB32875	AOC-1 AM11-SB436 3-4 AM11-SB436(3-4) 070612- 1 7/6/2012 SB52371	AOC-1 AM11-SB436 6-7 AM11-SB436(6-7) 070612- 1 7/6/2012 SB52371	AOC-1 AM11-SB436 11.5-12.5 AM11-SB436(11.5-12.5) 070612-1 7/6/2012 SB52371	AOC-1 AM16-SB270 0-1 AM16-SB270(0-1)-122811- 1 12/28/2011 SB41766	AOC-1 AM16-SB270 4-5 AM16-SB270(4-5)-122811- 1 12/28/2011 SB41766	AOC-1 AM16-SB270 5-6 AM16-SB270(5-6)-122811- 1 12/28/2011 SB41766	AOC-1 AM16-SS108 0-0.25 AM16 SS108 0-3 8/11/2011 SB33302	AOC-1 AM16-SS108 0-0.5 AM16-SS108-080311 8/3/2011 SB32768	AOC-1 AM17-SS109 0-0.25 AM17SS109 0-3 8/31/2011 SB34491	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.5 U	<21.7 U	<21.4 U	<20.4 U	<25.0 U	<36.2 U	NS	<21.8 U	<27.4 U	<24.2 U	<23.2 U	<22.8	
Aroclor 1248	NE	NE	NE	<21.5 U	<b>132</b>	<b>335</b>	<b>3630</b>	<25.0 U	<36.2 U	NS	<b>20100</b>	<b>180</b>	<b>400</b>	<b>2730</b>	<b>221</b>	
Aroclor 1254	NE	NE	NE	<21.5 U	<21.7 U	<21.4 U	<20.4 U	<25.0 U	<36.2 U	NS	<21.8 U	<27.4 U	<24.2 U	<23.2 U	<22.8	
Aroclor 1260	NE	NE	NE	<21.5 U	<21.7 U	<b>39.6</b>	<b>235</b>	<25.0 U	<36.2 U	NS	<b>265</b>	<27.4 U	<b>35.3</b>	<b>90.4</b>	<22.8	
Aroclor 1262	NE	NE	NE	<21.5 U	<21.7 U	<21.4 U	<20.4 U	<25.0 U	<36.2 U	NS	<21.8 U	<27.4 U	<24.2 U	<23.2 U	<22.8	
Total PCB Aroclors	NE	1000	10000	<21.5 U	<b>132</b>	<b>375</b>	<b>3870</b>	<25.0 U	<36.2 U	NS	<b>20365</b>	<b>180</b>	<b>435</b>	<b>2820</b>	<b>221</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<8.97 U	NS	NS	NS	NS	NS	<9.31 U	NS	NS	<9.40 R	<9.36 U	<9.21	
4,4-DDE (p,p)	NE	NE	NE	<5.61 U	NS	NS	NS	NS	NS	<5.82 U	NS	NS	<5.88 R	<b>39.1</b>	<b>10.9</b>	
4,4-DDT (p,p)	3	1800	17000	<8.97 U	NS	NS	NS	NS	NS	<9.31 U	NS	NS	<9.40 R	<9.36 U	<9.21	
alpha-Chlordane	NE	NE	NE	<5.61 U	NS	NS	NS	NS	NS	<5.82 U	NS	NS	<b>10.9 J</b>	<b>37.8 J</b>	<b>26</b>	
Chlordane	NE	490	2200	<22.4 U	NS	NS	NS	NS	NS	<23.3 U	NS	NS	<b>106 J-</b>	<b>739</b>	<b>147</b>	
Dieldrin	7	38	360	<5.61 U	NS	NS	NS	NS	NS	<5.82 U	NS	NS	<5.88 R	<5.85 U	<5.76	
Endrin (40)	40	20000	610000	<8.97 U	NS	NS	NS	NS	NS	<9.31 U	NS	NS	<9.40 R	<9.36 U	<9.21	
gamma-Chlordane	NE	NE	NE	<5.61 U	NS	NS	NS	NS	NS	<5.82 U	NS	NS	<b>15.8 J-</b>	<b>44.5</b>	<b>26.7</b>	
Methoxychlor	800	340000	10000000	<8.97 U	NS	NS	NS	NS	NS	<9.31 U	NS	NS	<9.40 R	<9.36 U	<9.21	
Total Chlordanes	66	490	2200	<5.61 U	NS	NS	NS	NS	NS	<5.82 U	NS	NS	<b>26.7</b>	<b>82.3</b>	<b>52.7</b>	
Total DDx	NE	NE	NE	<8.97	NS	NS	NS	NS	NS	<9.31	NS	NS	<9.40	<b>39.1</b>	<b>10.9</b>	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.9 U	<24.3	<22.4 U	<23.9 U	<22.4 U	<20.3 U	<24.9 U	<21.0 U	<21.5 U	<22.0 U	<21.3 U	<20.9 U	
Aroclor 1248	NE	NE	NE	<b>326</b>	<24.3	<b>424</b>	<b>194</b>	<b>206</b>	<b>67</b>	<24.9 U	<21.0 U	<b>260</b>	<22.0 U	<21.3 U	<b>207 J</b>	
Aroclor 1254	NE	NE	NE	<21.9 U	<24.3	<22.4 U	<23.9 U	<22.4 U	<20.3 U	<24.9 U	<21.0 U	<21.5 U	<22.0 U	<21.3 U	<20.9 U	
Aroclor 1260	NE	NE	NE	<b>25.2</b>	<24.3	<b>24.7</b>	<23.9 U	<b>24.7</b>	<20.3 U	<24.9 U	<21.0 U	<21.5 U	<22.0 U	<21.3 U	<20.9 U	
Aroclor 1262	NE	NE	NE	<21.9 U	<24.3	<22.4 U	<23.9 U	<22.4 U	<20.3 U	<24.9 U	<21.0 U	<21.5 U	<22.0 U	<21.3 U	<20.9 U	
Total PCB Aroclors	NE	1000	10000	<b>351</b>	<24.3 U	<b>449</b>	<b>194</b>	<b>231</b>	<b>67</b>	<24.9 U	<21.0 U	<b>260</b>	<22.0 U	<21.3 U	<b>207</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<9.68 U	NS	NS	NS	NS	NS	NS	NS	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<6.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<9.68 U	NS	NS	NS	NS	NS	NS	NS	NS	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>8.38 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	
Chlordane	NE	490	2200	NS	NS	NS	<b>34.4</b>	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	7	38	360	NS	NS	NS	<6.05 U	NS	NS	NS	NS	NS	NS	NS	NS	
Endrin (40)	40	20000	610000	NS	NS	NS	<9.68 U	NS	NS	NS	NS	NS	NS	NS	NS	
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>8.7</b>	NS	NS	NS	NS	NS	NS	NS	NS	
Methoxychlor	800	340000	10000000	NS	NS	NS	<9.68 U	NS	NS	NS	NS	NS	NS	NS	NS	
Total Chlordanes	66	490	2200	NS	NS	NS	<b>17.08</b>	NS	NS	NS	NS	NS	NS	NS	NS	
Total DDx	NE	NE	NE	NS	NS	NS	<9.68	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Greenwich High School  
Greenwich, CT**

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	103	NS	1520 J	NS	284	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	103	NS	1520 J	NS	284	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	103	NS	1520 J	NS	284	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	<117 UJ	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	<117 U	NS	<89.3 UJ	NS	NS	<83.9 UJ	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	<117 U	NS	177	NS	NS	<83.9 U	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	<235 U	NS	<179 U	NS	NS	<168 U	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	<117 U	NS	94.7	NS	NS	131	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	<2350 U	NS	<1790 U	NS	NS	<1680 U	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	<1170 U	NS	<893 U	NS	NS	<839 U	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	<1170 U	NS	<893 U	NS	NS	<839 U	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	<117 U	NS	101	NS	NS	<83.9 U	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	<235 U	NS	<179 U	NS	NS	<168 U	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	<117 U	NS	3050	NS	NS	<83.9 U	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	<117 U	NS	140 J	NS	NS	<83.9 UJ	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	1110	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	<235 U	NS	307	NS	NS	<168 U	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	<1170 U	NS	<893 U	NS	NS	<839 U	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	<235 U	NS	<179 U	NS	NS	<168 U	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	<117 U	NS	187	NS	NS	88.9	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	<117 U	NS	96.4 J	NS	NS	<83.9 UJ	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	<117 U	NS	102	NS	NS	734	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	<117 U	NS	<89.3 U	NS	NS	<83.9 U	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	<117 U	NS	98.2	NS	NS	<83.9 U	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	<117 U	NS	385	NS	NS	<83.9 U	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	<117	NS	187	NS	NS	88.9	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	<235 U	NS	403	NS	NS	<168 U	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	<117 U	NS	432	NS	NS	<83.9 U	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	<117 U	NS	7830	NS	NS	<83.9 U	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	<117 U	NS	1200 J	NS	NS	<83.9 UJ	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AM21-SS268 0-0.25 AM21-SS268 (0-3") 8/22/2011 SB33952	AOC-1 AM22-SB304 1-2 AM22-SB304(1-2)-021612-1 2/16/2012 SB44035	AOC-1 AM22-SB304 5-6 AM22-SB304(5-6)-021612-1 2/16/2012 SB44035	AOC-1 AM22-SB304 6-7 AM22-SB304(6-7)-021612-1 2/16/2012 SB44035	AOC-1 AN10-SS175 0-0.25 AN10 SS175 0-3 8/11/2011 SB33302	AOC-1 AN13-SB437 1.5-3 AN13-SB437(1.5-3)070612-1 7/6/2012 SB52371	AOC-1 AN13-SB437 11.5-12.5 AN13-SB437(11.5-12.5)070612-1 7/6/2012 SB52371	AOC-1 AN15-SB438 3-4 AN15-SB438(3-4)070612-1 7/6/2012 SB52371	AOC-1 AN15-SB438 5.3-5.6 AN15-SB438(5.3-5.6)070612-1 7/6/2012 SB52371	AOC-1 AN15-SB438 11.5-12.5 AN15-SB438(11.5-12.5)070612-1 7/6/2012 SB52371	AOC-1 AN16-SS114 0-0.25 AN16SS114 0-3 8/31/2011 SB34491	AOC-1 AN16-SS114 0-0.5 AN16-SS114-080311 8/3/2011 SB32768	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.8 U	NS	<29.2 U	<28.5 U	<22.5 U	<24100 U	<23.3 U	<27.6 U	<22.6 U	<37.3 U	<24.3	<22.1 U	
Aroclor 1248	NE	NE	NE	<b>80.9</b>	NS	<29.2 U	<28.5 U	<b>92.3</b>	<b>3460000</b>	<b>4170</b>	<b>2580</b>	<b>1190</b>	<187 U	<24.3	<b>322</b>	
Aroclor 1254	NE	NE	NE	<23.8 U	NS	<29.2 U	<28.5 U	<22.5 U	<24100 U	<23.3 U	<b>1900</b>	<b>834</b>	<187 U	<24.3	<22.1 U	
Aroclor 1260	NE	NE	NE	<23.8 U	NS	<29.2 U	<28.5 U	<22.5 U	<b>58900</b>	<23.3 U	<b>176</b>	<b>38.5</b>	<37.3 U	<24.3	<22.1 U	
Aroclor 1262	NE	NE	NE	<23.8 U	NS	<29.2 U	<28.5 U	<22.5 U	<24100 U	<23.3 U	<27.6 U	<22.6 U	<37.3 U	<24.3	<22.1 U	
Total PCB Aroclors	NE	1000	10000	<b>80.9</b>	NS	<29.2 U	<28.5 U	<b>92.3</b>	<b>3520000</b>	<b>4170</b>	<b>4660</b>	<b>2060</b>	<187 U	<24.3 U	<b>322</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	<8.38 U	NS	NS	<9.00 U	NS	NS	NS	NS	NS	<9.59	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	<5.24 U	NS	NS	<b>6.83</b>	NS	NS	NS	NS	NS	<5.99	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	<8.38 U	NS	NS	<9.00 U	NS	NS	NS	NS	NS	<9.59	NS	NS
alpha-Chlordane	NE	NE	NE	NS	<5.24 U	NS	NS	<b>57.5 J</b>	NS	NS	NS	NS	NS	<b>7.51</b>	NS	NS
Chlordane	NE	490	2200	NS	<21.0 U	NS	NS	<b>211</b>	NS	NS	NS	NS	NS	<b>59</b>	NS	NS
Dieldrin	7	38	360	NS	<5.24 U	NS	NS	<5.62 U	NS	NS	NS	NS	NS	<5.99	NS	NS
Endrin (40)	40	20000	610000	NS	<8.38 U	NS	NS	<9.00 U	NS	NS	NS	NS	NS	<9.59	NS	NS
gamma-Chlordane	NE	NE	NE	NS	<5.24 U	NS	NS	<b>33.9 J</b>	NS	NS	NS	NS	NS	<b>8.6</b>	NS	NS
Methoxychlor	800	340000	10000000	NS	<8.38 U	NS	NS	<9.00 U	NS	NS	NS	NS	NS	<9.59	NS	NS
Total Chlordanes	66	490	2200	NS	<5.24	NS	NS	<b>91.4</b>	NS	NS	NS	NS	NS	<b>16.11</b>	NS	NS
Total DDx	NE	NE	NE	NS	<8.38	NS	NS	<b>6.83</b>	NS	NS	NS	NS	NS	<9.59	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AN17-SB481 4-5 AN17-SB481 (4-5)71212-1 7/12/2012 SB52747	AOC-1 AN17-SB481 7-8 AN17-SB481 (7-8)71212-1 7/12/2012 SB52747	AOC-1 AN17-SB481 12-13 AN17-SB481 (12-13)71212-1 7/12/2012 SB52747	AOC-1 AN17-SS115 0-0.25 AN17SS115 0-3 8/31/2011 SB34491	AOC-1 AN17-SS115 0-0.5 AN17-SS115-080311 8/3/2011 SB32768	AOC-1 AN18-SB129 0-1 AN18 SB129 0-1 8/10/2011 SB33308	AOC-1 AN18-SB129 1-2 AN18 SB129 1-2 8/10/2011 SB33308	AOC-1 AN18-SB129 2-3 AN18 SB129 2-3 8/10/2011 SB33308	AOC-1 AN18-SB129 6-7 AN18 SB129 6-7 8/10/2011 SB33308	AOC-1 AN18-SB129 12-13 AN18 SB129 12-13 8/10/2011 SB33308	AOC-1 AN18-SS116 0-0.5 AV28-SS136 8/3/2011 SB32768	AOC-1 AN19-SS117 0-0.5 AN19-SS117-080311 8/3/2011 SB32768	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<22.5 U	<27.9 U	<50.4 U	<24.3	<24.8 U	NS	<20.7 U	NS	<31.7 U	<53.4 U	<23.6 U	<25.6 U	
Aroclor 1248	NE	NE	NE	<b>1070</b>	<b>2000</b>	<b>275</b>	<b>244</b>	<b>181</b>	NS	<20.7 U	NS	<31.7 U	<53.4 U	<b>273</b>	<25.6 U	
Aroclor 1254	NE	NE	NE	<22.5 U	<27.9 U	<50.4 U	<24.3	<24.8 U	NS	<20.7 U	NS	<31.7 U	<53.4 U	<23.6 U	<25.6 U	
Aroclor 1260	NE	NE	NE	<b>74.4</b>	<b>124</b>	<50.4 U	<24.3	<24.8 U	NS	<20.7 U	NS	<31.7 U	<53.4 U	<23.6 U	<25.6 U	
Aroclor 1262	NE	NE	NE	<22.5 U	<27.9 U	<50.4 U	<b>34.1</b>	<24.8 U	NS	<20.7 U	NS	<31.7 U	<53.4 U	<23.6 U	<25.6 U	
Total PCB Aroclors	NE	1000	10000	<b>1144.4</b>	<b>2124</b>	<b>275</b>	<b>278</b>	<b>181</b>	NS	<20.7 U	NS	<31.7 U	<53.4 U	<b>273</b>	<25.6 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<9.77	NS	<8.52 U	NS	<11.4 U	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<6.10	NS	<b>8.99</b>	NS	<7.13 U	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<9.77	NS	<8.52 U	NS	<11.4 U	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>11.7</b>	NS	<b>32.8 J</b>	NS	<7.13 U	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>87.5</b>	NS	<b>153</b>	NS	<28.5 U	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<6.10	NS	<5.32 U	NS	<7.13 U	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<9.77	NS	<8.52 U	NS	<11.4 U	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>11</b>	NS	<b>22.5 J</b>	NS	<7.13 U	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<9.77	NS	<8.52 U	NS	<11.4 U	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>22.7</b>	NS	<b>55.3</b>	NS	<7.13	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<9.77	NS	<b>8.99</b>	NS	<7.13	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

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Blue highlighted cells exceed RES DEC.

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Green highlighted cells exceed I/C DEC.

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NE = Criteria has not been established

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ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

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*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AN19-SS117 0-0.5 AN19-SS117-080511 8/5/2011 SB32945	AOC-1 AN20-SS118 0-0.5 AN20-SS118-080311 8/3/2011 SB32768	AOC-1 AN21-SS119 0-0.5 AN21-SS119-080311 8/3/2011 SB32768	AOC-1 AN22-SS269 0-0.25 AN22-SS269 (0-3") 8/22/2011 SB33952	AOC-1 AN23-SS120 0-0.25 AN23SS120 0-3 8/31/2011 SB34491	AOC-1 AN23-SS120 0-0.5 AN23-SS120-080311 8/3/2011 SB32875	AOC-1 AO10-SS121 0-0.5 AO10-SS121 8/4/2011 SB32875	AOC-1 AO16-SS294 0-0.25 AO16SS294 0-3-082311 8/23/2011 SB34022	AOC-1 AO18-SS293 0-0.25 AO18SS293 0-3-082311 8/23/2011 SB34022	AOC-1 AO19-SB489 3-4 AO19-SB489 (3-4)-071312-1 7/13/2012 SB52798	AOC-1 AO19-SB489 5-6 AO19-SB489 (5-6)-071312-1 7/13/2012 SB52798	AOC-1 AO19-SB489 13-14 AO19-SB489 (13-14)-071312-1 7/13/2012 SB52798	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.8 U	<22.5 U	<21.5 U	<24.0 U	<22.0	<20.5 U	<22.1 U	<24.4 U	<26.7 U	<22.4 U	<20.4 U	<63.0 U	
Aroclor 1248	NE	NE	NE	<23.8 U	<22.5 U	<b>257</b>	<24.0 U	<b>290</b>	<b>461</b>	<22.1 U	<24.4 U	<26.7 U	<b>138</b>	<b>85600</b>	<b>1510</b>	
Aroclor 1254	NE	NE	NE	<23.8 U	<22.5 U	<21.5 U	<24.0 U	<22.0	<20.5 U	<22.1 U	<24.4 U	<26.7 U	<22.4 U	<20.4 U	<63.0 U	
Aroclor 1260	NE	NE	NE	<23.8 U	<22.5 U	<21.5 U	<24.0 U	<22.0	<20.5 U	<22.1 U	<24.4 U	<26.7 U	<22.4 U	<b>1510</b>	<63.0 U	
Aroclor 1262	NE	NE	NE	<23.8 U	<22.5 U	<21.5 U	<24.0 U	<22.0	<20.5 U	<22.1 U	<24.4 U	<26.7 U	<22.4 U	<20.4 U	<63.0 U	
Total PCB Aroclors	NE	1000	10000	<23.8 U	<22.5 U	<b>257</b>	<24.0 U	<b>290</b>	<b>461</b>	<22.1 U	<24.4 U	<26.7 U	<b>138</b>	<b>87110</b>	<b>1510</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<8.47 U	NS	NS	NS	NS	NS	NS	<10.1 U	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<5.29 U	NS	NS	NS	NS	NS	NS	<6.29 U	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<i>&lt;8.47 U</i>	NS	NS	NS	NS	NS	NS	<i>&lt;10.1 U</i>	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<b>5.83 J</b>	NS	NS	NS	NS	NS	NS	<b>6.53 J</b>	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	<b>21.4</b>	NS	NS	NS	NS	NS	NS	<b>44.1</b>	NS	NS	NS	NS	NS
Dieldrin	7	38	360	<5.29 U	NS	NS	NS	NS	NS	NS	<6.29 U	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	<8.47 U	NS	NS	NS	NS	NS	NS	<10.1 U	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<b>7.56</b>	NS	NS	NS	NS	NS	NS	<b>6.38</b>	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	<8.47 U	NS	NS	NS	NS	NS	NS	<10.1 U	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	<b>13.39</b>	NS	NS	NS	NS	NS	NS	<b>12.91</b>	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	<8.47	NS	NS	NS	NS	NS	NS	<6.29	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

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<b>VOC-SPLP (ug/L)</b>																
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>																
2-Methylnaphthalene	560	270000	1000000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Acenaphthene	8400	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Acenaphthylene	8400	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Anthracene	40000	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Benzo(a)anthracene	1000	1000	7800	NS	NS	<2300 U DL	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 UJ
Benzo(a)pyrene	1000	1000	1000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Benzo(b)fluoranthene	1000	1000	7800	NS	NS	<2300 U DL	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 UJ
Benzo(g,h,i)perylene	1000	8400	78000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 UJ
Benzo(k)fluoranthene	1000	8400	78000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Chrysene	1000	84000	780000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 UJ	NS	NS	NS	<204 U
Dibenzo(a,h)anthracene	1000	1000	1000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Fluoranthene	5600	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 UJ
Fluorene	5600	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Indeno(1,2,3-cd)pyrene	1000	1000	7800	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 UJ
Naphthalene	5600	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Phenanthrene	4000	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
Pyrene	4000	1000000	2500000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 UJ	NS	NS	NS	<204 U
<b>SVOCs (ug/Kg)</b>																
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<730 U	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	<730 U	NS	NS	NS	NS
1-Methylnaphthalene	200	21000	200000	NS	NS	<2300 U	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	<204 U
2,4-Dichlorophenol	1000	200000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
2,4-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
2,6-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
2-Chlorophenol	1000	340000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
3,3-Dichlorobenzidine	200	1400	13000	NS	NS	NS	NS	NS	NS	NS	NS	<730 U	NS	NS	NS	NS
Benzidine	200	200	200	NS	NS	NS	NS	NS	NS	NS	NS	<730 U	NS	NS	NS	NS
Bis(2-chloroethyl)ether	1000	1000	5200	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	<365 UJ	NS	NS	NS	NS
Di-n-octyl phthalate	2000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<730 U	NS	NS	NS	NS

**Soil Analytical Data  
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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AO20-SS286 0-0.25 AO20SS286 0-3-082311 8/23/2011 SB34022	AOC-1 AO21-SB482 3-4 AO21-SB482 (3-4)-071212 1 7/12/2012 SB52798	AOC-1 AO21-SB482 6-7 AO21-SB482 (6-7)-071212 1 7/12/2012 SB52798	AOC-1 AO22-SS282 0-0.25 AO22SS282 0-3-082311 8/23/2011 SB34022	AOC-1 AO23-SS330 0-0.25 AO23SS330 0-3 8/31/2011 SB34491	AOC-1 AO24-SS270 0-0.25 AO24-SS270 (0-3") 8/22/2011 SB33952	AOC-1 AO25-SS122 0-0.5 AO25-SS122-080311 8/3/2011 SB32875	AOC-1 AP11-SB277 0-1 AP11-SB277(0-1)-122911- 1 12/29/2011 SB41766	AOC-1 AP11-SB277 2.5-4 AP11-SB277(2.5-4)- 122911-1 12/29/2011 SB41766	AOC-1 AP11-SB277 4-5 AP11-SB277(4-5)-122911- 1 12/29/2011 SB41766	AOC-1 AP14-SB435 2.5-3 AP14-SB435(2.5-3) 070512-1 7/5/2012 SB52371	AOC-1 AP14-SB435 5-6 AP14-SB435(5-6)070512- 1 7/5/2012 SB52371	
<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
Methanamine, n-methyl-n-nitrosoc	NE	200	360	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	<365 U	NS	NS	NS	NS
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	NS	NS	NS	<730 U	NS	NS	NS	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	NS	<5.24 UJ	<31.3 UJ	NS	NS	NS	NS	NS	<5.34 UJ	<6.58 UJ	<5.32 UJ	<5.92 UJ	<5.92 UJ
Arsenic	NE	10	10	NS	<3.14 UJ	<18.8 UJ	NS	NS	NS	NS	NS	2.29	3.02	<7.97 U	<1.78 U	<1.78 U
Barium	NE	4700	140000	NS	70.2	779	NS	NS	NS	NS	NS	135 J	166 J	190	147	147
Beryllium	NE	2	2	NS	0.572	<0.627 U	NS	NS	NS	NS	NS	1.07	0.926	0.646	<2.96 U	<2.96 U
Cadmium	NE	34	1000	NS	<0.524 U	6.95	NS	NS	NS	NS	NS	0.96	<0.658 U	<0.532 U	<0.592 U	<0.592 U
Chromium	NE	NE	NE	NS	20	69.4	NS	NS	NS	NS	NS	40.1 J	47.1 J	33.4 J	35.0 J	35.0 J
Copper	NE	2500	76000	NS	18.4 J	375 J	NS	NS	NS	NS	NS	51.5 J-	3.98 J-	31.7	21.1	21.1
Lead	NE	400	1000	NS	14.5 J	1760 J	NS	NS	NS	NS	NS	11.2	5.69	80.3 J	26.3 J	26.3 J
Mercury	NE	20	610	NS	<0.0338 UJ	1.09 J	NS	NS	NS	NS	NS	<0.0302 UJ	0.0649 J	0.0356 J+	0.0525 J+	0.0525 J+
Nickel	NE	1400	7500	NS	11.7 J	78.8 J	NS	NS	NS	NS	NS	31.2 J	16.4 J	24.7	15.4	15.4
Selenium	NE	340	10000	NS	<1.57 UJ	<9.40 UJ	NS	NS	NS	NS	NS	<1.60 U	<1.97 U	<1.59 U	<1.78 U	<1.78 U
Silver	NE	340	10000	NS	<1.57 U	<1.88 U	NS	NS	NS	NS	NS	<1.60 U	<1.97 U	<1.59 UJ	<1.78 UJ	<1.78 UJ
Thallium	NE	5.4	160	NS	<3.14 U	<3.76 U	NS	NS	NS	NS	NS	<3.20 U	<3.95 U	<3.19 U	<3.55 U	<3.55 U
Vanadium	NE	470	14000	NS	23.4	135	NS	NS	NS	NS	NS	45.1	31.9	106 J	38.4 J	38.4 J
Zinc	NE	20000	610000	NS	38.9	2930	NS	NS	NS	NS	NS	58.3 JEB	30.7 JEB	112 J	56.5 J	56.5 J
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	NS	NS	NS	<1.06 UJ	NS	NS	NS	NS

**Soil Analytical Data  
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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AO20-SS286 0-0.25 AO20SS286 0-3-082311 8/23/2011 SB34022	AOC-1 AO21-SB482 3-4 AO21-SB482 (3-4)-071212 1 7/12/2012 SB52798	AOC-1 AO21-SB482 6-7 AO21-SB482 (6-7)-071212 1 7/12/2012 SB52798	AOC-1 AO22-SS282 0-0.25 AO22SS282 0-3-082311 8/23/2011 SB34022	AOC-1 AO23-SS330 0-0.25 AO23SS330 0-3 8/31/2011 SB34491	AOC-1 AO24-SS270 0-0.25 AO24-SS270 (0-3*) 8/22/2011 SB33952	AOC-1 AO25-SS122 0-0.5 AO25-SS122-080311 8/3/2011 SB32875	AOC-1 AP11-SB277 0-1 AP11-SB277(0-1)-122911- 1 12/29/2011 SB41766	AOC-1 AP11-SB277 2.5-4 AP11-SB277(2.5-4)- 122911-1 12/29/2011 SB41766	AOC-1 AP11-SB277 4-5 AP11-SB277(4-5)-122911- 1 12/29/2011 SB41766	AOC-1 AP14-SB435 2.5-3 AP14-SB435(2.5-3)- 070512-1 7/5/2012 SB52371	AOC-1 AP14-SB435 5-6 AP14-SB435(5-6)070512- 1 7/5/2012 SB52371	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.9 U	<20.9 U	<2770 U	<24.2 U	<23.5	<23.3 U	<20.6 U	NS	<21.2 U	<29.8 U	<2150 U	<24.6 U	
Aroclor 1248	NE	NE	NE	<23.9 U	<b>548</b>	<2770 U	<24.2 U	<23.5	<23.3 U	<b>58.8</b>	NS	<b>336</b>	<29.8 U	<b>321000</b>	<b>525</b>	
Aroclor 1254	NE	NE	NE	<23.9 U	<20.9 U	<2770 U	<24.2 U	<23.5	<23.3 U	<20.6 U	NS	<21.2 U	<29.8 U	<2150 U	<24.6 U	
Aroclor 1260	NE	NE	NE	<23.9 U	<20.9 U	<b>16200</b>	<24.2 U	<23.5	<23.3 U	<20.6 U	NS	<21.2 U	<29.8 U	<b>6990</b>	<24.6 U	
Aroclor 1262	NE	NE	NE	<23.9 U	<20.9 U	<2770 U	<24.2 U	<23.5	<23.3 U	<20.6 U	NS	<21.2 U	<29.8 U	<2150 U	<24.6 U	
Total PCB Aroclors	NE	1000	10000	<23.9 U	<b>548</b>	<b>16200</b>	<24.2 U	<23.5 U	<23.3 U	<b>58.8</b>	NS	<b>336</b>	<29.8 U	<b>328000</b>	<b>525</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<10.0 U	NS	NS	<9.87 U	NS	<9.16 U	NS	<9.53 U	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<6.25 U	NS	NS	<6.17 U	NS	<5.72 U	NS	<5.95 U	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<10.0 U	NS	NS	<9.87 U	NS	<9.16 U	NS	<9.53 U	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<b>12.5 J</b>	NS	NS	<b>6.31 J</b>	NS	<b>6.85</b>	NS	<5.95 U	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	<b>93.3</b>	NS	NS	<b>45.8</b>	NS	<b>31.8</b>	NS	<23.8 U	NS	NS	NS	NS	NS
Dieldrin	7	38	360	<6.25 U	NS	NS	<6.17 U	NS	<5.72 U	NS	<5.95 U	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	<10.0 U	NS	NS	<9.87 U	NS	<9.16 U	NS	<9.53 U	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<b>12.8 J</b>	NS	NS	<6.17 U	NS	<5.72 U	NS	<5.95 U	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	<10.0 U	NS	NS	<9.87 U	NS	<9.16 U	NS	<9.53 U	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	<b>25.3</b>	NS	NS	<b>6.31</b>	NS	<b>6.85</b>	NS	<5.95	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	<6.25	NS	NS	<9.87	NS	<9.16	NS	<9.53	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA-PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA-PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = milligram per kilogram

mg/L = milligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AP14-SB435 11.5-12.5 AP14-SB435 (11.5-12.5) 070512-1 7/5/2012 SB52371	AOC-1 AP16-SB269 0-1 AP16-SB269 (0-1)-122811-1 12/28/2011 SB41712	AOC-1 AP16-SB269 4-5 AP16-SB269 (4-5)-122811-1 12/28/2011 SB41712	AOC-1 AP16-SB269 5-6 AP16-SB269 (5-6)-122811-1 12/28/2011 SB41712	AOC-1 AP16-SS123 0-0.5 AP16-SS123-080311 8/3/2011 SB32768	AOC-1 AP17-SB478 3-4 AP17-SB478 (3-4)-71212-1 7/12/2012 SB52747	AOC-1 AP17-SB478 6-7 AP17-SB478 (6-7)-71212-1 7/12/2012 SB52747	AOC-1 AP17-SB478 12-13 AP17-SB478 (12-13)-71212-1 7/12/2012 SB52747	AOC-1 AP17-SS295 0-0.25 AP17SS295 0-3-082311 8/23/2011 SB34022	AOC-1 AP18-SS124 0-0.5 AP18-SS124-080311 8/3/2011 SB32768	AOC-1 AP19-SS290 0-0.25 AP19SS290 0-3-082311 8/23/2011 SB34022	AOC-1 AP20-SS125 0-0.25 AP20SS125 0-3 8/31/2011 SB34491	
<b>PCBs (ug/Kg) **</b>																
Aroclor 1242	NE	NE	NE	<27.8 U	NS	<20.5 U	<26.6 U	<24.3 U	<22.1 U	<20.9 U	<37.3 U	<22.3 U	<23.1 U	<24.7 U	<25.2	
Aroclor 1248	NE	NE	NE	<b>267</b>	NS	<b>6170</b>	<26.6 U	<b>173</b>	<b>818</b>	<b>645</b>	<b>105</b>	<22.3 U	<23.1 U	<24.7 U	<25.2	
Aroclor 1254	NE	NE	NE	<27.8 U	NS	<20.5 U	<26.6 U	<24.3 U	<22.1 U	<20.9 U	<37.3 U	<22.3 U	<23.1 U	<24.7 U	<25.2	
Aroclor 1260	NE	NE	NE	<27.8 U	NS	<b>247</b>	<26.6 U	<24.3 U	<b>78.6</b>	<b>39.7</b>	<37.3 U	<22.3 U	<23.1 U	<24.7 U	<25.2	
Aroclor 1262	NE	NE	NE	<27.8 U	NS	<20.5 U	<26.6 U	<24.3 U	<22.1 U	<20.9 U	<37.3 U	<22.3 U	<23.1 U	<24.7 U	<25.2	
Total PCB Aroclors	NE	1000	10000	<b>267</b>	NS	<b>6417</b>	<26.6 U	<b>173</b>	<b>897</b>	<b>684.7</b>	<b>105</b>	<22.3 U	<23.1 U	<24.7 U	<25.2 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	<0.000211 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	<b>0.00135</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	<0.000211 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	<b>0.00135</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	<8.99 U	NS	NS	NS	NS	NS	NS	NS	NS	<9.95 U	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	<5.62 U	NS	NS	NS	NS	NS	NS	NS	NS	<b>6.63</b>	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	<8.99 U	NS	NS	NS	NS	NS	NS	NS	NS	<9.95 U	NS	NS
alpha-Chlordane	NE	NE	NE	NS	<5.62 U	NS	NS	NS	NS	NS	NS	NS	NS	<b>6.63 J</b>	NS	NS
Chlordane	NE	490	2200	NS	<22.5 U	NS	NS	NS	NS	NS	NS	NS	NS	<b>48.8</b>	NS	NS
Dieldrin	7	38	360	NS	<5.62 U	NS	NS	NS	NS	NS	NS	NS	NS	<6.22 U	NS	NS
Endrin (40)	40	20000	610000	NS	<8.99 UJ	NS	NS	NS	NS	NS	NS	NS	NS	<9.95 U	NS	NS
gamma-Chlordane	NE	NE	NE	NS	<5.62 U	NS	NS	NS	NS	NS	NS	NS	NS	<b>7.29</b>	NS	NS
Methoxychlor	800	340000	10000000	NS	<8.99 U	NS	NS	NS	NS	NS	NS	NS	NS	<9.95 U	NS	NS
Total Chlordanes	66	490	2200	NS	<5.62	NS	NS	NS	NS	NS	NS	NS	NS	<b>13.92</b>	NS	NS
Total DDx	NE	NE	NE	NS	<8.99	NS	NS	NS	NS	NS	NS	NS	NS	<b>6.63</b>	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

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NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AP20-SS125 0-0.5 AP20-SS125-080311 8/3/2011 SB32768	AOC-1 AP20-SS327 0-0.25 AP20SS327 0-3 8/31/2011 SB34491	AOC-1 AP21-SS285 0-0.25 AP21SS285 0-3-082311 8/23/2011 SB34022	AOC-1 AP22-SS126 0-0.5 AP22-SS126-080311 8/3/2011 SB32768	AOC-1 AP23-SS281 0-0.25 AP23SS281 0-3-082311 8/23/2011 SB34022	AOC-1 AP24-SS127 0-0.5 AP24-SS127 8/3/2011 SB32875	AOC-1 AQ17-SS296 0-0.25 AQ17SS296 0-3-082311 8/23/2011 SB34022	AOC-1 AQ18-SS144 0-0.5 AQ18-SS144-080511 8/5/2011 SB32945	AOC-1 AQ19-SB490 2.3-3 AQ19-SB490 (2.3-3)- 071312-1 7/13/2012 SB52798	AOC-1 AQ19-SB490 7-8 AQ19-SB490 (7-8)-071312- 1 7/13/2012 SB52798	AOC-1 AQ19-SB490 10-11 AQ19-SB490 (10-11)- 071312-1 7/13/2012 SB52798	AOC-1 AQ19-SS324 0-0.25 AQ19SS324 0-3 8/31/2011 SB34491	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.3 U	<23.8	<23.7 U	<21.7 U	<23.5 U	<21.7 U	<20.8 U	<20.1 U	<21.5 U	<27.9 U	<b>2240</b>	<23.2	
Aroclor 1248	NE	NE	NE	<b>129</b>	<b>158</b>	<b>281</b>	<b>171</b>	<b>121</b>	<b>63.9 J</b>	<20.8 U	<20.1 U	<b>173</b>	<b>92.1</b>	<25.2 U	<23.2	
Aroclor 1254	NE	NE	NE	<21.3 U	<23.8	<23.7 U	<21.7 U	<23.5 U	<21.7 U	<20.8 U	<20.1 U	<21.5 U	<27.9 U	<25.2 U	<23.2	
Aroclor 1260	NE	NE	NE	<21.3 U	<23.8	<23.7 U	<21.7 U	<23.5 U	<21.7 U	<20.8 U	<20.1 U	<21.5 U	<27.9 U	<b>42.8</b>	<23.2	
Aroclor 1262	NE	NE	NE	<21.3 U	<23.8	<23.7 U	<21.7 U	<23.5 U	<21.7 U	<20.8 U	<20.1 U	<21.5 U	<27.9 U	<25.2 U	<23.2	
Total PCB Aroclors	NE	1000	10000	<b>129</b>	<b>158</b>	<b>281</b>	<b>171</b>	<b>121</b>	<b>63.9</b>	<20.8 U	<20.1 U	<b>173</b>	<b>92.1</b>	<b>2282.8</b>	<23.2 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<8.57 U	<5.95 U	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<5.36 U	<3.72 U	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	<8.57 U	<5.95 U	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<5.36 U	<3.72 U	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	<21.4 U	<14.9 U	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	<5.36 U	<3.72 U	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	<8.57 U	<5.95 U	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<5.36 U	<3.72 U	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	<8.57 U	<5.95 U	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	<5.36	<3.72	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	<8.57	<5.95	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AQ19-SS325 0-0.25 AQ19SS325 0-3 8/31/2011 SB34491	AOC-1 AQ20-SS287 0-0.25 AQ20SS287 0-3-082311 8/23/2011 SB34022	AOC-1 AQ20-SS326 0-0.25 AQ20SS326 0-3 8/31/2011 SB34491	AOC-1 AQ20-SS328 0-0.25 AQ20SS328 0-3 8/31/2011 SB34491	AOC-1 AQ21-SB268 0-1 AQ21-SB268 (0-1)-122811- 1 12/28/2011 SB41712	AOC-1 AQ21-SB268 0-1 AQ21-SB268 (0-1)-122811- 2 12/28/2011 SB41712	AOC-1 AQ21-SB268 3-4 AQ21-SB268 (3-4)-122811- 1 12/28/2011 SB41712	AOC-1 AQ21-SS329 0-0.25 AQ21SS329 0-3 8/31/2011 SB34491	AOC-1 AQ22-SS283 0-0.25 AQ22SS283 0-3-082311 8/23/2011 SB34022	AOC-1 AQ25-SS271 0-0.25 AQ25-SS271 (0-3") 8/22/2011 SB33952	AOC-1 AR14-SB434 2-3 AR14-SB434 (2-3) 070512- 1 7/5/2012 SB52304	AOC-1 AR14-SB434 5-6 AR14-SB434 (5-6) 070512- 1 7/5/2012 SB52304
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<24.7	<24.6 U	<24.2	<22.5	NS	NS	<21.1 U	<22.9	<25.3 U	<19.8 U	<22.7 U	<26.2 U
Aroclor 1248	NE	NE	NE	<b>178</b>	<b>499</b>	<24.2	<22.5	NS	NS	<b>337</b>	<22.9	<25.3 U	<19.8 U	<b>454</b>	<b>39.3</b>
Aroclor 1254	NE	NE	NE	<24.7	<24.6 U	<24.2	<22.5	NS	NS	<21.1 U	<22.9	<25.3 U	<19.8 U	<22.7 U	<26.2 U
Aroclor 1260	NE	NE	NE	<24.7	<24.6 U	<24.2	<22.5	NS	NS	<21.1 U	<22.9	<25.3 U	<19.8 U	<22.7 U	<26.2 U
Aroclor 1262	NE	NE	NE	<24.7	<24.6 U	<24.2	<22.5	NS	NS	<21.1 U	<22.9	<25.3 U	<19.8 U	<22.7 U	<26.2 U
Total PCB Aroclors	NE	1000	10000	<b>178</b>	<b>499</b>	<24.2 U	<22.5 U	NS	NS	<b>337</b>	<22.9 U	<25.3 U	<19.8 U	<b>454</b>	<b>39.3</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	<9.75 U	<8.74 U	NS	NS	<10.6 U	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	<6.09 U	<5.46 U	NS	NS	<6.60 U	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	<9.75 U	<8.74 U	NS	NS	<10.6 U	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	<6.09 U	<5.46 U	NS	NS	<6.60 U	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	<24.4 U	<21.9 U	NS	NS	<26.4 U	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	<6.09 U	<5.46 U	NS	NS	<6.60 U	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	<9.75 UJ	<8.74 UJ	NS	NS	<10.6 U	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	<6.09 U	<5.46 U	NS	NS	<6.60 U	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	<9.75 U	<8.74 U	NS	NS	<10.6 U	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	<6.09	<5.46	NS	NS	<6.60	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	<9.75	<8.74	NS	NS	<6.60	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AR14-SB434 11.5-12.5 AR14-SB434 (11.5-12.5) 070512-1 7/5/2012 SB52304	AOC-1 AR16-SB479 1.5-2 AR16-SB479 (1.5-2)- 071212-1 7/12/2012 SB52747	AOC-1 AR16-SB479 14-15 AR16-SB479 (14-15)- 071212-1 7/12/2012 SB52747	AOC-1 AR16-SB479 14-15 AR16-SB479 (14-15)- 071212-2 7/12/2012 SB52747	AOC-1 AR17-SS128 0-0.5 AR17-SS128-080311 8/3/2011 SB32768	AOC-1 AR18-SS291 0-0.25 AR18SS291 0-3-082311 8/23/2011 SB34022	AOC-1 AR19-SS129 0-0.25 AR19SS129 0-3 8/31/2011 SB34491	AOC-1 AR19-SS129 0-0.5 AR19-SS129-080311 8/3/2011 SB32768	AOC-1 AR20-SS288 0-0.25 AR20SS288 0-3-082311 8/23/2011 SB34022	AOC-1 AR21-SB144 1-2 AR21 SB144 1-2 8/10/2011 SB33308	AOC-1 AR21-SB144 2-3 AR21 SB144 2-3 8/10/2011 SB33308	AOC-1 AR21-SB144 5-6 AR21 SB144 5-6 8/10/2011 SB33308	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<66.5 U	<b>173</b>	<b>137 J</b>	<b>258 J</b>	<20.9 U	<21.7 U	<23.5	<20.8 U	<24.2 U	<25.2 U	<23.2 U	<22.9 U	
Aroclor 1248	NE	NE	NE	<66.5 U	<20.8 U	<23.2 U	<26.1 U	<20.9 U	<21.7 U	<23.5	<20.8 U	<24.2 U	<25.2 U	<23.2 U	<b>370</b>	
Aroclor 1254	NE	NE	NE	<33.2 U	<20.8 U	<23.2 U	<26.1 U	<20.9 U	<21.7 U	<23.5	<20.8 U	<24.2 U	<25.2 U	<23.2 U	<22.9 U	
Aroclor 1260	NE	NE	NE	<33.2 U	<20.8 U	<23.2 U	<26.1 U	<20.9 U	<21.7 U	<23.5	<20.8 U	<b>33.9</b>	<25.2 U	<23.2 U	<22.9 U	
Aroclor 1262	NE	NE	NE	<33.2 U	<20.8 U	<23.2 U	<26.1 U	<20.9 U	<21.7 U	<23.5	<20.8 U	<24.2 U	<25.2 U	<23.2 U	<22.9 U	
Total PCB Aroclors	NE	1000	10000	<66.5 U	<b>173</b>	<b>137</b>	<b>258</b>	<20.9 U	<21.7 U	<23.5 U	<20.8 U	<b>33.9</b>	<25.2 U	<23.2 U	<b>370</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	<8.65 U	NS	NS	<9.72 U	<10.2 U	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	<5.41 U	NS	NS	<6.07 U	<6.37 U	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	<8.65 U	NS	NS	<9.72 U	<10.2 U	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	<5.41 U	NS	NS	<6.07 U	<b>14.0 J</b>	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	<21.6 U	NS	NS	<24.3 U	<b>60.5</b>	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	<5.41 U	NS	NS	<6.07 U	<6.37 U	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	<8.65 U	NS	NS	<9.72 U	<10.2 U	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	<5.41 U	NS	NS	<6.07 U	<b>11.5 J</b>	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	<8.65 U	NS	NS	<9.72 U	<10.2 U	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	<5.41	NS	NS	<6.07	<b>25.5</b>	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	<8.65	NS	NS	<9.72	<6.37	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AR21-SB144 6-7 AR21 SB144 6-7 8/10/2011 SB33308	AOC-1 AR21-SB144 10-11 AR21 SB144 10-11 8/10/2011 SB33308	AOC-1 AR21-SB144 16-17 AR21 SB144 16-17 8/10/2011 SB33308	AOC-1 AR21-SS130 0-0.25 AR21SS130 0-3 8/31/2011 SB34491	AOC-1 AR21-SS130 0-0.5 AR21-SS130-080311 8/3/2011 SB32768	AOC-1 AR21-SS284 0-0.25 AR21SS284 0-3-082311 8/23/2011 SB34022	AOC-1 AR22-SB484 3-4 AR22-SB484 (3-4)-071212- 1 7/12/2012 SB52798	AOC-1 AR22-SB484 6-7 AR22-SB484 (6-7)-071212- 1 7/12/2012 SB52798	AOC-1 AR22-SB484 14-15 AR22-SB484 (14-15)- 071212-1 7/12/2012 SB52798	AOC-1 AR23-SS131 0-0.25 AR23SS131 0-3 8/31/2011 SB34491	AOC-1 AR23-SS131 0-0.5 AR23-SS131-080311 8/3/2011 SB32768	AOC-1 AS17-SS297 0-0.25 AS17SS297 0-3 8/23/2011 SB34022	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.5 U	<23.1 U	<22.9 U	<24.5	<23.3 U	<23.1 U	<22.3 U	<24.6 U	<43.7 U	<23.6	<22.7 U	<22.7 U	
Aroclor 1248	NE	NE	NE	<b>1410</b>	<23.1 U	<22.9 U	<24.5	<23.3 U	<b>75.1</b>	<b>230</b>	<24.6 U	<43.7 U	<23.6	<22.7 U	<b>163</b>	
Aroclor 1254	NE	NE	NE	<20.5 U	<23.1 U	<22.9 U	<24.5	<23.3 U	<23.1 U	<22.3 U	<24.6 U	<21.9 U	<23.6	<22.7 U	<22.7 U	
Aroclor 1260	NE	NE	NE	<b>27.6</b>	<23.1 U	<22.9 U	<24.5	<23.3 U	<23.1 U	<22.3 U	<24.6 U	<21.9 U	<23.6	<22.7 U	<22.7 U	
Aroclor 1262	NE	NE	NE	<20.5 U	<23.1 U	<22.9 U	<24.5	<23.3 U	<23.1 U	<22.3 U	<24.6 U	<21.9 U	<23.6	<22.7 U	<22.7 U	
Total PCB Aroclors	NE	1000	10000	<b>1440</b>	<23.1 U	<22.9 U	<24.5 U	<23.3 U	<b>75.1</b>	<b>230</b>	<24.6 U	<43.7 U	<23.6 U	<22.7 U	<b>163</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.07 U
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.67 U
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.07 U
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>10.7 J</b>
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>66.6</b>
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.67 U
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.07 U
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>9.92 J</b>
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.07 U
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>20.62</b>
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<9.07
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

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\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AT17-SS133 0-0.25  AT17 SS133 0-3 8/11/2011 SB33302	AOC-1 AT17-SS133 0-0.5  AT17-SS133-080311 8/3/2011 SB32768	AOC-1 AT18-SS168 0-0.25  AT18 SS168 0-3 8/11/2011 SB33302	AOC-1 AT20-SB394 8.5-9.5  AT20-SB394 (8.5-9.5)- 062612-1 6/26/2012 SB51902	AOC-1 AT20-SB394 11.3-12.3  AT20-SB394 (11.3-12.3)- 062612-1 6/26/2012 SB51902	AOC-1 AT22-SB395 4-5  AT22-SB395 (4-5)-062712- 1 6/27/2012 SB51902	AOC-1 AT22-SB395 9-10  AT22-SB395 (9-10)- 062712-1 6/27/2012 SB51902	AOC-1 AU18-SS167 0-0.25  AU18 SS167 0-3 8/11/2011 SB33302	AOC-1 AV17-SB250 0.5-1  AV17-SB250(0.5-1)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 3.5-4.5  AV17-SB250(3.5-4.5)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 5-7  AV17-SB250(5-7)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 10-11  AV17-SB250(10-11)-1 12/29/2011 SB41766	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	119	<31.9 U
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	119	<31.9 U
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	119	<31.9 U
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<14.7 UJ	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<14.7 U	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	82	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	303 J	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<14.7 UJ	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<14.7 U	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<73.6 U	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<14.7 UJ	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10.0 J	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<14.7 U	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 U	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4 UJ	NS

**Soil Analytical Data  
Greenwich High School  
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<b>VOC-SPLP (ug/L)</b>																
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>																
2-Methylnaphthalene	560	270000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Acenaphthene	8400	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Acenaphthylene	8400	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 UJ	NS
Anthracene	40000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Benzo(a)anthracene	1000	1000	7800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Benzo(a)pyrene	1000	1000	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Benzo(b)fluoranthene	1000	1000	7800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Benzo(g,h,i)perylene	1000	8400	78000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 UJ	NS
Benzo(k)fluoranthene	1000	8400	78000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Chrysene	1000	84000	780000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Dibenzo(a,h)anthracene	1000	1000	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Fluoranthene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 UJ	NS
Fluorene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Indeno(1,2,3-cd)pyrene	1000	1000	7800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Phenanthrene	4000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Pyrene	4000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
<b>SVOCs (ug/Kg)</b>																
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<797 U	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<797 U	NS
1-Methylnaphthalene	200	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
2,4-Dichlorophenol	1000	200000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
2,4-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
2,6-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
2-Chlorophenol	1000	340000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
3,3-Dichlorobenzidine	200	1400	13000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<797 UJ	NS
Benzidine	200	200	200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<797 UJ	NS
Bis(2-chloroethyl)ether	1000	1000	5200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Di-n-octyl phthalate	2000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<797 UJ	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AT17-SS133 0-0.25  AT17 SS133 0-3 8/11/2011 SB33302	AOC-1 AT17-SS133 0-0.5  AT17-SS133-080311 8/3/2011 SB32768	AOC-1 AT18-SS168 0-0.25  AT18 SS168 0-3 8/11/2011 SB33302	AOC-1 AT20-SB394 8.5-9.5 AT20-SB394 (8.5-9.5)- 062612-1 6/26/2012 SB51902	AOC-1 AT20-SB394 11.3-12.3 AT20-SB394 (11.3-12.3)- 062612-1 6/26/2012 SB51902	AOC-1 AT22-SB395 4-5 AT22-SB395 (4-5)-062712- 1 6/27/2012 SB51902	AOC-1 AT22-SB395 9-10 AT22-SB395 (9-10)- 062712-1 6/27/2012 SB51902	AOC-1 AU18-SS167 0-0.25  AU18 SS167 0-3 8/11/2011 SB33302	AOC-1 AV17-SB250 0.5-1  AV17-SB250(0.5-1)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 3.5-4.5  AV17-SB250(3.5-4.5)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 5-7  AV17-SB250(5-7)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 10-11  AV17-SB250(10-11)-1 12/29/2011 SB41766	
<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Methanamine, n-methyl-n-nitrosoc	NE	200	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<399 U	NS
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<797 UJ	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.63 UJ	<5.75 UJ	NS
Arsenic	NE	10	10	NS	NS	NS	NS	NS	NS	NS	4.92	NS	NS	3.42	6.52	NS
Barium	NE	4700	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	170 J	442 J	NS
Beryllium	NE	2	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.512	0.651	NS
Cadmium	NE	34	1000	NS	NS	NS	NS	NS	NS	NS	<0.565 U	NS	NS	<0.463 U	0.94	NS
Chromium	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	14.4 J	26.1 J	NS
Copper	NE	2500	76000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	96.3 J-	270 J-	NS
Lead	NE	400	1000	NS	NS	NS	NS	NS	NS	NS	47.8	NS	NS	28.6	48.3	NS
Mercury	NE	20	610	NS	NS	NS	NS	NS	NS	NS	0.117	NS	NS	0.0736 J	0.179 J	NS
Nickel	NE	1400	7500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12.0 J	19.0 J	NS
Selenium	NE	340	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.39 U	<1.73 U	NS
Silver	NE	340	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.39 U	<1.73 U	NS
Thallium	NE	5.4	160	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2.78 U	<3.45 U	NS
Vanadium	NE	470	14000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	22.2	32.4	NS
Zinc	NE	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<88.0 UJ	242 JEB	NS
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.19 UJ	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AT17-SS133 0-0.25 AT17 SS133 0-3 8/11/2011 SB33302	AOC-1 AT17-SS133 0-0.5 AT17-SS133-080311 8/3/2011 SB32768	AOC-1 AT18-SS168 0-0.25 AT18 SS168 0-3 8/11/2011 SB33302	AOC-1 AT20-SB394 8.5-9.5 AT20-SB394 (8.5-9.5)- 062612-1 6/26/2012 SB51902	AOC-1 AT20-SB394 11.3-12.3 AT20-SB394 (11.3-12.3)- 062612-1 6/26/2012 SB51902	AOC-1 AT22-SB395 4-5 AT22-SB395 (4-5)-062712- 1 6/27/2012 SB51902	AOC-1 AT22-SB395 9-10 AT22-SB395 (9-10)- 062712-1 6/27/2012 SB51902	AOC-1 AU18-SS167 0-0.25 AU18 SS167 0-3 8/11/2011 SB33302	AOC-1 AV17-SB250 0.5-1 AV17-SB250(0.5-1)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 3.5-4.5 AV17-SB250(3.5-4.5)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 5-7 AV17-SB250(5-7)-1 12/29/2011 SB41766	AOC-1 AV17-SB250 10-11 AV17-SB250(10-11)-1 12/29/2011 SB41766	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<24.6 U	<22.0 U	<22.5 U	<21.6 U	<2610 U	<19.2 U	<25.4 U	<23.3 U	NS	<22.0 U	<24.0 U	<22.5 U	
Aroclor 1248	NE	NE	NE	<b>75.1</b>	<b>167</b>	<b>86.7</b>	<21.6 U	<b>219000</b>	<19.2 U	<25.4 U	<b>80.5</b>	NS	<22.0 U	<24.0 U	<22.5 U	
Aroclor 1254	NE	NE	NE	<24.6 U	<22.0 U	<22.5 U	<21.6 U	<2610 U	<b>83.6</b>	<b>459</b>	<23.3 U	NS	<22.0 U	<24.0 U	<22.5 U	
Aroclor 1260	NE	NE	NE	<24.6 U	<22.0 U	<22.5 U	<21.6 U	<b>4310</b>	<19.2 U	<25.4 U	<23.3 U	NS	<22.0 U	<24.0 U	<22.5 U	
Aroclor 1262	NE	NE	NE	<24.6 U	<22.0 U	<22.5 U	<21.6 U	<2610 U	<19.2 U	<25.4 U	<23.3 U	NS	<22.0 U	<24.0 U	<22.5 U	
Total PCB Aroclors	NE	1000	10000	<b>75.1</b>	<b>167</b>	<b>86.7</b>	<21.6 U	<b>223000</b>	<b>83.6</b>	<b>459</b>	<b>80.5</b>	NS	<22.0 U	<24.0 U	<22.5 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<9.90 U	NS	NS	NS	NS	NS	NS	NS	<9.31 U	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<b>7.51</b>	NS	NS	NS	NS	NS	NS	NS	<b>7.59</b>	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<9.90 U	NS	NS	NS	NS	NS	NS	NS	<9.31 U	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<6.19 U	NS	NS	NS	NS	NS	NS	NS	<b>6.51 J</b>	NS	NS	NS	NS
Chlordane	NE	490	2200	<24.7 U	NS	NS	NS	NS	NS	NS	NS	<b>43</b>	NS	NS	NS	NS
Dieldrin	7	38	360	<6.19 U	NS	NS	NS	NS	NS	NS	NS	<5.82 U	NS	NS	NS	NS
Endrin (40)	40	20000	610000	<9.90 U	NS	NS	NS	NS	NS	NS	NS	<9.31 U	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<6.19 U	NS	NS	NS	NS	NS	NS	NS	<b>6.24</b>	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	<9.90 U	NS	NS	NS	NS	NS	NS	NS	<9.31 U	NS	NS	NS	NS
Total Chlordanes	66	490	2200	<6.19	NS	NS	NS	NS	NS	NS	NS	<b>12.75</b>	NS	NS	NS	NS
Total DDx	NE	NE	NE	<b>7.51</b>	NS	NS	NS	NS	NS	NS	NS	<b>7.59</b>	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS

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Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

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RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 AV17-SB250 13-14 AV17-SB250(13-14)-1 12/29/2011 SB41766	AOC-1 AV17-SS135 0-0.25 AV17-SS135 0-3 8/11/2011 SB33302	AOC-1 AV17-SS135 0-0.5 AV17-SS135-080411 8/4/2011 SB32875	AOC-1 AV17-SS138 0-0.5 AV17-SS138-080311 8/3/2011 SB32768	AOC-1 AV18-SS166 0-0.25 AV18-SS166 0-3 8/11/2011 SB33302	AOC-1 AV18-SS273 0-0.25 AV18-SS273 (0-3") 8/22/2011 SB33952	AOC-1 AV20-SB393 4.5-5 AV20-SB393 (4.5-5)- 062612-1 6/26/2012 SB51819	AOC-1 AV20-SB393 11-12 AV20-SB393 (11-12)- 062612-1 6/26/2012 SB51819	AOC-1 AV22-SB392 7-8 AV22-SB392 (7-8)-062612- 1 6/26/2012 SB51819	AOC-1 AV22-SB392 8-9 AV22-SB392 (8-9)-062612- 1 6/26/2012 SB51819	AOC-1 AW19-SS165 0-0.25 AW19-SS165 0-3 8/11/2011 SB33302	AOC-1 AW19-SS274 0-0.25 AW19-SS274 (0-3") 8/22/2011 SB33952	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.5 U	<25.1 U	<22.5 U	<21.5 U	<22.6 U	<23.1 U	<23.2 U	<2430 U	<20.8 U	<23.0 U	<24.2 U	<24.1 U	
Aroclor 1248	NE	NE	NE	<21.5 U	<25.1 U	<b>117</b>	<b>378</b>	<b>122</b>	<b>120</b>	<23.2 U	<b>51700</b>	<41.6 U	<23.0 U	<b>707</b>	<b>139 J</b>	
Aroclor 1254	NE	NE	NE	<21.5 U	<25.1 U	<22.5 U	<21.5 U	<22.6 U	<23.1 U	<23.2 U	<2430 U	<41.6 U	<23.0 U	<24.2 U	<24.1 U	
Aroclor 1260	NE	NE	NE	<21.5 U	<25.1 U	<22.5 U	<21.5 U	<22.6 U	<23.1 U	<23.2 U	<2430 U	<20.8 U	<23.0 U	<24.2 U	<24.1 U	
Aroclor 1262	NE	NE	NE	<21.5 U	<25.1 U	<22.5 U	<21.5 U	<22.6 U	<23.1 U	<23.2 U	<2430 U	<20.8 U	<23.0 U	<24.2 U	<24.1 U	
Total PCB Aroclors	NE	1000	10000	<21.5 U	<25.1 U	<b>117</b>	<b>378</b>	<b>122</b>	<b>120</b>	<23.2 U	<b>51700</b>	<41.6 U	<23.0 U	<b>707</b>	<b>139</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	<9.69 U	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	<b>14.9</b>	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	<b>22.8</b>	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	<b>16.3 J</b>	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	<b>66.6</b>	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	<6.06 U	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	<9.69 U	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	<b>8.71 J</b>	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	<9.69 U	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	<b>25.01</b>	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	<b>37.7</b>	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<24.0 U	<21.3 U	<23.0 U	<22.6 U	<20.9 U	<20.0 U	<22.3 U	<23.2 U	<22.2 U	<20.6 U	<31.4 U	<22.0 U	
Aroclor 1248	NE	NE	NE	<b>117</b>	<b>128</b>	<23.0 U	<b>307</b>	<20.9 U	<20.0 U	<22.3 U	<23.2 U	<22.2 U	<20.6 U	<31.4 U	<22.0 U	
Aroclor 1254	NE	NE	NE	<24.0 U	<21.3 U	<23.0 U	<22.6 U	<20.9 U	<20.0 U	<22.3 U	<23.2 U	<b>34.4</b>	<20.6 U	<31.4 U	<22.0 U	
Aroclor 1260	NE	NE	NE	<24.0 U	<21.3 U	<23.0 U	<b>22.6</b>	<20.9 U	<20.0 U	<22.3 U	<23.2 U	<22.2 U	<20.6 U	<31.4 U	<22.0 U	
Aroclor 1262	NE	NE	NE	<24.0 U	<21.3 U	<23.0 U	<22.6 U	<20.9 U	<20.0 U	<22.3 U	<23.2 U	<22.2 U	<20.6 U	<31.4 U	<22.0 U	
Total PCB Aroclors	NE	1000	10000	<b>117</b>	<b>128</b>	<23.0 U	<b>330</b>	<20.9 U	<20.0 U	<22.3 U	<23.2 U	<b>34.4</b>	<20.6 U	<31.4 U	<22.0 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	<0.0002 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	<0.0002 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	<0.0002 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	<0.0002 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 P11-SS225 0-0.25  P11-SS225 0-3 8/12/2011 SB33374	AOC-1 P12-SS198 0-0.25  P12-SS198 0-3 8/12/2011 SB33374	AOC-1 P13-SS188 0-0.25  P13-SS188 0-3 8/12/2011 SB33374	AOC-1 P13-SS190 0-0.25  P13-SS190 0-3 8/12/2011 SB33374	AOC-1 P20-SS24 0-0.5  P20-SS24-080511 8/5/2011 SB32945	AOC-1 P7-SB239 0.7-4  P7-SB239 (70-4)-1 12/28/2011 SB41720	AOC-1 P7-SB239 0.7-4  P7-SB239 (70-4)-2 12/28/2011 SB41720	AOC-1 P7-SB239 4-5  P7-SB239 (4-5)-1 12/28/2011 SB41720	AOC-1 P7-SB239 7-8  P7-SB239 (7-8)-1 12/28/2011 SB41720	AOC-1 P8-SS220 0-0.25  P8-SS220 0-3 8/12/2011 SB33374	AOC-1 P9-SB290 0-2  P9-SB290(0-2)-021412-1 2/14/2012 SB43969	AOC-1 P9-SB290 1.5-2.5  P9-SB290(1.5-2.5)-021412-1 2/14/2012 SB43969
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<19.8 U	<24.9 U	<19.8 U	<23.1 U	<22.0 U	<28.3 U	<24.5 U	<20.7 U	<21.6 U	<22.3 U	NS	117
Aroclor 1248	NE	NE	NE	<19.8 U	<24.9 U	<19.8 U	<23.1 U	<22.0 U	<28.3 U	<24.5 U	<20.7 U	<21.6 U	<22.3 U	NS	<24.3 U
Aroclor 1254	NE	NE	NE	<19.8 U	<24.9 U	<19.8 U	<23.1 U	<22.0 U	<28.3 U	<24.5 U	<20.7 U	<21.6 U	<22.3 U	NS	<24.3 U
Aroclor 1260	NE	NE	NE	<19.8 U	<24.9 U	<19.8 U	<23.1 U	<22.0 U	<28.3 U	<24.5 U	<20.7 U	<21.6 U	<22.3 U	NS	<24.3 U
Aroclor 1262	NE	NE	NE	<19.8 U	<24.9 U	<19.8 U	<23.1 U	<22.0 U	<28.3 U	<24.5 U	<20.7 U	<21.6 U	<22.3 U	NS	<24.3 U
Total PCB Aroclors	NE	1000	10000	<19.8 U	<24.9 U	<19.8 U	<23.1 U	<22.0 U	<28.3 U	<24.5 U	<20.7 U	<21.6 U	<22.3 U	NS	117
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	<8.44 U	NS	<8.36 U	NS	NS	NS	NS	NS	NS	NS	<8.99 U	NS
4,4-DDE (p,p)	NE	NE	NE	<5.27 U	NS	<5.23 U	NS	NS	NS	NS	NS	NS	NS	<5.62 U	NS
4,4-DDT (p,p)	3	1800	17000	<8.44 U	NS	<8.36 U	NS	NS	NS	NS	NS	NS	NS	<8.99 U	NS
alpha-Chlordane	NE	NE	NE	<5.27 U	NS	<5.23 U	NS	NS	NS	NS	NS	NS	NS	<5.62 U	NS
Chlordane	NE	490	2200	<21.1 U	NS	<20.9 U	NS	NS	NS	NS	NS	NS	NS	<22.5 U	NS
Dieldrin	7	38	360	<5.27 U	NS	<5.23 U	NS	NS	NS	NS	NS	NS	NS	<5.62 U	NS
Endrin (40)	40	20000	610000	<8.44 U	NS	<8.36 U	NS	NS	NS	NS	NS	NS	NS	<8.99 U	NS
gamma-Chlordane	NE	NE	NE	<5.27 U	NS	<5.23 U	NS	NS	NS	NS	NS	NS	NS	<5.62 U	NS
Methoxychlor	800	340000	10000000	<8.44 U	NS	<8.36 U	NS	NS	NS	NS	NS	NS	NS	<8.99 U	NS
Total Chlordanes	66	490	2200	<5.27	NS	<5.23	NS	NS	NS	NS	NS	NS	NS	<5.62	NS
Total DDx	NE	NE	NE	<8.44	NS	<8.36	NS	NS	NS	NS	NS	NS	NS	<8.99	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 P9-SB290 5-6 P9-SB290(5-6)-021412-1 2/14/2012 SB43969	AOC-1 P9-SS213 0-0.25 P9-SS213 0-3 8/12/2011 SB33374	AOC-1 Q10-SB411 1-2 Q10-SB411(1-2)-062812-1 6/28/2012 SB51990	AOC-1 Q10-SB411 4-5 Q10-SB411(4-5)-062812-1 6/28/2012 SB51990	AOC-1 Q10-SB411 11.5-12.5 Q10-SB411(11.5-12.5)- 062812-1 6/28/2012 SB51990	AOC-1 Q10-SS27 0-0.25 Q10-SS27 0-3 8/12/2011 SB33374	AOC-1 Q10-SS27 0-0.5 Q10-SS27-080411 8/4/2011 SB32875	AOC-1 Q11-SS200 0-0.25 Q11-SS200 0-3 8/12/2011 SB33374	AOC-1 Q12-SB419 4-5 Q12-SB419(4-5)-070212-1 7/2/2012 SB52216	AOC-1 Q12-SB419 8-10 Q12-SB419(8-10)-070212-1 7/2/2012 SB52216	AOC-1 Q12-SB419 11.5-12.5 Q12-SB419(11.5-12.5)- 070212-1 7/2/2012 SB52216	AOC-1 Q12-SB419 11.5-12.5 Q12-SB419(11.5-12.5)- 070212-2 7/2/2012 SB52216	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	372	<23.7 U	<19.6 U	<21.4 U	<28.8 U	<25.9 U	<23.3 U	<22.6 U	<20.6 U	<22.1 U	<21.7 U	<20.9 U	
Aroclor 1248	NE	NE	NE	<24.3 U	<23.7 U	<19.6 U	<21.4 U	<28.8 U	<25.9 U	249	<22.6 U	<20.6 U	<22.1 U	<21.7 U	<20.9 U	
Aroclor 1254	NE	NE	NE	<24.3 U	<23.7 U	<19.6 U	<21.4 U	<28.8 U	<25.9 U	<23.3 U	<22.6 U	<20.6 U	<22.1 U	<21.7 U	<20.9 U	
Aroclor 1260	NE	NE	NE	<24.3 U	<23.7 U	<19.6 U	<21.4 U	<28.8 U	<25.9 U	<23.3 U	<22.6 U	<20.6 U	<22.1 U	<21.7 U	<20.9 U	
Aroclor 1262	NE	NE	NE	<24.3 U	<23.7 U	<19.6 U	<21.4 U	<28.8 U	<25.9 U	<23.3 U	<22.6 U	<20.6 U	<22.1 U	<21.7 U	<20.9 U	
Total PCB Aroclors	NE	1000	10000	372	<23.7 U	<19.6 U	<21.4 U	<28.8 U	<25.9 U	249	<22.6 U	<20.6 U	<22.1 U	<21.7 U	<20.9 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	<9.82 U	NS	NS	NS	NS	NS	<9.34 U	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	<6.14 U	NS	NS	NS	NS	NS	<5.83 U	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	<9.82 U	NS	NS	NS	NS	NS	<9.34 U	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	<6.14 U	NS	NS	NS	NS	NS	14.8 J	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	<24.5 U	NS	NS	NS	NS	NS	<23.3 U	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	<6.14 U	NS	NS	NS	NS	NS	<5.83 U	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	<9.82 U	NS	NS	NS	NS	NS	<9.34 U	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	6.65	NS	NS	NS	NS	NS	11.1	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	<9.82 U	NS	NS	NS	NS	NS	<9.34 U	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	6.65	NS	NS	NS	NS	NS	25.9	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	<9.82	NS	NS	NS	NS	NS	<9.34	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Q12-SS28 0-0.5 Q12-SS28 8/4/2011 SB32875	AOC-1 Q14-SB414 2-3 Q14-SB414(2-3)-062912-1 6/29/2012 SB52073	AOC-1 Q14-SB414 5.5-6.5 Q14-SB414(5.5-6.5)- 062912-1 6/29/2012 SB52073	AOC-1 Q14-SB414 11.5-12.5 Q14-SB414(11.5-12.5)- 062912-1 6/29/2012 SB52073	AOC-1 Q14-SS187 0-0.25 Q14-SS187 0-3 8/12/2011 SB33374	AOC-1 Q14-SS224 0-0.25 Q14-SS224 0-3 8/12/2011 SB33374	AOC-1 Q14-SS29 0-0.5 Q14-SS29-080411 8/4/2011 SB32875	AOC-1 Q6-SS25 0-0.5 Q6-SS25-080411 8/4/2011 SB32875	AOC-1 Q7-SS221 0-0.25 Q7-SS221 0-3 8/12/2011 SB33374	AOC-1 Q8-SB412 2-3 Q8-SB412(2-3)-062912-1 6/29/2012 SB52073	AOC-1 Q8-SB412 4-5 Q8-SB412(4-5)-062912-1 6/29/2012 SB52073	AOC-1 Q8-SB412 11.5-12.5 Q8-SB412(11.5-12.5)- 062912-1 6/29/2012 SB52073	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.5 U	<27.4 U	<23.9 U	<23.4 U	<19.3 U	<19.5 U	<21.7 U	<25.7 U	<21.2 U	<211 U	<47.2 U	<24.1 U	
Aroclor 1248	NE	NE	NE	<23.5 U	<27.4 U	<23.9 U	<23.4 U	<19.3 U	<19.5 U	<21.7 U	<25.7 U	<21.2 U	<b>6340</b>	<47.2 U	<24.1 U	
Aroclor 1254	NE	NE	NE	<23.5 U	<27.4 U	<23.9 U	<23.4 U	<19.3 U	<19.5 U	<21.7 U	<25.7 U	<21.2 U	<211 U	<23.6 U	<24.1 U	
Aroclor 1260	NE	NE	NE	<23.5 U	<27.4 U	<23.9 U	<23.4 U	<19.3 U	<19.5 U	<21.7 U	<25.7 U	<21.2 U	<b>242</b>	<23.6 U	<24.1 U	
Aroclor 1262	NE	NE	NE	<23.5 U	<27.4 U	<23.9 U	<23.4 U	<19.3 U	<19.5 U	<21.7 U	<25.7 U	<21.2 U	<211 U	<23.6 U	<24.1 U	
Total PCB Aroclors	NE	1000	10000	<23.5 U	<27.4 U	<23.9 U	<23.4 U	<19.3 U	<19.5 U	<21.7 U	<25.7 U	<21.2 U	<b>6580</b>	<47.2 U	<24.1 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	<7.76 U	NS	NS	<8.45 U	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	<4.85 U	NS	NS	<5.28 U	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	<7.76 U	NS	NS	<8.45 U	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<b>8.64 J</b>	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	<19.4 U	NS	NS	<b>73.3</b>	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	<4.85 U	NS	NS	<5.28 U	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	<7.76 U	NS	NS	<8.45 U	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	<4.85 U	NS	NS	<b>9.36</b>	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	<7.76 U	NS	NS	<8.45 U	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	<4.85	NS	NS	<b>18</b>	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	<7.76	NS	NS	<8.45	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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\* = Criteria derived by SPLP only

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Q8-SS26 0-0.5 Q8-SS26-080411 8/4/2011 SB32875	AOC-1 Q9-SS212 0-0.25 Q9-SS212 0-3 8/12/2011 SB33374	AOC-1 R10-SS205 0-0.25 R10-SS205 0-3 8/12/2011 SB33374	AOC-1 R11-SS147 0-0.5 R11-SS147-080511 8/5/2011 SB32945	AOC-1 R12-SS191 0-0.25 R12-SS191 0-3 8/12/2011 SB33374	AOC-1 R12-SS197 0-0.25 R12-SS197 0-3 8/12/2011 SB33374	AOC-1 R13-SS189 0-0.25 R13-SS189 0-3 8/12/2011 SB33374	AOC-1 R15-SS186 0-0.25 R15-SS186 0-3 8/12/2011 SB33374	AOC-1 R8-SS218 0-0.25 R8-SS218 0-3 8/12/2011 SB33374	AOC-1 R9-SS210 0-0.25 R9-SS210 0-3 8/12/2011 SB33374	AOC-1 R9-SS211 0-0.25 R9-SS211 0-3 8/12/2011 SB33374	AOC-1 S10-SS204 0-0.25 S10-SS204 0-3 8/12/2011 SB33374
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<22.5 U	<26.3 U	<25.6 U	<22.3 U	<21.5 U	<26.7 U	<25.2 U	<19.6 U	<24.9 U	<23.4 U	<23.2 U	<24.8 U
Aroclor 1248	NE	NE	NE	<22.5 U	<26.3 U	<25.6 U	<22.3 U	<21.5 U	<26.7 U	<25.2 U	<19.6 U	<24.9 U	<b>43.5</b>	<b>54.1</b>	<b>36.4</b>
Aroclor 1254	NE	NE	NE	<22.5 U	<26.3 U	<25.6 U	<22.3 U	<21.5 U	<26.7 U	<25.2 U	<19.6 U	<24.9 U	<23.4 U	<23.2 U	<24.8 U
Aroclor 1260	NE	NE	NE	<22.5 U	<26.3 U	<25.6 U	<22.3 U	<21.5 U	<26.7 U	<25.2 U	<19.6 U	<24.9 U	<23.4 U	<23.2 U	<b>30.1</b>
Aroclor 1262	NE	NE	NE	<22.5 U	<26.3 U	<25.6 U	<22.3 U	<21.5 U	<26.7 U	<25.2 U	<19.6 U	<24.9 U	<23.4 U	<23.2 U	<24.8 U
Total PCB Aroclors	NE	1000	10000	<22.5 U	<26.3 U	<25.6 U	<22.3 U	<21.5 U	<26.7 U	<25.2 U	<19.6 U	<24.9 U	<b>43.5</b>	<b>54.1</b>	<b>66.5</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<7.35 U	NS	NS	<9.89 U	<8.09 U	NS	NS	<9.47 U	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<4.59 U	NS	NS	<6.18 U	<5.05 U	NS	NS	<5.92 U	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<7.35 U	NS	NS	<9.89 U	<8.09 U	NS	NS	<9.47 U	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>28.0 J</b>	NS	NS	<b>8.07 J</b>	<5.05 U	NS	NS	<b>15.6 J</b>	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>134</b>	NS	NS	<b>48.3</b>	<b>29.5</b>	NS	NS	<b>49.9</b>	NS
Dieldrin	7	38	360	NS	NS	NS	<4.59 U	NS	NS	<6.18 U	<5.05 U	NS	NS	<5.92 U	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<7.35 U	NS	NS	<9.89 U	<8.09 U	NS	NS	<9.47 U	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>27.3 J</b>	NS	NS	<b>7.08</b>	<b>5.29</b>	NS	NS	<b>13</b>	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<7.35 U	NS	NS	<9.89 U	<8.09 U	NS	NS	<9.47 U	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>55.3</b>	NS	NS	<b>15.15</b>	<b>5.29</b>	NS	NS	<b>28.6</b>	NS
Total DDx	NE	NE	NE	NS	NS	NS	<7.35	NS	NS	<9.89	<8.09	NS	NS	<9.47	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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Greenwich High School  
Greenwich, CT**

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	357	NS	NS	NS	NS	439	NS	NS	NS	NS	NS	185
Total Petroleum Hydrocarbons	500	500	2500	NS	357	NS	NS	NS	NS	439	NS	NS	NS	NS	NS	185
Unidentified	NE	NE	NE	NS	357	NS	NS	NS	NS	439	NS	NS	NS	NS	NS	185
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	<9.3 U	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	<93.1 U	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<46.6 UJ	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	53	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.3 U	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<9.3 U	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<46.6 U	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	<9.3 U	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	<4.7	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<9.3 U	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	<4.7 U	NS	NS	NS	NS	NS





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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<19.7 U	<228 U	<25.5 U	<20.9 U	<24.2 U	<24.0 U	<2570 U	NS	<20.9 U	<23.3 U	<21.9 U	<21.5 U	
Aroclor 1248	NE	NE	NE	<19.7 U	<b>4540</b>	<25.5 U	<20.9 U	<24.2 U	<24.0 U	<b>278000</b>	NS	<b>135</b>	<23.3 U	<b>3730</b>	<b>241000</b>	
Aroclor 1254	NE	NE	NE	<b>27.6</b>	<228 U	<25.5 U	<20.9 U	<24.2 U	<24.0 U	<2570 U	NS	<20.9 U	<23.3 U	<21.9 U	<21.5 U	
Aroclor 1260	NE	NE	NE	<19.7 U	<228 U	<25.5 U	<20.9 U	<24.2 U	<24.0 U	<2570 U	NS	<20.9 U	<23.3 U	<b>63.6</b>	<b>1030</b>	
Aroclor 1262	NE	NE	NE	<19.7 U	<228 U	<25.5 U	<20.9 U	<24.2 U	<24.0 U	<2570 U	NS	<20.9 U	<23.3 U	<21.9 U	<21.5 U	
Total PCB Aroclors	NE	1000	10000	<b>27.6</b>	<b>4540</b>	<25.5 U	<20.9 U	<24.2 U	<24.0 U	<b>278000</b>	NS	<b>135</b>	<23.3 U	<b>3790</b>	<b>242030</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0002 U	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.0321</b>	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.0002 U	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>0.0321</b>	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	<10.3 U	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	<6.44 U	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	<10.3 U	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	<b>14.0 J</b>	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	<b>105</b>	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	<6.44 U	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	<10.3 U	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	<b>14.1</b>	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	<10.3 U	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	<b>28.1</b>	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	<6.44	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

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mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

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Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 S15-SB237 5.5-6.5  S15-SB237 (5.5-6.5)-1 12/28/2011 SB41720	AOC-1 S15-SS185 0-0.25  S15-SS185 0-3 8/12/2011 SB33374	AOC-1 S15-SS36 0-0.5  S15-SS36-080411 8/4/2011 SB32875	AOC-1 S16-SB366 3.5-4  S16-SB366 (3.5-4)-041212-1 4/12/2012 SB47192	AOC-1 S16-SB366 7.5-8.5  S16-SB366 (7.5-8.5)- 041212-1 4/12/2012 SB47192	AOC-1 S16-SB366 7.5-8.5  S16-SB366 (7.5-8.5)- 041212-1 4/12/2012 SB47192	AOC-1 S16-SB366 11.5-12  S16-SB366 (11.5-12)- 041212-1 4/12/2012 SB47192	AOC-1 S7-SB410 1-1.5  S7-SB410(1-1.5)-062812-1 6/28/2012 SB51990	AOC-1 S7-SB410 2-3  S7-SB410(2-3)-062812-1 6/28/2012 SB51990	AOC-1 S7-SB410 11.5-12.5  S7-SB410(11.5-12.5)- 062812-1 6/28/2012 SB51990	AOC-1 S7-SS31 0-0.5  S7-SS31-080411 8/4/2011 SB32875	AOC-1 S8-SS217 0-0.25  S8-SS217 0-3 8/12/2011 SB33374	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	<14.0 U	NS	NS	NS	256	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	<14.0 U	NS	NS	NS	256	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	<14.0 U	NS	NS	NS	256	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	<12.7 U	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	<12.7 U	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<63.5 U	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<63.5 U	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<12.7 U	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<12.7 U	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<63.5 U	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	<12.7 U	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<6.4	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<12.7 U	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	<6.4 U	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 S15-SB237 5.5-6.5 S15-SB237 (5.5-6.5)-1 12/28/2011 SB41720	AOC-1 S15-SS185 0-0.25 S15-SS185 0-3 8/12/2011 SB33374	AOC-1 S15-SS36 0-0.5 S15-SS36-080411 8/4/2011 SB32875	AOC-1 S16-SB366 3.5-4 S16-SB366 (3.5-4)-041212-1 4/12/2012 SB47192	AOC-1 S16-SB366 7.5-8.5 S16-SB366 (7.5-8.5)- 041212-1 4/12/2012 SB47192	AOC-1 S16-SB366 7.5-8.5 S16-SB366 (7.5-8.5)- 041212-1 4/12/2012 SB47192	AOC-1 S16-SB366 11.5-12 S16-SB366 (11.5-12)- 041212-1 4/12/2012 SB47192	AOC-1 S7-SB410 1-1.5 S7-SB410(1-1.5)-062812-1 6/28/2012 SB51990	AOC-1 S7-SB410 2-3 S7-SB410(2-3)-062812-1 6/28/2012 SB51990	AOC-1 S7-SB410 11.5-12.5 S7-SB410(11.5-12.5)- 062812-1 6/28/2012 SB51990	AOC-1 S7-SS31 0-0.5 S7-SS31-080411 8/4/2011 SB32875	AOC-1 S8-SS217 0-0.25 S8-SS217 0-3 8/12/2011 SB33374	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<28.3 U	<21.1 U	<22.0 U	<21.4 U	NS	<22.3 U	<21.9 U	<21.0 U	<22.0 U	<22.9 U	<22.2 U	<26.9 U	
Aroclor 1248	NE	NE	NE	<b>30600</b>	<21.1 U	<22.0 U	<21.4 U	NS	<22.3 U	<21.9 U	<21.0 U	<b>1130</b>	<22.9 U	<b>122</b>	<26.9 U	
Aroclor 1254	NE	NE	NE	<28.3 U	<21.1 U	<22.0 U	<21.4 U	NS	<22.3 U	<21.9 U	<21.0 U	<22.0 U	<22.9 U	<22.2 U	<26.9 U	
Aroclor 1260	NE	NE	NE	<b>180</b>	<21.1 U	<22.0 U	<21.4 U	NS	<22.3 U	<21.9 U	<21.0 U	<b>67.2</b>	<22.9 U	<22.2 U	<26.9 U	
Aroclor 1262	NE	NE	NE	<28.3 U	<21.1 U	<22.0 U	<21.4 U	NS	<22.3 U	<21.9 U	<21.0 U	<22.0 U	<22.9 U	<22.2 U	<26.9 U	
Total PCB Aroclors	NE	1000	10000	<b>30780</b>	<21.1 U	<22.0 U	<21.4 U	NS	<22.3 U	<21.9 U	<21.0 U	<b>1200</b>	<22.9 U	<b>122</b>	<26.9 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	<8.24 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	<b>6.00 J-</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	<b>10.9 J-</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	<b>12.0 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	<b>62.0 J-</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	<5.15 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	<8.24 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	<b>11.7 J-</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	<8.24 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	<b>23.7</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	<b>16.9</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

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Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 S8-SS219 0-0.25  S8-SS219 0-3 8/12/2011 SB33374	AOC-1 S9-SB236 1-2  S9-SB236 (1-2)-1 12/27/2011 SB41720	AOC-1 S9-SB236 2.5-3.5  S9-SB236 (2.5-3.5) 12/27/2011 SB41720	AOC-1 S9-SB236 6-7  S9-SB236 (6-7) 12/27/2011 SB41720	AOC-1 S9-SS208 0-0.25  S9-SS208 0-3 8/12/2011 SB33374	AOC-1 S9-SS209 0-0.25  S9-SS209 0-3 8/12/2011 SB33374	AOC-1 S9-SS32 0-0.25  S9-SS32 0-3 8/12/2011 SB33374	AOC-1 S9-SS32 0-0.5  S9-SS32-080411 8/4/2011 SB32875	AOC-1 T10-SS203 0-0.25  T10-SS203 0-3 8/12/2011 SB33374	AOC-1 T12-SS146 0-0.5  T12-SS146-080511 8/5/2011 SB32945	AOC-1 T13-SS306 0-0.25  T13SS306 0-3-082311 8/23/2011 SB34022	AOC-1 T13-SS38 0-0.25  T13SS38 0-3 8/31/2011 SB34491	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.6 U	<22.0 U	<23.8 U	<41.1 U	<25.4 U	<25.0 U	<23.8 U	<23.8 U	<28.0 U	<21.6 U	<24.3 U	<21.8	
Aroclor 1248	NE	NE	NE	<23.6 U	<b>168</b>	<23.8 U	<41.1 U	<25.4 U	<25.0 U	<b>156</b>	<b>1210</b>	<28.0 U	<21.6 U	<24.3 U	<21.8	
Aroclor 1254	NE	NE	NE	<23.6 U	<22.0 U	<23.8 U	<41.1 U	<25.4 U	<25.0 U	<23.8 U	<23.8 U	<28.0 U	<21.6 U	<24.3 U	<21.8	
Aroclor 1260	NE	NE	NE	<23.6 U	<22.0 U	<b>63</b>	<41.1 U	<25.4 U	<25.0 U	<23.8 U	<b>41.7</b>	<28.0 U	<21.6 U	<24.3 U	<21.8	
Aroclor 1262	NE	NE	NE	<23.6 U	<22.0 U	<23.8 U	<41.1 U	<25.4 U	<25.0 U	<23.8 U	<23.8 U	<28.0 U	<21.6 U	<24.3 U	<21.8	
Total PCB Aroclors	NE	1000	10000	<23.6 U	<b>168</b>	<b>63</b>	<41.1 U	<25.4 U	<25.0 U	<b>156</b>	<b>1250</b>	<28.0 U	<21.6 U	<24.3 U	<21.8 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.14 U	NS	<8.85	
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<3.84 U	NS	<5.53	
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<i>&lt;6.14 U</i>	NS	<i>&lt;8.85</i>	
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<3.84 U	NS	<5.53	
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15.4 U	NS	<22.1	
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	<3.84 U	NS	<5.53	
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.14 U	NS	<8.85	
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<3.84 U	NS	<5.53	
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.14 U	NS	<8.85	
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<3.84	NS	<5.53	
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.14	NS	<8.85	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 T13-SS38 0-0.5 T13-SS38-080411 8/4/2011 SB32875	AOC-1 T14-SB330 5-5.5 T14-SB330 (5-5.5) 041112-1 4/11/2012 SB47196	AOC-1 T14-SB330 5.5-6.5 T14-SB330 (5.5-6.5) 041112-1 4/11/2012 SB47196	AOC-1 T14-SS39 0-0.25 T14-SS39 0-3 8/12/2011 SB33374	AOC-1 T14-SS39 0-0.5 T14-SS39-080411 8/4/2011 SB32875	AOC-1 T15-SB365 2.5-3 T15-SB365 (2.5-3)-041212-1 4/12/2012 SB47192	AOC-1 T15-SB365 4-5 T15-SB365 (4-5)-041212-1 4/12/2012 SB47192	AOC-1 T15-SB365 11.5-12 T15-SB365 (11.5-12)- 041212-1 4/12/2012 SB47192	AOC-1 T15-SS40 0-0.5 T15-SS40-080411 8/4/2011 SB32875	AOC-1 T16-SB367 2-2.5 T16-SB367 (2-2.5) 041212-1 4/12/2012 SB47192	AOC-1 T16-SB367 7-8 T16-SB367 (7-8)-041012-1 4/10/2012 SB47192	AOC-1 T16-SB367 11.5-12 T16-SB367 (11.5-12) 041212-1 4/12/2012 SB47192	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	37.9	NS	NS	NS	<14.3 U	NS	NS	NS	<14.5 U	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	37.9	NS	NS	NS	<14.3 U	NS	NS	NS	<14.5 U	NS	NS
Unidentified	NE	NE	NE	NS	NS	37.9	NS	NS	NS	<14.3 U	NS	NS	NS	<14.5 U	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	382	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	113	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	<163 U	NS	NS	NS	NS	NS	NS	NS	NS	<14.5 U	NS	NS
1,2-Dibromoethane	10	7	67	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	107	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
1,4-Dioxane	100	6100	57000	NS	<1630 U	NS	NS	NS	NS	NS	NS	NS	NS	<145 U	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	<816 U	NS	NS	NS	NS	NS	NS	NS	NS	<72.5 U	NS	NS
Acetone	14000	500000	1000000	NS	<816 U	NS	NS	NS	NS	NS	NS	NS	NS	<72.5 U	NS	NS
Acrylonitrile	10	1100	11000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Benzene	20	21000	200000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Bromoform	80	78000	720000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Carbon tetrachloride	100	4700	44000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Chlorobenzene	2000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Chloroethane	150	130000	1000000	NS	<163 U	NS	NS	NS	NS	NS	NS	NS	NS	<14.5 U	NS	NS
Chloroform	120	100000	940000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	87.3	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Dibromochloromethane	10	7300	68000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Ethyl ether	NE	NE	NE	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Ethylbenzene	10100	500000	1000000	NS	113	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Isopropylbenzene	500	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
m,p-Xylenes	NE	NE	NE	NS	259	NS	NS	NS	NS	NS	NS	NS	NS	<14.5 U	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	<816 U	NS	NS	NS	NS	NS	NS	NS	NS	<72.5 U	NS	NS
Methylene chloride	100	82000	760000	NS	<163 U	NS	NS	NS	NS	NS	NS	NS	NS	<14.5 U	NS	NS
Naphthalene	5600	1000000	2500000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
o-Xylene	NE	NE	NE	NS	136	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	658	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Styrene	2000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Tetrachloroethylene	100	12000	110000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Toluene	20000	500000	1000000	NS	186	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Total Xylenes	19500	500000	1000000	NS	395	NS	NS	NS	NS	NS	NS	NS	NS	<14.5 U	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Trichloroethene	100	56000	520000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS
Vinyl chloride	40	320	3000	NS	<81.6 U	NS	NS	NS	NS	NS	NS	NS	NS	<7.3 U	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 T13-SS38 0-0.5 T13-SS38-080411 8/4/2011 SB32875	AOC-1 T14-SB330 5-5.5 T14-SB330 (5.5-5.5) 041112-1 4/11/2012 SB47196	AOC-1 T14-SB330 5.5-6.5 T14-SB330 (5.5-6.5) 041112-1 4/11/2012 SB47196	AOC-1 T14-SS39 0-0.25 T14-SS39 0-3 8/12/2011 SB33374	AOC-1 T14-SS39 0-0.5 T14-SS39-080411 8/4/2011 SB32875	AOC-1 T15-SB365 2.5-3 T15-SB365 (2.5-3)-041212-1 4/12/2012 SB47192	AOC-1 T15-SB365 4-5 T15-SB365 (4-5)-041212-1 4/12/2012 SB47192	AOC-1 T15-SB365 11.5-12 T15-SB365 (11.5-12)- 041212-1 4/12/2012 SB47192	AOC-1 T15-SS40 0-0.5 T15-SS40-080411 8/4/2011 SB32875	AOC-1 T16-SB367 2-2.5 T16-SB367 (2-2.5) 041212-1 4/12/2012 SB47192	AOC-1 T16-SB367 7-8 T16-SB367 (7-8)-041012-1 4/10/2012 SB47192	AOC-1 T16-SB367 11.5-12 T16-SB367 (11.5-12) 041212-1 4/12/2012 SB47192	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.2 U	<23800 U	<1030 U	<26.2 U	<22.7 U	<22.2 U	<21.3 U	<21.9 U	<22.4 U	<20.8 U	<21.4 U	<20.4 U	<20.4 U
Aroclor 1248	NE	NE	NE	<21.2 U	<b>236000</b>	<b>16400</b>	<26.2 U	<22.7 U	<b>27400</b>	<21.3 U	<21.9 U	<22.4 U	<b>128</b>	<21.4 U	<20.4 U	<20.4 U
Aroclor 1254	NE	NE	NE	<21.2 U	<23800 U	<1030 U	<26.2 U	<22.7 U	<22.2 U	<21.3 U	<21.9 U	<22.4 U	<20.8 U	<21.4 U	<20.4 U	<20.4 U
Aroclor 1260	NE	NE	NE	<21.2 U	<23800 U	<1030 U	<26.2 U	<22.7 U	<b>374</b>	<21.3 U	<21.9 U	<22.4 U	<20.8 U	<21.4 U	<20.4 U	<20.4 U
Aroclor 1262	NE	NE	NE	<21.2 U	<23800 U	<1030 U	<26.2 U	<22.7 U	<22.2 U	<21.3 U	<21.9 U	<22.4 U	<20.8 U	<21.4 U	<20.4 U	<20.4 U
Total PCB Aroclors	NE	1000	10000	<21.2 U	<b>236000</b>	<b>16400</b>	<26.2 U	<22.7 U	<b>27774</b>	<21.3 U	<21.9 U	<22.4 U	<b>128</b>	<21.4 U	<20.4 U	<20.4 U
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<10.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<b>347</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<b>70.2</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>3080 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>23000</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<6.50 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<10.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>3520</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<10.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>6600</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<b>417.2</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

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Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 T16-SS41 0-0.5 T16-SS41-080411 8/4/2011 SB32875	AOC-1 T17-SS265 0-0.25 T17-SS265 (0-3") 8/22/2011 SB33952	AOC-1 T6-SB428 1-2 T6-SB428(1-2)070312-1 7/3/2012 SB52216	AOC-1 T6-SB428 5-6 T6-SB428(5-6)070312-1 7/3/2012 SB52216	AOC-1 T6-SB428 11.5-12.5 T6-SB428(11.5-12.5)070312-1 7/3/2012 SB52216	AOC-1 T6-SS223 0-0.25 T6-SS223 0-3 8/12/2011 SB33374	AOC-1 T8-SS216 0-0.25 T8-SS216 0-3 8/12/2011 SB33374	AOC-1 T9-SS207 0-0.25 T9-SS207 0-3 8/12/2011 SB33374	AOC-1 U11-SB421 2-3 U11-SB421(2-3)070212-1 7/2/2012 SB52216	AOC-1 U11-SB421 6-7 U11-SB421(6-7)070212-1 7/2/2012 SB52216	AOC-1 U11-SB421 11.5-12.5 U11-SB421(11.5-12.5)070212-1 7/2/2012 SB52216	AOC-1 U11-SS44 0-0.25 U11-SS44 0-3 8/12/2011 SB33374	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<21.1 U	<20.9 U	<22.6 U	<38.9 U	<21.7 U	<23.7 U	<24.5 U	<24.7 U	<21.1 U	<23.2 U	<69.3 UJ	<24.7 U	
Aroclor 1248	NE	NE	NE	<21.1 U	<20.9 U	<22.6 U	<38.9 U	<21.7 U	<23.7 U	<24.5 U	<24.7 U	<b>1930</b>	<b>3130</b>	<69.3 UJ	<b>66.7</b>	
Aroclor 1254	NE	NE	NE	<21.1 U	<20.9 U	<22.6 U	<38.9 U	<21.7 U	<23.7 U	<24.5 U	<24.7 U	<21.1 U	<23.2 U	<69.3 UJ	<24.7 U	
Aroclor 1260	NE	NE	NE	<21.1 U	<20.9 U	<22.6 U	<38.9 U	<21.7 U	<23.7 U	<24.5 U	<24.7 U	<b>151</b>	<b>215</b>	<69.3 UJ	<24.7 U	
Aroclor 1262	NE	NE	NE	<21.1 U	<20.9 U	<22.6 U	<38.9 U	<21.7 U	<23.7 U	<24.5 U	<24.7 U	<21.1 U	<23.2 U	<69.3 UJ	<24.7 U	
Total PCB Aroclors	NE	1000	10000	<21.1 U	<20.9 U	<22.6 U	<38.9 U	<21.7 U	<23.7 U	<24.5 U	<24.7 U	<b>2080</b>	<b>3350</b>	<69.3 U	<b>66.7</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 U11-SS44 0-0.5  U11-SS44-080411 8/4/2011 SB32875	AOC-1 U12-SS195 0-0.25  U12-SS195 0-3 8/12/2011 SB33374	AOC-1 U12-SS310 0-0.25  U12SS310 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SB233 0.5-2.5  U13-SB233(0.5-2.5)-1 12/29/2011 SB41766	AOC-1 U13-SB233 0.5-2.5  U13-SB233(0.5-2.5)-2 12/29/2011 SB41766	AOC-1 U13-SB233 2.5-4.5  U13-SB233(2.5-4.5)-1 12/27/2011 SB41683	AOC-1 U13-SB233 7-8  U13-SB233(7-8)-1 12/27/2011 SB41683	AOC-1 U13-SB233 8-9  U13-SB233(8-9)-1 12/27/2011 SB41683	AOC-1 U13-SS307 0-0.25  U13SS307 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SS311 0-0.25  U13SS311 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SS45 0-0.25  U13-SS45 0-3 8/12/2011 SB33374	AOC-1 U13-SS45 0-0.5  U13-SS45-080411 8/4/2011 SB32875	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	<35.5 U	NS	NS	NS	NS	596	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	<35.5 U	NS	NS	NS	NS	596	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	<35.5 U	NS	NS	NS	NS	596	NS	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.1 U	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.1 U	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.1 U	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	116	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	214	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	<226 U	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	<2260 U	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	<1130 U	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	<1130 U	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	469	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	<226 U	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	159	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	172	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	310	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	354	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<1130 U	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	<226 U	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	211	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	126	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	467	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	409	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	716	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	211	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	480	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	1150	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	<113 U	NS	NS	NS	NS	NS	NS



**Soil Analytical Data  
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Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 U11-SS44 0-0.5  U11-SS44-080411 8/4/2011 SB32875	AOC-1 U12-SS195 0-0.25  U12-SS195 0-3 8/12/2011 SB33374	AOC-1 U12-SS310 0-0.25  U12SS310 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SB233 0.5-2.5  U13-SB233(0.5-2.5)-1 12/29/2011 SB41766	AOC-1 U13-SB233 0.5-2.5  U13-SB233(0.5-2.5)-2 12/29/2011 SB41766	AOC-1 U13-SB233 2.5-4.5  U13-SB233(2.5-4.5)-1 12/27/2011 SB41683	AOC-1 U13-SB233 7-8  U13-SB233(7-8)-1 12/27/2011 SB41683	AOC-1 U13-SB233 8-9  U13-SB233(8-9)-1 12/27/2011 SB41683	AOC-1 U13-SS307 0-0.25  U13SS307 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SS311 0-0.25  U13SS311 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SS45 0-0.25  U13-SS45 0-3 8/12/2011 SB33374	AOC-1 U13-SS45 0-0.5  U13-SS45-080411 8/4/2011 SB32875	
<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methanamine, n-methyl-n-nitros	NE	200	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	<1.25 UJ	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	<1.25 UJ	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	<1.25 UJ	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.125 UJ	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.0625 UJ	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.125 UJ	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.25 UJ	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.25 UJ	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.25 UJ	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.0625 UJ	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.25 UJ	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	<1.25	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	NS	NS	NS	NS	NS	<4.74 U	12.5	NS	NS	NS	NS	NS	NS
Arsenic	NE	10	10	NS	NS	NS	NS	NS	1.5	24	NS	NS	NS	NS	NS	NS
Barium	NE	4700	140000	NS	NS	NS	NS	NS	99.1	1020	NS	NS	NS	NS	NS	NS
Beryllium	NE	2	2	NS	NS	NS	NS	NS	0.531	<0.617 U	NS	NS	NS	NS	NS	NS
Cadmium	NE	34	1000	NS	NS	NS	NS	NS	0.73	10.8	NS	NS	NS	NS	NS	NS
Chromium	NE	NE	NE	NS	NS	NS	NS	NS	17.2	61.9	NS	NS	NS	NS	NS	NS
Copper	NE	2500	76000	NS	NS	NS	NS	NS	13.4	610	NS	NS	NS	NS	NS	NS
Lead	NE	400	1000	NS	NS	NS	NS	NS	13.1	3980	NS	NS	NS	NS	NS	NS
Mercury	NE	20	610	NS	NS	NS	NS	NS	<0.0312 U	1.41	NS	NS	NS	NS	NS	NS
Nickel	NE	1400	7500	NS	NS	NS	NS	NS	13.2	126	NS	NS	NS	NS	NS	NS
Selenium	NE	340	10000	NS	NS	NS	NS	NS	<1.42 U	<2.65 U	NS	NS	NS	NS	NS	NS
Silver	NE	340	10000	NS	NS	NS	NS	NS	<1.42 U	2.62	NS	NS	NS	NS	NS	NS
Thallium	NE	5.4	160	NS	NS	NS	NS	NS	<2.85 U	<7.40 U	NS	NS	NS	NS	NS	NS
Vanadium	NE	470	14000	NS	NS	NS	NS	NS	20.9	90.2	NS	NS	NS	NS	NS	NS
Zinc	NE	20000	610000	NS	NS	NS	NS	NS	34.7	1820	NS	NS	NS	NS	NS	NS
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	<0.0065 U	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	<0.0040 U	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	0.146	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	<0.0025 U	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	0.0114	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	0.035	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	<0.0050 U	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	<0.0460 U	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	NS	<1.39 U	NS	NS	NS	NS	NS	NS

**Soil Analytical Data  
Greenwich High School  
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Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 U11-SS44 0-0.5  U11-SS44-080411 8/4/2011 SB32875	AOC-1 U12-SS195 0-0.25  U12-SS195 0-3 8/12/2011 SB33374	AOC-1 U12-SS310 0-0.25  U12SS310 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SB233 0.5-2.5  U13-SB233(0.5-2.5)-1 12/29/2011 SB41766	AOC-1 U13-SB233 0.5-2.5  U13-SB233(0.5-2.5)-2 12/29/2011 SB41766	AOC-1 U13-SB233 2.5-4.5  U13-SB233(2.5-4.5)-1 12/27/2011 SB41683	AOC-1 U13-SB233 7-8  U13-SB233(7-8)-1 12/27/2011 SB41683	AOC-1 U13-SB233 8-9  U13-SB233(8-9)-1 12/27/2011 SB41683	AOC-1 U13-SS307 0-0.25  U13SS307 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SS311 0-0.25  U13SS311 0-3-082311 8/23/2011 SB34022	AOC-1 U13-SS45 0-0.25  U13-SS45 0-3 8/12/2011 SB33374	AOC-1 U13-SS45 0-0.5  U13-SS45-080411 8/4/2011 SB32875	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<23.4 U	<27.7 U	<26.3 U	<22.7 U	<22.9 U	<22.0 U	<27.4 U	<26.3 U	<27.2 U	<26.8 U	<27.3 U	<22.3 U	
Aroclor 1248	NE	NE	NE	<b>86.1</b>	<b>72.2</b>	<b>74.4</b>	<b>79.6</b>	<b>103</b>	<22.0 U	<b>5310</b>	<26.3 U	<27.2 U	<b>120</b>	<b>786</b>	<b>570</b>	
Aroclor 1254	NE	NE	NE	<23.4 U	<27.7 U	<26.3 U	<22.7 U	<22.9 U	<22.0 U	<27.4 U	<26.3 U	<27.2 U	<26.8 U	<27.3 U	<22.3 U	
Aroclor 1260	NE	NE	NE	<b>24.8</b>	<b>35.4</b>	<26.3 U	<22.7 U	<22.9 U	<22.0 U	<b>264</b>	<26.3 U	<27.2 U	<26.8 U	<b>69.2</b>	<b>99.4</b>	
Aroclor 1262	NE	NE	NE	<23.4 U	<27.7 U	<26.3 U	<22.7 U	<22.9 U	<22.0 U	<27.4 U	<26.3 U	<27.2 U	<26.8 U	<27.3 U	<22.3 U	
Total PCB Aroclors	NE	1000	10000	<b>111</b>	<b>108</b>	<b>74.4</b>	<b>79.6</b>	<b>103</b>	<22.0 U	<b>5570</b>	<26.3 U	<27.2 U	<b>120</b>	<b>855</b>	<b>669</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.000286 U	NS	NS	NS	NS	NS	
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.000286 U	NS	NS	NS	NS	NS	
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	<0.000286 U	NS	NS	NS	NS	NS	
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	<0.000286 U	NS	NS	NS	NS	NS	
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	<11.1 UJ	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 UJ	NS	
4,4-DDE (p,p)	NE	NE	NE	NS	<6.93 UJ	NS	NS	NS	NS	NS	NS	NS	NS	<6.94 UJ	NS	
4,4-DDT (p,p)	3	1800	17000	NS	<11.1 UJ	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 UJ	NS	
alpha-Chlordane	NE	NE	NE	NS	<b>21.6 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	<6.94 UJ	NS	
Chlordane	NE	490	2200	NS	<b>70.1 J-</b>	NS	NS	NS	NS	NS	NS	NS	NS	<27.7 UJ	NS	
Dieldrin	7	38	360	NS	<6.93 UJ	NS	NS	NS	NS	NS	NS	NS	NS	<6.94 UJ	NS	
Endrin (40)	40	20000	610000	NS	<11.1 UJ	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 UJ	NS	
gamma-Chlordane	NE	NE	NE	NS	<b>18.3 J-</b>	NS	NS	NS	NS	NS	NS	NS	NS	<6.94 UJ	NS	
Methoxychlor	800	340000	10000000	NS	<11.1 UJ	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 UJ	NS	
Total Chlordanes	66	490	2200	NS	<b>39.9</b>	NS	NS	NS	NS	NS	NS	NS	NS	<6.94	NS	
Total DDx	NE	NE	NE	NS	<6.93	NS	NS	NS	NS	NS	NS	NS	NS	<6.94	NS	
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 U14-SB329 2-2.5 U14-SB329 (2-2.5) 041112 1 4/11/2012 SB47196	AOC-1 U14-SB329 4-4.5 U14-SB329 (4-4.5) 041112 1 4/11/2012 SB47196	AOC-1 U14-SB329 5-5.5 U14-SB329 (5-5.5) 041112 1 4/11/2012 SB47196	AOC-1 U14-SS46 0-0.25 U14SS46 0-3 8/31/2011 SB34491	AOC-1 U14-SS46 0-0.5 U14-SS46-080411 8/4/2011 SB32875	AOC-1 U15-SB328 2.5-3 U15-SB328 (2.5-3) 041112 1 4/11/2012 SB47196	AOC-1 U15-SB328 5-5.5 U15-SB328 (5-5.5) 041112 1 4/11/2012 SB47196	AOC-1 U15-SS47 0-0.25 U15-SS47 0-3 8/12/2011 SB33374	AOC-1 U15-SS47 0-0.5 U15-SS47-080411 8/4/2011 SB32875	AOC-1 U16-SB368 3.5-4 U16-SB368 (3.5-4) 041212 1 4/12/2012 SB47192	AOC-1 U16-SB368 5.5-6 U16-SB368 (5.5-6) 041212 1 4/12/2012 SB47192	AOC-1 U16-SB368 11.5-12 U16-SB368 (11.5-12) 041212-1 4/12/2012 SB47192	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	904	NS	NS	NS	268	NS	NS	NS	NS	27.1	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	904	NS	NS	NS	268	NS	NS	NS	NS	27.1	NS	NS
Unidentified	NE	NE	NE	NS	904	NS	NS	NS	268	NS	NS	NS	NS	27.1	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	<96.4 UJ	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	129	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	<193 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	<1930 U	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	<964 U	NS	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	<964 UJ	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	<193 U	NS	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	202	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	591	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	<964 U	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	<193 U	NS	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	345	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	225	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	366	NS	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	345	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	816	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	98.3	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	<96.4 U	NS	NS	NS	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 U14-SB329 2-2.5 U14-SB329 (2-2.5) 041112 1 4/11/2012 SB47196	AOC-1 U14-SB329 4-4.5 U14-SB329 (4-4.5) 041112 1 4/11/2012 SB47196	AOC-1 U14-SB329 5-5.5 U14-SB329 (5-5.5) 041112 1 4/11/2012 SB47196	AOC-1 U14-SS46 0-0.25 U14SS46 0-3 8/31/2011 SB34491	AOC-1 U14-SS46 0-0.5 U14-SS46-080411 8/4/2011 SB32875	AOC-1 U15-SB328 2.5-3 U15-SB328 (2.5-3) 041112 1 4/11/2012 SB47196	AOC-1 U15-SB328 5-5.5 U15-SB328 (5-5.5) 041112 1 4/11/2012 SB47196	AOC-1 U15-SS47 0-0.25 U15-SS47 0-3 8/12/2011 SB33374	AOC-1 U15-SS47 0-0.5 U15-SS47-080411 8/4/2011 SB32875	AOC-1 U16-SB368 3-5-4 U16-SB368 (3.5-4) 041212 1 4/12/2012 SB47192	AOC-1 U16-SB368 5-5-6 U16-SB368 (5.5-6) 041212 1 4/12/2012 SB47192	AOC-1 U16-SB368 11.5-12 U16-SB368 (11.5-12) 041212-1 4/12/2012 SB47192	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<2070 U	<24.7 U	<2050 U	<29.0	<23.1 U	<24500 U	<216 U	<24.0 U	<22.6 U	<22.2 U	<27.3 U	<21.0 U	
Aroclor 1248	NE	NE	NE	<b>16900</b>	<b>1260</b>	<b>94200</b>	<29.0	<b>117</b>	<b>661000</b>	<b>3520</b>	<b>55.1</b>	<b>430</b>	<b>3300</b>	<27.3 U	<21.0 U	
Aroclor 1254	NE	NE	NE	<2070 U	<b>1130</b>	<2050 U	<29.0	<23.1 U	<24500 U	<216 U	<24.0 U	<22.6 U	<22.2 U	<27.3 U	<21.0 U	
Aroclor 1260	NE	NE	NE	<2070 U	<b>244</b>	<2050 U	<29.0	<23.1 U	<24500 U	<216 U	<24.0 U	<b>35.8</b>	<b>93.2</b>	<27.3 U	<b>44.1</b>	
Aroclor 1262	NE	NE	NE	<2070 U	<24.7 U	<2050 U	<29.0	<23.1 U	<24500 U	<216 U	<24.0 U	<22.6 U	<22.2 U	<27.3 U	<21.0 U	
Total PCB Aroclors	NE	1000	10000	<b>16900</b>	<b>2630</b>	<b>94200</b>	<29.0 U	<b>117</b>	<b>661000</b>	<b>3520</b>	<b>55.1</b>	<b>466</b>	<b>3390</b>	<27.3 U	<b>44.1</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<8.19	NS	NS	NS	<9.35 UJ	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<5.12	NS	NS	NS	<5.84 UJ	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<8.19	NS	NS	NS	<9.35 UJ	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>8.1</b>	NS	NS	NS	<b>9.40 J</b>	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>76.8</b>	NS	NS	NS	<b>34.6 J-</b>	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<5.12	NS	NS	NS	<5.84 UJ	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<8.19	NS	NS	NS	<9.35 UJ	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>8.11</b>	NS	NS	NS	<b>11.1 J-</b>	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<8.19	NS	NS	NS	<9.35 UJ	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>16.21</b>	NS	NS	NS	<b>20.5</b>	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<8.19	NS	NS	NS	<9.35	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

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Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

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GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 U16-SS48 0-0.5 U16-SS48-080411 8/4/2011 SB32875	AOC-1 U17-SS184 0-0.25 U17-SS184 0-3 8/12/2011 SB33374	AOC-1 U17-SS266 0-0.25 U17-SS266 (0-3") 8/22/2011 SB33952	AOC-1 U17-SS49 0-0.25 U17-SS49 0-3 8/12/2011 SB33374	AOC-1 U17-SS49 0-0.5 U17-SS49-080411 8/4/2011 SB32875	AOC-1 U7-SB409 1-1.3 U7-SB409(1-1.3)-062812-1 6/28/2012 SB51990	AOC-1 U7-SB409 1.5-2.5 U7-SB409(1.5-2.5)-062812-1 6/28/2012 SB51990	AOC-1 U7-SB409 11.5-12.5 U7-SB409(11.5-12.5)-062812-1 6/28/2012 SB51990	AOC-1 U7-SB409 11.5-12.5 U7-SB409(11.5-12.5)-062812-2 6/28/2012 SB51990	AOC-1 U7-SS42 0-0.5 U7-SS42 8/4/2011 SB32875	AOC-1 U9-SS43 0-0.5 U9-SS43-080411 8/4/2011 SB32875	AOC-1 V10-SS145 0-0.25 V10-SS145 0-3 8/12/2011 SB33374
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<19.9 U	<22.3 U	<20.7 U	<23.4 U	<21.1 U	<22.3 U	<23.0 U	<28.5 U	<30.9 U	<22.7 U	<22.8 U	<25.8 U
Aroclor 1248	NE	NE	NE	<19.9 U	<b>132</b>	<20.7 U	<b>276</b>	<b>583</b>	<22.3 U	<b>312</b>	<28.5 U	<30.9 U	<22.7 U	<22.8 U	<b>48.1</b>
Aroclor 1254	NE	NE	NE	<19.9 U	<22.3 U	<20.7 U	<23.4 U	<21.1 U	<22.3 U	<23.0 U	<28.5 U	<30.9 U	<22.7 U	<22.8 U	<25.8 U
Aroclor 1260	NE	NE	NE	<19.9 U	<22.3 U	<20.7 U	<b>53.8</b>	<b>51.6</b>	<22.3 U	<b>410</b>	<28.5 U	<30.9 U	<22.7 U	<22.8 U	<25.8 U
Aroclor 1262	NE	NE	NE	<19.9 U	<22.3 U	<20.7 U	<23.4 U	<21.1 U	<22.3 U	<23.0 U	<28.5 U	<30.9 U	<22.7 U	<22.8 U	<25.8 U
Total PCB Aroclors	NE	1000	10000	<19.9 U	<b>132</b>	<20.7 U	<b>330</b>	<b>635</b>	<22.3 U	<b>722</b>	<28.5 U	<30.9 U	<22.7 U	<22.8 U	<b>48.1</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 V10-SS145 0-0.5 V10-SS145-080511 8/5/2011 SB32945	AOC-1 V12-SB422 3-4 V12-SB422(3-4)070212-1 7/2/2012 SB52216	AOC-1 V12-SB422 4-7 V12-SB422(4-7)070212-1 7/2/2012 SB52216	AOC-1 V12-SB422 13.5-14 V12-SB422(13.5-14)070212-1 7/2/2012 SB52216	AOC-1 V12-SS194 0-0.25 V12-SS194 0-3 8/12/2011 SB33374	AOC-1 V13-SS51 0-0.25 V13-SS51 0-3 8/12/2011 SB33374	AOC-1 V13-SS51 0-0.5 V13-SS51-080411 8/4/2011 SB32875	AOC-1 V14-SS52 0-0.25 V14-SS52 0-3 8/12/2011 SB33374	AOC-1 V14-SS52 0-0.5 V14-SS52-080411 8/4/2011 SB32875	AOC-1 V15-SS299 0-0.25 V15SS299 0-3-082311 8/23/2011 SB34022	AOC-1 V15-SS53 0-0.5 V15-SS53-080411 8/4/2011 SB32875	AOC-1 V16-SB34 1-2 V16-SB34 1-2 8/10/2011 SB33209	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<25.2 U	<21.7 U	<22.0 U	<21.4 U	<23.8 U	<23.7 U	<21.4 U	<21.5 U	<22.4 U	<23.5 U	<22.4 U	<21.0 U	
Aroclor 1248	NE	NE	NE	<25.2 U	<b>3960</b>	<b>1880 J</b>	<21.4 U	<b>313</b>	<b>237</b>	<b>549</b>	<b>77.2</b>	<b>195</b>	<b>101</b>	<b>205</b>	<21.0 U	
Aroclor 1254	NE	NE	NE	<25.2 U	<21.7 U	<22.0 U	<21.4 U	<23.8 U	<23.7 U	<21.4 U	<21.5 U	<22.4 U	<23.5 U	<22.4 U	<21.0 U	
Aroclor 1260	NE	NE	NE	<25.2 U	<b>123</b>	<b>41.8 J</b>	<21.4 U	<b>48.5</b>	<b>33.4</b>	<b>60.8</b>	<21.5 U	<b>23</b>	<23.5 U	<22.4 U	<21.0 U	
Aroclor 1262	NE	NE	NE	<25.2 U	<21.7 U	<22.0 U	<21.4 U	<23.8 U	<23.7 U	<21.4 U	<21.5 U	<22.4 U	<23.5 U	<22.4 U	<21.0 U	
Total PCB Aroclors	NE	1000	10000	<25.2 U	<b>4080</b>	<b>1920</b>	<21.4 U	<b>362</b>	<b>270</b>	<b>610</b>	<b>77.2</b>	<b>218</b>	<b>101</b>	<b>205</b>	<21.0 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<9.89 U	NS	NS	NS	NS	NS	NS	<8.96 UJ	NS	<9.23 U	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<b>6.40 J</b>	NS	NS	NS	NS	NS	NS	<b>5.67 J-</b>	NS	<5.77 U	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<9.89 R	NS	NS	NS	NS	NS	NS	<8.96 UJ	NS	<9.23 U	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<b>7.47 J</b>	NS	NS	NS	NS	NS	NS	<b>10.2 J</b>	NS	<b>8.10 J</b>	NS	NS	NS
Chlordane	NE	490	2200	<b>27.7</b>	NS	NS	NS	NS	NS	NS	<b>103 J-</b>	NS	<b>28.3</b>	NS	NS	NS
Dieldrin	7	38	360	<6.18 U	NS	NS	NS	NS	NS	NS	<5.60 UJ	NS	<5.77 U	NS	NS	NS
Endrin (40)	40	20000	610000	<9.89 U	NS	NS	NS	NS	NS	NS	<8.96 UJ	NS	<9.23 U	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<b>7.06</b>	NS	NS	NS	NS	NS	NS	<b>10.0 J</b>	NS	<b>7.17</b>	NS	NS	NS
Methoxychlor	800	340000	10000000	<9.89 U	NS	NS	NS	NS	NS	NS	<8.96 UJ	NS	<9.23 U	NS	NS	NS
Total Chlordanes	66	490	2200	<b>14.53</b>	NS	NS	NS	NS	NS	NS	<b>20.2</b>	NS	<b>15.27</b>	NS	NS	NS
Total DDx	NE	NE	NE	<b>6.4</b>	NS	NS	NS	NS	NS	NS	<b>5.67</b>	NS	<9.23	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

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Orange highlighted cells exceed the 20x rule for GA\_PMC.

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NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 V16-SB34 2-3 V16-SB34 2-3 8/10/2011 SB33209	AOC-1 V16-SB34 3-4 V16-SB34 3-4 8/10/2011 SB33209	AOC-1 V16-SB34 4-4.6 V16-SB34 4-4.6 8/10/2011 SB33209	AOC-1 V16-SB34 6-7 V16-SB34 6-7 8/10/2011 SB33209	AOC-1 V16-SB34 7-8 V16-SB34 7-8 8/10/2011 SB33209	AOC-1 V16-SB34 8-8.5 V16-SB34 8-8.5 8/10/2011 SB33209	AOC-1 V16-SS54 0-0.5 V16-SS54-080411 8/4/2011 SB32875	AOC-1 V16-SS54 0-0.5 V16-SS54-080511 8/5/2011 SB32945	AOC-1 V17-SS55 0-0.25 V17-SS55 0-3 8/11/2011 SB33374	AOC-1 V17-SS55 0-0.5 V17-SS55-080411 8/4/2011 SB32875	AOC-1 V18-SB380 1-1.5 MW-V18-SB380 (1-1.5)- 062512-1 6/25/2012 SB51792	AOC-1 V18-SB380 3-5 MW-V18-SB380 (3-5)- 062512-1 6/25/2012 SB51792
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<24.9 U	<22.7 U	<25.9 U	<22.1 U	NS	<45.3 U	<20.1 U	<20.0 U	<19.8 U	<20.4 U	<21.7 U	<22.9 U
Aroclor 1248	NE	NE	NE	<b>1470</b>	<b>34500</b>	<25.9 U	<22.1 U	NS	<45.3 U	<b>1170</b>	<b>961</b>	<19.8 U	<b>107</b>	<b>538</b>	<b>17600</b>
Aroclor 1254	NE	NE	NE	<24.9 U	<22.7 U	<25.9 U	<22.1 U	NS	<45.3 U	<20.1 U	<20.0 U	<19.8 U	<20.4 U	<21.7 U	<22.9 U
Aroclor 1260	NE	NE	NE	<b>72.1</b>	<b>203</b>	<25.9 U	<22.1 U	NS	<45.3 U	<b>46.3 J</b>	<b>40.4</b>	<19.8 U	<20.4 U	<21.7 U	<b>501</b>
Aroclor 1262	NE	NE	NE	<24.9 U	<22.7 U	<25.9 U	<22.1 U	NS	<45.3 U	<20.1 U	<20.0 U	<19.8 U	<20.4 U	<21.7 U	<22.9 U
Total PCB Aroclors	NE	1000	10000	<b>1540</b>	<b>34703</b>	<25.9 U	<22.1 U	NS	<45.3 U	<b>1220</b>	<b>1000</b>	<19.8 U	<b>107</b>	<b>538</b>	<b>18101</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	<0.000276 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	<b>0.00446 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	<0.000276 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	<b>0.00446</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	<b>39.7</b>	NS	NS	NS	<18.2 U	NS	NS	NS	<8.37 U	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<b>14.5 J</b>	NS	NS	NS	<11.4 U	NS	NS	NS	<5.23 U	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	<b>56.4</b>	NS	NS	NS	<18.2 U	NS	NS	NS	<8.37 U	NS	NS	NS
alpha-Chlordane	NE	NE	NE	<6.28 U	NS	NS	NS	<11.4 U	NS	NS	NS	<5.23 U	NS	NS	NS
Chlordane	NE	490	2200	<25.1 U	NS	NS	NS	<45.6 U	NS	NS	NS	<20.9 U	NS	NS	NS
Dieldrin	7	38	360	<6.28 U	NS	NS	NS	<11.4 U	NS	NS	NS	<5.23 U	NS	NS	NS
Endrin (40)	40	20000	610000	<10.0 U	NS	NS	NS	<18.2 U	NS	NS	NS	<8.37 U	NS	NS	NS
gamma-Chlordane	NE	NE	NE	<6.28 U	NS	NS	NS	<11.4 U	NS	NS	NS	<5.23 U	NS	NS	NS
Methoxychlor	800	340000	10000000	<b>20.2</b>	NS	NS	NS	<18.2 U	NS	NS	NS	<8.37 U	NS	NS	NS
Total Chlordanes	66	490	2200	<6.28 U	NS	NS	NS	<11.4 U	NS	NS	NS	<5.23 U	NS	NS	NS
Total DDx	NE	NE	NE	<b>110.6</b>	NS	NS	NS	<18.2 U	NS	NS	NS	<8.37 U	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 V18-SS56 0-0.5  V18-SS56-080411 8/4/2011 SB32875	AOC-1 V6-SB427 2-3  V6-SB427(2-3)070312-1 7/3/2012 SB52216	AOC-1 V6-SB427 11.5-12  V6-SB427(11.5-12)070312-1 7/3/2012 SB52216	AOC-1 V6-SS222 0-0.25  V6-SS222 0-3 8/12/2011 SB33374	AOC-1 V8-SS215 0-0.25  V8-SS215 0-3 8/12/2011 SB33374	AOC-1 V9A-SB310 2.5-4  V9A-SB310(2.5-4)-021712-1 2/17/2012 SB44128	AOC-1 V9A-SB310 8-10  V9A-SB310(8-10)-021712-1 2/17/2012 SB44128	AOC-1 V9B-SS 0-0.5  V9B-SS-021612-1 2/16/2012 SB44128	AOC-1 V9C-SS 0-0.5  V9C-SS-021612-1 2/16/2012 SB44128	AOC-1 V9D-SS 0-0.5  V9D-SS-021612-1 2/16/2012 SB44128	AOC-1 V9E-SS 0-0.5  V9E-SS-021612-1 2/16/2012 SB44128	AOC-1 V9-SB234 0.5-2.5  V9-SB234 (.50-2.50)-1 12/27/2011 SB41720	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	<36.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	<36.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	<36.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 UJ	<7.3 U	<130 UJ	<108 UJ	<144 UJ	<128 UJ		NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,1,2-Trichloroethane	100	11000	100000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,1-Dichloroethane	1400	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,1-Dichloroethylene	140	1000	9500	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 UJ	<144 UJ	<128 UJ		NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	<89.5 UJ	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	<89.5 U	NS	NS	NS	487	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	<179 U	NS	NS	NS	<135 U	<14.7 U	<260 U	<216 U	<289 U	<255 U		NS
1,2-Dibromoethane	10	7	67	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	<89.5 U	NS	NS	NS	133	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,2-Dichloroethane	20	6700	63000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,2-Dichloropropane	100	9000	84000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	<89.5 U	NS	NS	NS	87.2	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,4-Dichlorobenzene	1500	26000	240000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
1,4-Dioxane	100	6100	57000	NS	<1790 U	NS	NS	NS	<1350 U	<147 U	<2600 U	<2160 UJ	<2890 U	<2550 U		NS
2-Butanone (MEK)	8000	500000	1000000	NS	<895 U	NS	NS	NS	<676 U	<73.4 U	<1300 U	<1080 UJ	<1440 U	<1280 U		NS
Acetone	14000	500000	1000000	NS	<895 U	NS	NS	NS	<676 U	137	<1300 U	<1080 U	<1440 U	<1280 U		NS
Acrylonitrile	10	1100	11000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Benzene	20	21000	200000	NS	<89.5 U	NS	NS	NS	100	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Bromoform	80	78000	720000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Carbon tetrachloride	100	4700	44000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 UJ	<108 UJ	<144 UJ	<128 UJ		NS
Chlorobenzene	2000	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Chloroethane	150	130000	1000000	NS	<179 U	NS	NS	NS	<135 U	<14.7 U	<260 U	<216 UJ	<289 UJ	<255 UJ		NS
Chloroform	120	100000	940000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	<89.5 U	NS	NS	NS	1080	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Dibromochloromethane	10	7300	68000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Ethyl ether	NE	NE	NE	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Ethylbenzene	10100	500000	1000000	NS	<89.5 UJ	NS	NS	NS	144	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Isopropylbenzene	500	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
m,p-Xylenes	NE	NE	NE	NS	<179 U	NS	NS	NS	221	<14.7 U	<260 U	<216 U	<289 U	<255 U		NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	<895 U	NS	NS	NS	<676 U	<73.4 U	<1300 U	<1080 U	<1440 U	<1280 U		NS
Methylene chloride	100	82000	760000	NS	<179 U	NS	NS	NS	<135 U	<14.7 U	<260 U	<216 U	<289 U	<255 U		NS
Naphthalene	5600	1000000	2500000	NS	<89.5 U	NS	NS	NS	155	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
n-Butylbenzene	7000	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 UJ	<130 U	<108 U	<144 U	<128 U		NS
n-Propylbenzene	1000	500000	1000000	NS	<89.5 U	NS	NS	NS	114	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
o-Xylene	NE	NE	NE	NS	<89.5 UJ	NS	NS	NS	72.3	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
p-Isopropyltoluene	NE	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
sec-Butylbenzene	7000	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Styrene	2000	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
tert-butylbenzene	NE	500000	1000000	NS	<89.5 U	NS	NS	NS	<67.6 U	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Tetrachloroethylene	100	12000	110000	NS	<89.5 U	NS	NS	NS	141	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Toluene	20000	500000	1000000	NS	<89.5 U	NS	NS	NS	391	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	<89.5	NS	NS	NS	155	<7.3	<130	<108	<144	<128		NS
Total Xylenes	19500	500000	1000000	NS	<179 U	NS	NS	NS	293	<14.7 U	<260 U	<216 U	<289 U	<255 U		NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	<89.5 U	NS	NS	NS	269	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Trichloroethene	100	56000	520000	NS	<89.5 U	NS	NS	NS	1220	<7.3 U	<130 U	<108 U	<144 U	<128 U		NS
Vinyl chloride	40	320	3000	NS	<89.5 UJ	NS	NS	NS	332	<7.3 U	<130 U	<108 UJ	<144 UJ	<128 UJ		NS





**Soil Analytical Data  
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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.2 U	<25.8 U	<21.2 U	<26.3 U	<24.9 U	NS	NS	NS	NS	NS	NS	NS	<22.1 U
Aroclor 1248	NE	NE	NE	<20.2 U	<25.8 U	<21.2 U	<26.3 U	<24.9 U	NS	NS	NS	NS	NS	NS	NS	<b>163</b>
Aroclor 1254	NE	NE	NE	<20.2 U	<25.8 U	<21.2 U	<26.3 U	<24.9 U	NS	NS	NS	NS	NS	NS	NS	<22.1 U
Aroclor 1260	NE	NE	NE	<20.2 U	<25.8 U	<21.2 U	<26.3 U	<24.9 U	NS	NS	NS	NS	NS	NS	NS	<22.1 U
Aroclor 1262	NE	NE	NE	<20.2 U	<25.8 U	<21.2 U	<26.3 U	<24.9 U	NS	NS	NS	NS	NS	NS	NS	<22.1 U
Total PCB Aroclors	NE	1000	10000	<20.2 U	<25.8 U	<21.2 U	<26.3 U	<24.9 U	NS	NS	NS	NS	NS	NS	NS	<b>163</b>
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<10.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<6.73 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<10.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>13.5 J</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>39</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<6.73 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<10.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>11.3</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<10.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>24.8</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<6.73	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

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NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 V9-SB234 2.5-4.5  V9-SB234 (2.5-4.5)-1 12/27/2011 SB41720	AOC-1 V9-SB234 6-7  V9-SB234 (6-7)-1 12/27/2011 SB41720	AOC-1 W11-SS59 0-0.25  W11-SS59 0-3 8/12/2011 SB33374	AOC-1 W11-SS59 0-0.5  W11-SS59-080411 8/4/2011 SB32875	AOC-1 W12-SS193 0-0.25  W12-SS193 0-3 8/12/2011 SB33374	AOC-1 W13-SS60 0-0.5  W13-SS60-080411 8/4/2011 SB32875	AOC-1 W14-SS61 0-0.5  W14-SS61-080411 8/4/2011 SB32875	AOC-1 W15-SS300 0-0.25  W15SS300 0-3-082311 8/23/2011 SB34022	AOC-1 W15-SS62 0-0.5  W15-SS62-080411 8/4/2011 SB32875	AOC-1 W16-SS63 0-0.5  W16-SS63-080411 8/4/2011 SB32875	AOC-1 W16-SS63 0-0.5  W16-SS63-080511 8/5/2011 SB32945	AOC-1 W20-SB49 0-1  W20-SB49 0-1 8/10/2011 SB33209	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<25.8 U	<21.6 U	<25.0 U	<21.4 U	<25.1 U	<21.1 U	<22.1 U	<25.0 U	<23.1 U	<22.7 U	<21.7 U	<22.1 U	
Aroclor 1248	NE	NE	NE	<b>18200</b>	<21.6 U	<b>53.1</b>	<b>143</b>	<b>180</b>	<b>185</b>	<b>94.7</b>	<25.0 U	<b>101</b>	<b>1370</b>	<b>1220</b>	<22.1 U	
Aroclor 1254	NE	NE	NE	<25.8 U	<21.6 U	<25.0 U	<21.4 U	<25.1 U	<21.1 U	<22.1 U	<25.0 U	<23.1 U	<22.7 U	<21.7 U	<22.1 U	
Aroclor 1260	NE	NE	NE	<b>984</b>	<21.6 U	<25.0 U	<b>29.0 J</b>	<25.1 U	<b>51.1</b>	<22.1 U	<25.0 U	<23.1 U	<b>64.8</b>	<b>34.8</b>	<22.1 U	
Aroclor 1262	NE	NE	NE	<25.8 U	<21.6 U	<25.0 U	<21.4 U	<25.1 U	<21.1 U	<22.1 U	<25.0 U	<23.1 U	<22.7 U	<21.7 U	<22.1 U	
Total PCB Aroclors	NE	1000	10000	<b>19184</b>	<21.6 U	<b>53.1</b>	<b>172</b>	<b>180</b>	<b>236</b>	<b>94.7</b>	<25.0 U	<b>101</b>	<b>1430</b>	<b>1250</b>	<22.1 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	<0.0002 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	<0.0002 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	<0.0002 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	<0.0002 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	<10.2 U	NS	NS	NS	NS	<10.2 U	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	<6.38 U	NS	NS	NS	NS	<6.36 U	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	<10.2 U	NS	NS	NS	NS	<b>17.6</b>	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	<b>31.2 J</b>	NS	NS	NS	NS	<b>131 J</b>	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	<b>96.9</b>	NS	NS	NS	NS	<b>299</b>	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	<6.38 U	NS	NS	NS	NS	<6.36 U	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	<10.2 U	NS	NS	NS	NS	<10.2 U	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	<b>19.9</b>	NS	NS	NS	NS	<b>102</b>	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	<10.2 U	NS	NS	NS	NS	<10.2 U	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	<b>51.1</b>	NS	NS	NS	NS	<b>233</b>	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	<6.38	NS	NS	NS	NS	<b>17.6</b>	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Greenwich High School  
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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	48.6	NS	NS	<13.8 U	NS	61.2	NS	349	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	48.6	NS	NS	<13.8 U	NS	61.2	NS	349	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	48.6	NS	NS	<13.8 U	NS	61.2	NS	349	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	2580	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	1580	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	239	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	<183 U	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	103	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	<1830 U	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<914 U	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<914 U	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	276	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<183 U	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	1060	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	230	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	440	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<914 U	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	<183 U	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	188	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	123	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	92.4	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	923	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	188	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	563	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	168	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	1670	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	<91.4 U	NS	NS	NS	NS





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<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<21.9 U	<26.1 U	NS	<25.8 U	NS	<21.2 U	<21.5 U	<21.5 U	<24.0 U	<49.3 U	<22.9 U	<21.2 U
Aroclor 1248	NE	NE	NE	<b>132</b>	<26.1 U	NS	<25.8 U	NS	<21.2 U	<21.5 U	<21.5 U	<b>3850</b>	<49.3 U	<22.9 U	<b>67.6</b>
Aroclor 1254	NE	NE	NE	<21.9 U	<26.1 U	NS	<25.8 U	NS	<21.2 U	<21.5 U	<21.5 U	<24.0 U	<49.3 U	<22.9 U	<21.2 U
Aroclor 1260	NE	NE	NE	<21.9 U	<26.1 U	NS	<25.8 U	NS	<21.2 U	<21.5 U	<21.5 U	<b>209</b>	<49.3 U	<22.9 U	<21.2 U
Aroclor 1262	NE	NE	NE	<21.9 U	<26.1 U	NS	<25.8 U	NS	<21.2 U	<21.5 U	<21.5 U	<24.0 U	<49.3 U	<22.9 U	<21.2 U
Total PCB Aroclors	NE	1000	10000	<b>132</b>	<26.1 U	NS	<25.8 U	NS	<21.2 U	<21.5 U	<21.5 U	<b>4060</b>	<49.3 U	<22.9 U	<b>67.6</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<9.04 U	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<b>9.4</b>	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	<9.04 U	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<5.65 U	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	<22.6 U	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	<5.65 U	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	<9.04 U	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<5.65 U	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	<9.04 U	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	<5.65	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	<b>9.4</b>	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 X10-SS202 0-0.25  X10-SS202 0-3 8/12/2011 SB33374	AOC-1 X11-SS320 0-0.25  X11SS320 0-3 8/31/2011 SB34491	AOC-1 X12-SS192 0-0.25  X12-SS192 0-3 8/12/2011 SB33374	AOC-1 X12-SS321 0-0.25  X12SS321 0-3 8/31/2011 SB34491	AOC-1 X13-SB324 4-4.5  X13-SB324 (4-4.5) 041112- 1 4/11/2012 SB47196	AOC-1 X13-SB324 7.5-8  X13-SB324 (7.5-8) 041112- 1 4/11/2012 SB47196	AOC-1 X13-SB324 12-12.5  X13-SB324 (12-12.5) 041112-1 4/11/2012 SB47196	AOC-1 X13-SB323 0-0.25  X13SS323 0-3 8/31/2011 SB34491	AOC-1 X13-SS64 0-0.25  X13-SS64 0-3 8/12/2011 SB33374	AOC-1 X13-SS64 0-0.5  X13-SS64-080411 8/4/2011 SB32875	AOC-1 X14-SB325 4.5-5  X14-SB325 (4.5-5) 041112- 1 4/11/2012 SB47196	AOC-1 X14-SB325 4.5-5  X14-SB325 (4.5-5) 041112- 2 4/11/2012 SB47196	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	NS	NS	594	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	NS	NS	594	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	594	NS	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	746	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	<213 U	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	125	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	167	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	135	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	<2130 U	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	<1070 U	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	<1070 U	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	151	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	108	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	<213 U	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	260	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	1670	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	286	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	5150	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<1070 U	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	<213 U	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	4370	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	994	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	482	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	686	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	145	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	650	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	4370	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	5840	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	423	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
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Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 X10-SS202 0-0.25 X10-SS202 0-3 8/12/2011 SB33374	AOC-1 X11-SS320 0-0.25 X11SS320 0-3 8/31/2011 SB34491	AOC-1 X12-SS192 0-0.25 X12-SS192 0-3 8/12/2011 SB33374	AOC-1 X12-SS321 0-0.25 X12SS321 0-3 8/31/2011 SB34491	AOC-1 X13-SB324 4-4.5 X13-SB324 (4-4.5) 041112-1 4/11/2012 SB47196	AOC-1 X13-SB324 7.5-8 X13-SB324 (7.5-8) 041112-1 4/11/2012 SB47196	AOC-1 X13-SB324 12-12.5 X13-SB324 (12-12.5) 041112-1 4/11/2012 SB47196	AOC-1 X13-SS323 0-0.25 X13SS323 0-3 8/31/2011 SB34491	AOC-1 X13-SS64 0-0.25 X13-SS64 0-3 8/12/2011 SB33374	AOC-1 X13-SS64 0-0.5 X13-SS64-080411 8/4/2011 SB32875	AOC-1 X14-SB325 4.5-5 X14-SB325 (4.5-5) 041112-1 4/11/2012 SB47196	AOC-1 X14-SB325 4.5-5 X14-SB325 (4.5-5) 041112-2 4/11/2012 SB47196	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<26.4 U	<27.0	<25.4 U	<45.1	<22.1 U	<25.9 U	<25.0 U	<29.2	<29.6 U	<23.2 U	<206 U	<217 U	
Aroclor 1248	NE	NE	NE	<26.4 U	<27.0	<b>295</b>	<45.1	<b>1620</b>	<b>19300</b>	<b>3520</b>	<29.2	<b>76.9</b>	<b>622</b>	<206 U	<217 U	
Aroclor 1254	NE	NE	NE	<26.4 U	<27.0	<25.4 U	<45.1	<22.1 U	<25.9 U	<25.0 U	<29.2	<29.6 U	<23.2 U	<206 U	<217 U	
Aroclor 1260	NE	NE	NE	<26.4 U	<27.0	<25.4 UJ	<45.1	<b>71.7</b>	<b>404</b>	<b>46.5</b>	<29.2	<29.6 U	<b>41.8</b>	<b>98.7 J</b>	<b>48.0 J</b>	
Aroclor 1262	NE	NE	NE	<26.4 U	<27.0	<25.4 U	<45.1	<22.1 U	<25.9 U	<25.0 U	<29.2	<29.6 U	<23.2 U	<20.6 U	<21.7 U	
Total PCB Aroclors	NE	1000	10000	<26.4 U	<27.0 U	<b>295</b>	<45.1 U	<b>1690</b>	<b>19704</b>	<b>3570</b>	<29.2 U	<b>76.9</b>	<b>664</b>	<b>98.7</b>	<b>48</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**  
This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.  
**Bold = Detected above reporting limit**  
**Bold Italics = Not detected value exceeds criteria**  
Orange highlighted cells exceed the 20x rule for GA\_PMC.  
Blue highlighted cells exceed RES DEC.  
Yellow highlighted cells exceed GA\_PMC-SPLP.  
Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.  
GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.  
NE = Criteria has not been established  
NS = Not sampled for this constituent.  
ug/Kg = microgram per kilogram  
mg/Kg = miligram per kilogram  
mg/L = miligram per Liter  
ug/L = microgram per Liter  
*Italics requires CT DEEP approval*  
\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20  
(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l  
# = Criteria based on detection limits  
*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*  
\* = Criteria derived by SPLP only  
\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 X14-SB325 9.5-10 X14-SB325 (9.5-10) 041112-1 4/11/2012 SB47196	AOC-1 X14-SB325 12-12.5 X14-SB325 (12-12.5) 041112-1 4/11/2012 SB47196	AOC-1 X14-SS302 0-0.25 X14SS302 0-3 8/23/2011 SB34022	AOC-1 X14-SS65 0-0.25 X14-SS65 0-3 8/12/2011 SB33374	AOC-1 X14-SS65 0-0.5 X14-SS65-080411 8/4/2011 SB32875	AOC-1 X15-SB326 4.5-5 X15-SB326 (4.5-5) 041112-1 4/11/2012 SB47196	AOC-1 X15-SB326 9.5-10 X15-SB326 (9.5-10) 041112-1 4/11/2012 SB47196	AOC-1 X15-SB326 12-12.5 X15-SB326 (12-12.5) 041112-1 4/11/2012 SB47196	AOC-1 X15-SS301 0-0.25 X15SS301 0-3-082311 8/23/2011 SB34022	AOC-1 X15-SS66 0-0.5 X15-SS66-080411 8/4/2011 SB32875	AOC-1 X15-SS66 0-0.5 X15-SS66-080511 8/5/2011 SB32945	AOC-1 X16-SB327 1.5-2 X16-SB327 (1.5-2) 041112-1 4/11/2012 SB47196	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	786	NS	NS	NS	NS	NS	182	NS	NS	52.8	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	786	NS	NS	NS	NS	NS	182	NS	NS	52.8	NS	NS
Unidentified	NE	NE	NE	NS	786	NS	NS	NS	NS	NS	182	NS	NS	52.8	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	287	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	<146 U	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	183	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	<1460 U	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	<728 U	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	<728 U	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	<146 U	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	985	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	253	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	904	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<728 U	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	<146 U	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	135	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	271	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	107	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	742	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	185	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	135	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	1180	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	1030	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	<72.8 U	NS	NS	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 X14-SB325 9.5-10 X14-SB325 (9.5-10) 041112-1 4/11/2012 SB47196	AOC-1 X14-SB325 12-12.5 X14-SB325 (12-12.5) 041112-1 4/11/2012 SB47196	AOC-1 X14-SS302 0-0.25 X14SS302 0-3 8/23/2011 SB34022	AOC-1 X14-SS65 0-0.25 X14-SS65 0-3 8/12/2011 SB33374	AOC-1 X14-SS65 0-0.5 X14-SS65-080411 8/4/2011 SB32875	AOC-1 X15-SB326 4.5-5 X15-SB326 (4.5-5) 041112-1 4/11/2012 SB47196	AOC-1 X15-SB326 9.5-10 X15-SB326 (9.5-10) 041112-1 4/11/2012 SB47196	AOC-1 X15-SB326 12-12.5 X15-SB326 (12-12.5) 041112-1 4/11/2012 SB47196	AOC-1 X15-SS301 0-0.25 X15SS301 0-3-082311 8/23/2011 SB34022	AOC-1 X15-SS66 0-0.5 X15-SS66-080411 8/4/2011 SB32875	AOC-1 X15-SS66 0-0.5 X15-SS66-080511 8/5/2011 SB32945	AOC-1 X16-SB327 1.5-2 X16-SB327 (1.5-2) 041112-1 4/11/2012 SB47196	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<2390 U	<2420 U	<26.7 U	<29.4 U	<22.9 U	<24.6 U	<21800 U	<2600 U	<23.7 U	<22.1 U	<25.4 U	<22.0 U	
Aroclor 1248	NE	NE	NE	<b>285000</b>	<b>196000</b>	<26.7 U	<29.4 U	<b>1420</b>	<b>374</b>	<b>386000</b>	<b>63500</b>	<23.7 U	<22.1 U	<25.4 U	<b>229</b>	
Aroclor 1254	NE	NE	NE	<2390 U	<2420 U	<26.7 U	<29.4 U	<22.9 U	<246 U	<21800 U	<2600 U	<23.7 U	<22.1 U	<25.4 U	<22.0 U	
Aroclor 1260	NE	NE	NE	<b>5220</b>	<b>2500</b>	<26.7 U	<29.4 U	<b>115</b>	<24.6 U	<21800 U	<2600 U	<23.7 U	<22.1 U	<25.4 U	<22.0 U	
Aroclor 1262	NE	NE	NE	<2390 U	<2420 U	<26.7 U	<29.4 U	<22.9 U	<24.6 U	<21800 U	<2600 U	<23.7 U	<22.1 U	<25.4 U	<22.0 U	
Total PCB Aroclors	NE	1000	10000	<b>290000</b>	<b>199000</b>	<26.7 U	<29.4 U	<b>1540</b>	<b>374</b>	<b>386000</b>	<b>63500</b>	<23.7 U	<22.1 U	<25.4 U	<b>229</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	<12.0 U	NS	NS	NS	NS	NS	NS	<6.93 U	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	<7.49 U	NS	NS	NS	NS	NS	NS	<4.33 U	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	<12.0 U	NS	NS	NS	NS	NS	NS	<6.93 U	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	<b>34.1 J</b>	NS	NS	NS	NS	NS	NS	<b>43.2 J</b>	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	<b>101</b>	NS	NS	NS	NS	NS	NS	<b>213</b>	NS	NS
Dieldrin	7	38	360	NS	NS	NS	<7.49 U	NS	NS	NS	NS	NS	NS	<4.33 U	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	<12.0 U	NS	NS	NS	NS	NS	NS	<6.93 U	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	<b>30</b>	NS	NS	NS	NS	NS	NS	<b>28.5</b>	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	<12.0 U	NS	NS	NS	NS	NS	NS	<6.93 U	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	<b>64.1</b>	NS	NS	NS	NS	NS	NS	<b>71.7</b>	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	<7.49	NS	NS	NS	NS	NS	NS	<6.93	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS

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Blue highlighted cells exceed RES DEC.

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NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 X16-SB327 7-7.5 X16-SB327 (7-7.5) 041112-1 4/11/2012 SB47196	AOC-1 X16-SB327 10.5-11 X16-SB327 (10.5-11) 041112-1 4/11/2012 SB47196	AOC-1 X16-SS67 0-0.5 X16-SS67-080411 8/4/2011 SB32875	AOC-1 X16-SS67 0-0.5 X16-SS67-080511 8/5/2011 SB32945	AOC-1 X17-SB266 2-3 X17-SB266 (2-3)-122811-1 12/28/2011 SB41712	AOC-1 X17-SB266 3-4 X17-SB266 (3-4)-122811-1 12/28/2011 SB41712	AOC-1 X17-SB266 5-6 X17-SB266 (5-6)-122811-1 12/28/2011 SB41712	AOC-1 X18-SB381 3-4 X18-SB381 (3-4)-062512-1 6/25/2012 SB51792	AOC-1 X18-SB381 3-4 X18-SB381 (3-4)-062512-2 6/25/2012 SB51792	AOC-1 X18-SB381 7-9 X18-SB381 (7-9)-062512-1 6/25/2012 SB51792	AOC-1 X18-SB381 7-9 X18-SB381 (7-9)-062512-2 6/25/2012 SB51792	AOC-1 X18-SB381 11-12 X18-SB381 (11-12)- 062512-1 6/25/2012 SB51792	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<2630 U	<35.8 U	<22.6 U	<22.2 U	<21.8 U	<25.5 U	<464 U	<20.5 U	<20.4 U	<22.9 U	<22.0 U	NS	
Aroclor 1248	NE	NE	NE	<b>64900</b>	<b>299</b>	<b>2640</b>	<b>1460</b>	<21.8 U	<25.5 U	<464 U	<b>93.4</b>	<b>71.3</b>	<b>5350</b>	<b>4940</b>	NS	
Aroclor 1254	NE	NE	NE	<2630 U	<358 U	<22.6 U	<22.2 U	<21.8 U	<b>25400 J</b>	<464 U	<20.5 U	<20.4 U	<22.9 U	<22.0 U	NS	
Aroclor 1260	NE	NE	NE	<2630 U	<b>52.4</b>	<b>91.4</b>	<b>55.8</b>	<21.8 U	<b>1830 J</b>	<464 U	<20.5 U	<20.4 U	<22.9 UJ	<b>234 J</b>	NS	
Aroclor 1262	NE	NE	NE	<2630 U	<35.8 U	<22.6 U	<22.2 U	<21.8 U	<25.5 U	<464 U	<20.5 U	<20.4 U	<22.9 U	<22.0 U	NS	
Total PCB Aroclors	NE	1000	10000	<b>64900</b>	<b>351</b>	<b>2730</b>	<b>1520</b>	<21.8 U	<b>27230</b>	<464 U	<b>93.4</b>	<b>71.3</b>	<b>5350</b>	<b>5170</b>	NS	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	<0.000211 U	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	<0.000211 U	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	<0.000211 U	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	<0.000211 U	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 X20-SB400 2-3 Z20-SB400 (2-3)-062712-1 6/27/2012 SB51902	AOC-1 X21-SB57 0-1 X21-SB57 0-1 8/10/2011 SB33209	AOC-1 X21-SB57 1-2 X21-SB57 1-2 8/10/2011 SB33209	AOC-1 X21-SB57 2-2.5 X21-SB57 2-2.5 8/10/2011 SB33209	AOC-1 X8-SS214 0-0.25 X8-SS214 0-3 8/12/2011 SB33374	AOC-1 Y10-SS314 0-0.25 Y10SS314 0-3-082311 8/23/2011 SB34022	AOC-1 Y10-SS319 0-0.25 Y10SS319 0-3 8/31/2011 SB34491	AOC-1 Y11-SS313 0-0.25 Y11SS313 0-3-082311 8/23/2011 SB34022	AOC-1 Y11-SS70 0-0.25 Y11SS70 0-3 8/31/2011 SB34491	AOC-1 Y11-SS70 0-0.5 Y11-SS70-080411 8/4/2011 SB32875	AOC-1 Y12-SB235 0.5-2.5 Y12-SB235 (50-2.50)-1 12/27/2011 SB41720	AOC-1 Y12-SB235 5-6 Y12-SB235 (5-6)-1 12/27/2011 SB41720
<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<46.7 U	<22.6 U	<21.4 U	<22.1 U	<25.7 U	<24.8 U	<29.1	<25.9 U	<27.4	<21.4 U	<22.7 U	<25.9 U
Aroclor 1248	NE	NE	NE	<46.7 U	<b>113</b>	<b>454</b>	<b>515</b>	<25.7 U	<b>956</b>	<29.1	<b>1550</b>	<27.4	<21.4 U	<22.7 U	<b>30900</b>
Aroclor 1254	NE	NE	NE	<23.3 U	<22.6 U	<21.4 U	<22.1 U	<25.7 U	<24.8 U	<29.1	<25.9 U	<27.4	<21.4 U	<22.7 U	<25.9 U
Aroclor 1260	NE	NE	NE	<23.3 U	<22.6 U	<21.4 U	<22.1 U	<25.7 U	<b>69.2</b>	<29.1	<b>75.1</b>	<27.4	<21.4 U	<22.7 U	<b>618</b>
Aroclor 1262	NE	NE	NE	<23.3 U	<22.6 U	<21.4 U	<22.1 U	<25.7 U	<24.8 U	<29.1	<25.9 U	<27.4	<21.4 U	<22.7 U	<25.9 U
Total PCB Aroclors	NE	1000	10000	<46.7 U	<b>113</b>	<b>454</b>	<b>515</b>	<25.7 U	<b>1030</b>	<29.1 U	<b>1630</b>	<27.4 U	<21.4 U	<22.7 U	<b>31518</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	<8.54 U	<8.60 U	<10.5 U	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	<5.34 U	<5.38 U	<6.59 U	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	<8.54 U	<8.60 U	<10.5 U	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	<b>9.53</b>	<b>6.64 J</b>	<b>151 J</b>	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	<b>61.9</b>	<b>156</b>	<b>307</b>	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	<5.34 U	<5.38 U	<6.59 U	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	<8.54 U	<8.60 U	<10.5 U	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	<b>6.74</b>	<5.38 U	<b>90.2</b>	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	<8.54 U	<8.60 U	<10.5 U	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	<b>16.27</b>	<b>6.64</b>	<b>241.2</b>	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	<8.54	<8.60	<6.59	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Y12-SB235 8-10 Y12-SB235 (8-10)-1 12/27/2011 SB41720	AOC-1 Y12-SB235 14-15 Y12-SB235 (14-15)-1 12/27/2011 SB41720	AOC-1 Y12-SS312 0-0.25 Y12SS312 0-3-082311 8/23/2011 SB34022	AOC-1 Y12-SS322 0-0.25 Y12SS322 0-3 8/31/2011 SB34491	AOC-1 Y13-SB315 4.5-5 Y13-SB315 (4.5-5) 040912-1 4/9/2012 SB47196	AOC-1 Y13-SB315 6-7 Y13-SB315 (6-7) 040912-1 4/9/2012 SB47196	AOC-1 Y13-SS308 0-0.25 Y13SS308 0-3-082311 8/23/2011 SB34022	AOC-1 Y13-SS309 0-0.25 Y13SS309 0-3-082311 8/23/2011 SB34022	AOC-1 Y13-SS71 0-0.25 Y13SS71 0-3 8/31/2011 SB34491	AOC-1 Y13-SS71 0-0.5 Y13-SS71-080411 8/4/2011 SB32875	AOC-1 Y14-SB314 4-4.5 Y14-SB314(4-4.5)-040912-1 4/9/2012 SB46946	AOC-1 Y14-SB314 9-10 Y14-SB314(9-10)-040912-1 4/9/2012 SB46946	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<25.8 U	<52.2 U	<24.6 U	<22.7	<21.5 U	<20.9 U	<28.4 U	<26.2 U	<30.3	<23.3 U	<21.2 U	<25.1 U	
Aroclor 1248	NE	NE	NE	<b>89100</b>	<52.2 U	<b>2910</b>	<22.7	<b>1140</b>	<b>552</b>	<b>35</b>	<b>1730</b>	<30.3	<23.3 U	<b>26500</b>	<b>2660</b>	
Aroclor 1254	NE	NE	NE	<25.8 U	<52.2 U	<24.6 U	<22.7	<21.5 U	<20.9 U	<28.4 U	<26.2 U	<30.3	<23.3 U	<21.2 U	<25.1 U	
Aroclor 1260	NE	NE	NE	<b>1010</b>	<52.2 U	<b>147</b>	<22.7	<b>34.3</b>	<b>37.4</b>	<28.4 U	<b>64.3</b>	<30.3	<23.3 U	<b>188</b>	<25.1 U	
Aroclor 1262	NE	NE	NE	<25.8 U	<52.2 U	<24.6 U	<22.7	<21.5 U	<20.9 U	<28.4 U	<26.2 U	<30.3	<23.3 U	<21.2 U	<25.1 U	
Total PCB Aroclors	NE	1000	10000	<b>90110</b>	<52.2 U	<b>3060</b>	<22.7 U	<b>1170</b>	<b>589</b>	<b>35</b>	<b>1790</b>	<30.3 U	<23.3 U	<b>26688</b>	<b>2660</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<11.5 U	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<7.16 U	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	<11.5 U	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<7.16 U	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	<28.6 U	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	<7.16 U	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	<11.5 U	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<7.16 U	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	<11.5 U	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	<7.16	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	<7.16	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.

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**Bold = Detected above reporting limit**

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NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	NS	NS	NS	259	245	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	NS	NS	NS	259	245	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	259	245	NS	NS	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	104	<71.8 U	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	<168 U	<144 U	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	<1680 U	<1440 U	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	<842 U	<718 U	NS	NS	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	<842 U	<718 U	NS	NS	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	<168 U	<144 U	NS	NS	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	151	79	NS	NS	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	133	<71.8 U	NS	NS	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	368 J	159 J	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	<842 U	<718 U	NS	NS	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	<168 U	<144 U	NS	NS	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	141	<71.8 U	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	282	277	NS	NS	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	<84.2	<71.8	NS	NS	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	509	159	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	227 J	<71.8 UJ	NS	NS	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	<84.2 U	<71.8 U	NS	NS	NS	NS	NS	NS





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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<22.5 U	<22.0 U	<26.0 U	<25.0 U	<21.3 U	<24.3 U	<25.3 U	<21.5 U	<24.4 U	<21.9 U	<21.7 U	<21.2 U	
Aroclor 1248	NE	NE	NE	<22.5 U	<b>1530</b>	<b>2010</b>	<b>1650</b>	<b>1100</b>	<b>5020 J</b>	<b>841 J</b>	<b>40300</b>	<b>3610</b>	<b>389</b>	<b>1420</b>	<b>536</b>	
Aroclor 1254	NE	NE	NE	<22.5 U	<22.0 U	<26.0 U	<25.0 U	<21.3 U	<24.3 U	<25.3 U	<21.5 U	<24.4 U	<21.9 U	<21.7 U	<21.2 U	
Aroclor 1260	NE	NE	NE	<22.5 U	<b>45.1</b>	<b>53.3</b>	<b>45</b>	<b>34.5</b>	<b>74.5 J</b>	<b>29.7 J</b>	<b>487</b>	<b>106</b>	<21.9 U	<b>46.7</b>	<21.2 U	
Aroclor 1262	NE	NE	NE	<22.5 U	<22.0 U	<26.0 U	<25.0 U	<21.3 U	<24.3 U	<25.3 U	<21.5 U	<24.4 U	<21.9 U	<21.7 U	<21.2 U	
Total PCB Aroclors	NE	1000	10000	<22.5 U	<b>1580</b>	<b>2060</b>	<b>1700</b>	<b>1130</b>	<b>5094.5</b>	<b>871</b>	<b>40787</b>	<b>3720</b>	<b>389</b>	<b>1470</b>	<b>536</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.92 U
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>6.05</b>
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.92 U
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.58 U
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<22.3 U
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.58 U
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.92 U
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.58 U
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.92 U
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.58 U
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>6.05</b>
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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mg/Kg = miligram per kilogram

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Greenwich High School  
Greenwich, CT**

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<b>VOC-SPLP (ug/L)</b>															
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>															
2-Methylnaphthalene	560	270000	1000000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Acenaphthene	8400	1000000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Acenaphthylene	8400	1000000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 UJ	NS	NS	NS
Anthracene	40000	1000000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Benzo(a)anthracene	1000	1000	7800	<3600 U DL	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Benzo(a)pyrene	1000	1000	1000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Benzo(b)fluoranthene	1000	1000	7800	<3600 U DL	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Benzo(g,h,i)perylene	1000	8400	78000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Benzo(k)fluoranthene	1000	8400	78000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Chrysene	1000	84000	780000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Dibenzo(a,h)anthracene	1000	1000	1000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Fluoranthene	5600	1000000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Fluorene	5600	1000000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	7800	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Naphthalene	5600	1000000	2500000	5930	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Phenanthrene	4000	1000000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Pyrene	4000	1000000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
<b>SVOCS (ug/Kg)</b>															
1,2-Dichlorobenzene	3100	500000	1000000	<7190 U	NS	NS	NS	NS	NS	NS	NS	<745 U	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	<7190 U	NS	NS	NS	NS	NS	NS	NS	<745 U	NS	NS	NS
1-Methylnaphthalene	200	21000	200000	<3600 UJ	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
2,4-Dichlorophenol	1000	200000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
2,4-Dinitrotoluene	200	900	8400	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
2,6-Dinitrotoluene	200	900	8400	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
2-Chlorophenol	1000	340000	2500000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
3,3-Dichlorobenzidine	200	1400	13000	<7190 U	NS	NS	NS	NS	NS	NS	NS	<745 UJ	NS	NS	NS
Benzidine	200	200	200	<7190 UJ	NS	NS	NS	NS	NS	NS	NS	<745 UJ	NS	NS	NS
Bis(2-chloroethyl)ether	1000	1000	5200	<3600 U DL	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Di-n-octyl phthalate	2000	1000000	2500000	<7190 U	NS	NS	NS	NS	NS	NS	NS	<745 UJ	NS	NS	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Y16-SB63 3-3.7  Y16-SB63 3-3.7 8/10/2011 SB33218	AOC-1 Y16-SB63 5-6  Y16-SB63 5-6 8/10/2011 SB33218	AOC-1 Y16-SB63 6-7  Y16-SB63 6-7 8/10/2011 SB33218	AOC-1 Y16-SB63 7-8  Y16-SB63 7-8 8/10/2011 SB33218	AOC-1 Y16-SB63 8-9  Y16-SB63 8-9 8/10/2011 SB33218	AOC-1 Y16-SB63 11-12  Y16-SB63 11-12 8/10/2011 SB33218	AOC-1 Y16-SS74 0-0.5  Y16-SS74-080411 8/4/2011 SB32875	AOC-1 Y19-SB265 3-4  Y19-SB265 (3-4)-122811-1 12/28/2011 SB41712	AOC-1 Y19-SB265 4-5  Y19-SB265 (4-5)-122811-1 12/28/2011 SB41712	AOC-1 Y19-SB265 5-6  Y19-SB265 (5-6)-122811-1 12/28/2011 SB41712	AOC-1 Y21-SB66 0-1  Y21-SB66 0-1 8/10/2011 SB33209	AOC-1 Y21-SB66 1-2  Y21-SB66 1-2 8/10/2011 SB33209
<b>SVOCs (ug/Kg) (cont)</b>															
Hexachlorobenzene	1000	1000	3600	<3600 U DL	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Hexachloroethane	1000	44000	410000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Methanamine, n-methyl-n-nitrosoc	NE	200	360	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
p-Chlororaniline (200)	200	3100	29000	<3600 U	NS	NS	NS	NS	NS	NS	NS	<372 U	NS	NS	NS
Pentachlorophenol	1000	5100	48000	<7190 U DL	NS	NS	NS	NS	NS	NS	NS	<745 U	NS	NS	NS
<b>PAH-SPLP (ug/L)</b>															
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>															
Antimony	NE	27	8200	14.3	<5.59 U	NS	NS	<5.26 U	NS	NS	NS	<5.14 UJ	<7.05 UJ	NS	NS
Arsenic	NE	10	10	15.6	9.98	NS	NS	1.67	NS	NS	NS	5.63 J	22.2 J	NS	NS
Barium	NE	4700	140000	NS	NS	NS	NS	NS	NS	NS	NS	197 J	187 J	NS	NS
Beryllium	NE	2	2	<0.511 U	<0.559 U	NS	NS	<0.526 U	NS	NS	NS	0.837	0.726	NS	NS
Cadmium	NE	34	1000	8.61	4.45	NS	NS	<0.526 U	NS	NS	NS	1.51 J	1.80 J	NS	NS
Chromium	NE	NE	NE	46.1	51	NS	NS	13.5	NS	NS	NS	48.7 J	34.2 J	NS	NS
Copper	NE	2500	76000	1670	265	NS	NS	15.5	NS	NS	NS	63.7 J	97.8 J	NS	NS
Lead	NE	400	1000	2750	1020	NS	NS	11.3	NS	NS	NS	107 J	149 J	NS	NS
Mercury	NE	20	610	0.897	NS	NS	NS	<0.0302 U	NS	NS	NS	<0.970 U	<1.29 U	NS	NS
Nickel	NE	1400	7500	49.6	41.3	NS	NS	12.9	NS	NS	NS	25.3 J	23.7 J	NS	NS
Selenium	NE	340	10000	<2.54 U	<1.68 U	NS	NS	<1.58 U	NS	NS	NS	<1.54 U	<2.12 U	NS	NS
Silver	NE	340	10000	3.49	2.87	NS	NS	<1.58 U	NS	NS	NS	<1.54 UJ	<2.12 UJ	NS	NS
Thallium	NE	5.4	160	6.06	3.44	NS	NS	<3.16 U	NS	NS	NS	<3.13 U	<4.23 U	NS	NS
Vanadium	NE	470	14000	NS	NS	NS	NS	NS	NS	NS	NS	38.5 J	46.1 J	NS	NS
Zinc	NE	20000	610000	2910	1260	NS	NS	24.5	NS	NS	NS	162 J	175 J	NS	NS
<b>Metals-SPLP (mg/L)</b>															
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	0.556	<0.0150 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>															
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	NS	NS	NS	<1.13 UJ	NS	NS	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg)**</b>															
Aroclor 1242	NE	NE	NE	<20.4 U	<22.1 U	<21.4 U	<21.2 U	<21.4 U	<32.7 U	<21.2 U	<21.4 U	<22.5 U	<28.3 U	<22.6 U	<21.4 U
Aroclor 1248	NE	NE	NE	<b>636000</b>	<b>243000</b>	<b>33300</b>	<b>267</b>	<21.4 U	<32.7 U	<b>1690</b>	<21.4 U	<22.5 U	<28.3 U	<b>43.6</b>	<b>178</b>
Aroclor 1254	NE	NE	NE	<20.4 U	<22.1 U	<21.4 U	<21.2 U	<21.4 U	<32.7 U	<21.2 U	<21.4 U	<22.5 U	<28.3 U	<22.6 U	<21.4 U
Aroclor 1260	NE	NE	NE	<40800 U	<b>3050</b>	<b>303</b>	<21.2 U	<21.4 U	<32.7 U	<b>55.1</b>	<21.4 U	<b>36.1</b>	<28.3 U	<22.6 U	<21.4 U
Aroclor 1262	NE	NE	NE	<20.4 U	<22.1 U	<21.4 U	<21.2 U	<21.4 U	<32.7 U	<21.2 U	<21.4 U	<22.5 U	<28.3 U	<22.6 U	<21.4 U
Total PCB Aroclors	NE	1000	10000	<b>636000</b>	<b>246050</b>	<b>33603</b>	<b>267</b>	<21.4 U	<32.7 U	<b>1750</b>	<21.4 U	<b>36.1</b>	<28.3 U	<b>43.6</b>	<b>178</b>
<b>PCBs-SPLP (mg/L)</b>															
Aroclor 1242	NE	NE	NE	NS	<0.000242 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	<b>0.0191</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	<0.000242 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	<b>0.0191</b>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>															
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>															
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>															
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

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Greenwich High School  
Greenwich, CT**

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<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	240	<15.0 U	NS	NS	522	NS	NS	NS	662	NS	NS	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	240	<15.0 U	NS	NS	522	NS	NS	NS	662	NS	NS	NS	NS
Unidentified	NE	NE	NE	240	<15.0 U	NS	NS	522	NS	NS	NS	662	NS	NS	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	<0.1 U	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	<0.1 U	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	<0.1 U	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 UJ	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	<215 U	NS	NS	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	<2150 U	NS	NS	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<1070 U	NS	NS	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<1070 UJ	NS	NS	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<215 U	NS	NS	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	186	NS	NS	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<215 U	NS	NS	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<1070 U	NS	NS	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	<215 U	NS	NS	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	121	NS	NS	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<107	NS	NS	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<215 U	NS	NS	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	320	NS	NS	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	<107 U	NS	NS	NS	NS





**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Y21-SB66 2-2.7 Y21-SB66 2-2.7 8/10/2011 SB33209	AOC-1 Y21-SB66 6-7 Y21-SB66 6-7 8/10/2011 SB33209	AOC-1 Y21-SB66 9-10 Y21-SB66 9-10 8/10/2011 SB33209	AOC-1 Y7-SB273 0-1 Y7-SB273(0-1)-122911-1 12/29/2011 SB41766	AOC-1 Y7-SB273 3-5 Y7-SB273(3-5)-122911-1 12/29/2011 SB41766	AOC-1 Y7-SB273 5-6 Y7-SB273(5-6)-122911-1 12/29/2011 SB41766	AOC-1 Y7-SB273 7-8 Y7-SB273(7-8)-122911-1 12/29/2011 SB41766	AOC-1 Y7-SS68 0-0.5 Y7-SS68-080411 8/4/2011 SB32875	AOC-1 Y9-SB359 2-3 Y9-SB359 (2-3)-041112-1 4/11/2012 SB47192	AOC-1 Y9-SB359 3.5-4 Y9-SB359 (3.5-4)-041112-1 4/11/2012 SB47192	AOC-1 Y9-SS315 0-0.25 Y9SS315 0-3-082311 8/23/2011 SB34022	AOC-1 Y9-SS69 0-0.25 Y9SS69 0-3 8/31/2011 SB34491	
<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<24.4 U	NS	<21.3 U	NS	<25.0 U	<24.5 U	NS	<21.9 U	<631 U	<41.2 U	<26.8 U	<27.0	
Aroclor 1248	NE	NE	NE	<24.4 U	NS	<21.3 U	NS	<b>3240</b>	<b>1050</b>	NS	<b>200</b>	<631 U	<41.2 U	<b>225</b>	<27.0	
Aroclor 1254	NE	NE	NE	<24.4 U	NS	<21.3 U	NS	<25.0 U	<24.5 U	NS	<21.9 U	<631 U	<41.2 U	<26.8 U	<27.0	
Aroclor 1260	NE	NE	NE	<24.4 U	NS	<21.3 U	NS	<b>106</b>	<b>42.9</b>	NS	<21.9 U	<126 U	<20.6 U	<26.8 U	<27.0	
Aroclor 1262	NE	NE	NE	<24.4 U	NS	<21.3 U	NS	<25.0 U	<24.5 U	NS	<21.9 U	<126 U	<20.6 U	<26.8 U	<27.0	
Total PCB Aroclors	NE	1000	10000	<24.4 U	NS	<21.3 U	NS	<b>3350</b>	<b>1090</b>	NS	<b>200</b>	<631 U	<41.2 U	<b>225</b>	<27.0 U	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	<0.000200 U	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	<0.000200 U	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	<0.000200 U	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	<0.000200 U	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	<b>65.8</b>	<9.07 U	NS	<8.97 U	NS	NS	NS	NS	NS	NS	<10.7 U	NS	NS
4,4-DDE (p,p)	NE	NE	NE	<b>30.6</b>	<5.67 U	NS	<5.61 U	NS	NS	NS	NS	NS	NS	<b>10</b>	NS	NS
4,4-DDT (p,p)	3	1800	17000	<10.2 U	<9.07 U	NS	<8.97 U	NS	NS	NS	NS	NS	NS	<10.7 U	NS	NS
alpha-Chlordane	NE	NE	NE	<b>36.9</b>	<5.67 U	NS	<5.61 U	NS	NS	NS	NS	NS	NS	<b>24.1 J</b>	NS	NS
Chlordane	NE	490	2200	<b>351</b>	<22.7 U	NS	<22.4 U	NS	NS	NS	NS	NS	NS	<b>151</b>	NS	NS
Dieldrin	7	38	360	<6.41 U	<5.67 U	NS	<5.61 U	NS	NS	NS	NS	NS	NS	<6.71 U	NS	NS
Endrin (40)	40	20000	610000	<10.2 U	<9.07 U	NS	<8.97 U	NS	NS	NS	NS	NS	NS	<10.7 U	NS	NS
gamma-Chlordane	NE	NE	NE	<b>24.8 J</b>	<5.67 U	NS	<5.61 U	NS	NS	NS	NS	NS	NS	<b>18.6</b>	NS	NS
Methoxychlor	800	340000	10000000	<10.2 U	<9.07 U	NS	<8.97 U	NS	NS	NS	NS	NS	NS	<10.7 U	NS	NS
Total Chlordanes	66	490	2200	<b>61.7</b>	<5.67	NS	<5.61	NS	NS	NS	NS	NS	NS	<b>42.7</b>	NS	NS
Total DDx	NE	NE	NE	<b>96.4</b>	<9.07	NS	<8.97	NS	NS	NS	NS	NS	NS	<b>10</b>	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Notes:**

This is a summary table. Only detected chemicals are presented.  
<0.010 = Not detected above given laboratory reporting limit.

**Bold = Detected above reporting limit**

**Bold Italics = Not detected value exceeds criteria**

Orange highlighted cells exceed the 20x rule for GA\_PMC.

Blue highlighted cells exceed RES DEC.

Yellow highlighted cells exceed GA\_PMC-SPLP.

Green highlighted cells exceed I/C DEC.

RES DEC = Residential Direct Exposure Criteria.

GA PMC = Pollutant Mobility Criteria for GA-classified groundwater areas.

NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = milligram per kilogram

mg/L = milligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Y9-SS69 0-0.5 Y9-SS69-080411 8/4/2011 SB32875	AOC-1 Z13-SB477 2-3 Z13-SB477 (2-3)/71212-1 7/12/2012 SB52747	AOC-1 Z13-SB477 8-9 Z13-SB477 (8-9)/71212-1 7/12/2012 SB52747	AOC-1 Z13-SB477 12-13 Z13-SB477 (12-13)/71212-1 7/12/2012 SB52747	AOC-1 Z14A-SB313 2.5-3 Z14A-SB313(2.5-3)- 040912-1 4/9/2012 SB46946	AOC-1 Z14A-SB313 5.5-6 Z14A-SB313(5.5-6)- 040912-1 4/9/2012 SB46946	AOC-1 Z14-SB272 0-1 Z14-SB272(0-1)-122911-1 12/29/2011 SB41766	AOC-1 Z14-SB272 9-10 Z14-SB272(9-10)-122911-1 12/29/2011 SB41766	AOC-1 Z14-SB272 11-12 Z14-SB272(11-12)-122911-1 12/29/2011 SB41766	AOC-1 Z15-SB312 4-5.5 Z15-SB312(4-5.5)-040912-1 4/9/2012 SB46946	AOC-1 Z15-SB312 9-10 Z15-SB312(9-10)-040912-1 4/9/2012 SB46946	AOC-1 Z15-SS305 0-0.25 Z15SS305 0-3-082311 8/23/2011 SB34022	
<b>CT-ETPH (mg/Kg)</b>																
Aliphatic Hydrocarbons (ETPH)	500	500	2500	NS	NS	1960	NS	NS	188	NS	NS	996	NS	2970	NS	NS
Total Petroleum Hydrocarbons	500	500	2500	NS	NS	1960	NS	NS	188	NS	NS	996	NS	2970	NS	NS
Unidentified	NE	NE	NE	NS	NS	1960	NS	NS	188	NS	NS	996	NS	2970	NS	NS
<b>CTETPH-SPLP (mg/L)</b>																
Aliphatic Hydrocarbons (ETPH)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Unidentified	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>VOC (ug/Kg)</b>																
1,1,1,2-Tetrachloroethane	20	24000	220000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,1,1-Trichloroethane	4000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	<145 U	NS	NS
1,1,2,2-Tetrachloroethane	10	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,1,2-Trichloroethane	100	11000	100000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,1-Dichloroethane	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,1-Dichloroethylene	140	1000	9500	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	<145 U	NS	NS
1,2,4-Trichlorobenzene	1400	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,2,4-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	483	NS	491	NS	NS
1,2-Dibromo-3-chloropropane	5	90	820	NS	NS	NS	NS	NS	NS	NS	NS	<262 U	NS	<290 U	NS	NS
1,2-Dibromoethane	10	7	67	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,2-Dichloroethane	20	6700	63000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,2-Dichloropropane	100	9000	84000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,3,5-Trimethylbenzene	2800	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,3-Dichlorobenzene	12000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
1,4-Dioxane	100	6100	57000	NS	NS	NS	NS	NS	NS	NS	NS	<2620 U	NS	<2900 U	NS	NS
2-Butanone (MEK)	8000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<1310 U	NS	<1450 U	NS	NS
Acetone	14000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<1310 U	NS	<1450 U	NS	NS
Acrylonitrile	10	1100	11000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
Benzene	20	21000	200000	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	<145 U	NS	NS
Bromoform	80	78000	720000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
Carbon tetrachloride	100	4700	44000	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	<145 U	NS	NS
Chlorobenzene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
Chloroethane	150	130000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<262 UJ	NS	<290 U	NS	NS
Chloroform	120	100000	940000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
cis-1,2-Dichloroethylene	1400	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	205 J-	NS	154	NS	NS
Dibromochloromethane	10	7300	68000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
Ethyl ether	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	<145 U	NS	NS
Ethylbenzene	10100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	336	NS	532	NS	NS
Isopropylbenzene	500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	433	NS	NS
m,p-Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	828	NS	1730	NS	NS
Methyl Isobutyl Ketone	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<1310 U	NS	<1450 U	NS	NS
Methylene chloride	100	82000	760000	NS	NS	NS	NS	NS	NS	NS	NS	<262 UJ	NS	<290 U	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	508	NS	13100	NS	NS
n-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	131	NS	3230	NS	NS
n-Propylbenzene	1000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	656	NS	NS
o-Xylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	340	NS	174	NS	NS
p-Isopropyltoluene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	177	NS	<145 U	NS	NS
sec-Butylbenzene	7000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	916	NS	NS
Styrene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
tert-butylbenzene	NE	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 U	NS	<145 U	NS	NS
Tetrachloroethylene	100	12000	110000	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	<145 U	NS	NS
Toluene	20000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	295	NS	158	NS	NS
Total Low Molecular Weight PAH	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	508	NS	13100	NS	NS
Total Xylenes	19500	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	1170	NS	1900	NS	NS
trans-1,2-Dichloroethylene	2000	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	145	NS	NS
Trichloroethene	100	56000	520000	NS	NS	NS	NS	NS	NS	NS	NS	136	NS	203	NS	NS
Vinyl chloride	40	320	3000	NS	NS	NS	NS	NS	NS	NS	NS	<131 UJ	NS	<145 U	NS	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval  Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Y9-SS69 0-0.5  Y9-SS69-080411 8/4/2011 SB32875	AOC-1 Z13-SB477 2-3  Z13-SB477 (2-3)/71212-1 7/12/2012 SB52747	AOC-1 Z13-SB477 8-9  Z13-SB477 (8-9)/71212-1 7/12/2012 SB52747	AOC-1 Z13-SB477 12-13  Z13-SB477 (12-13)/71212-1 7/12/2012 SB52747	AOC-1 Z14A-SB313 2.5-3  Z14A-SB313(2.5-3)- 040912-1 4/9/2012 SB46946	AOC-1 Z14A-SB313 5.5-6  Z14A-SB313(5.5-6)- 040912-1 4/9/2012 SB46946	AOC-1 Z14-SB272 0-1  Z14-SB272(0-1)-122911-1 12/29/2011 SB41766	AOC-1 Z14-SB272 9-10  Z14-SB272(9-10)-122911-1 12/29/2011 SB41766	AOC-1 Z14-SB272 11-12  Z14-SB272(11-12)-122911-1 12/29/2011 SB41766	AOC-1 Z15-SB312 4-5.5  Z15-SB312(4-5.5)-040912-1 4/9/2012 SB46946	AOC-1 Z15-SB312 9-10  Z15-SB312(9-10)-040912-1 4/9/2012 SB46946	AOC-1 Z15-SS305 0-0.25  Z15SS305 0-3-082311 8/23/2011 SB34022	
<b>VOC-SPLP (ug/L)</b>																
1,1,1,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl Isobutyl Ketone	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PAHs (ug/Kg)</b>																
2-Methylnaphthalene	560	270000	1000000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 U	NS	<2630 U	NS	NS
Acenaphthene	8400	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 U	NS	<2630 U	NS	NS
Acenaphthylene	8400	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 UJ	NS	<2630 U	NS	NS
Anthracene	40000	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 UJ	NS	<2630 U	NS	NS
Benzo(a)anthracene	1000	1000	7800	NS	NS	<2220 U DL	NS	NS	<369 U	NS	NS	788 J-	NS	<2630 U DL	NS	NS
Benzo(a)pyrene	1000	1000	1000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	746 J-	NS	<2630 U	NS	NS
Benzo(b)fluoranthene	1000	1000	7800	NS	NS	<2220 U DL	NS	NS	<369 U	NS	NS	648 J-	NS	<2630 U DL	NS	NS
Benzo(g,h,i)perylene	1000	8400	78000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 UJ	NS	<2630 U	NS	NS
Benzo(k)fluoranthene	1000	8400	78000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	771 J-	NS	<2630 U	NS	NS
Chrysene	1000	84000	780000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	683 J-	NS	<2630 U	NS	NS
Dibenzo(a,h)anthracene	1000	1000	1000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 UJ	NS	<2630 U	NS	NS
Fluoranthene	5600	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	525 J-	NS	<2630 U	NS	NS
Fluorene	5600	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 U	NS	<2630 U	NS	NS
Indeno(1,2,3-cd)pyrene	1000	1000	7800	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 UJ	NS	<2630 U	NS	NS
Naphthalene	5600	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 U	NS	6340	NS	NS
Phenanthrene	4000	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 R	NS	<2630 U	NS	NS
Pyrene	4000	1000000	2500000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	1940 J-	NS	<2630 U	NS	NS
<b>SVOCS (ug/Kg)</b>																
1,2-Dichlorobenzene	3100	500000	1000000	NS	NS	NS	NS	NS	NS	NS	NS	<855 U	NS	NS	NS	NS
1,4-Dichlorobenzene	1500	26000	240000	NS	NS	NS	NS	NS	NS	NS	NS	<855 U	NS	NS	NS	NS
1-Methylnaphthalene	200	21000	200000	NS	NS	<2220 U	NS	NS	<369 U	NS	NS	<428 U	NS	<2630 U	NS	NS
2,4-Dichlorophenol	1000	200000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<428 U	NS	NS	NS	NS
2,4-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	<428 U	NS	NS	NS	NS
2,6-Dinitrotoluene	200	900	8400	NS	NS	NS	NS	NS	NS	NS	NS	<428 UJ	NS	NS	NS	NS
2-Chlorophenol	1000	340000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<428 U	NS	NS	NS	NS
3,3-Dichlorobenzidine	200	1400	13000	NS	NS	NS	NS	NS	NS	NS	NS	<855 UJ	NS	NS	NS	NS
Benzidine	200	200	200	NS	NS	NS	NS	NS	NS	NS	NS	<855 UJ	NS	NS	NS	NS
Bis(2-chloroethyl)ether	1000	1000	5200	NS	NS	NS	NS	NS	NS	NS	NS	<428 UJ	NS	NS	NS	NS
Bis(2-chloroisopropyl)ether	1000	8800	82000	NS	NS	NS	NS	NS	NS	NS	NS	<428 U	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	757 J-	NS	NS	NS	NS
Di-n-octyl phthalate	2000	1000000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	<855 UJ	NS	NS	NS	NS

**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

Area of Concern Location ID Depth Interval Sample ID Sample Date SDG	GA-PMC*	RES DEC	I/C DEC	AOC-1 Y9-SS69 0-0.5 Y9-SS69-080411 8/4/2011 SB32875	AOC-1 Z13-SB477 2-3 Z13-SB477 (2-3)/71212-1 7/12/2012 SB52747	AOC-1 Z13-SB477 8-9 Z13-SB477 (8-9)/71212-1 7/12/2012 SB52747	AOC-1 Z13-SB477 12-13 Z13-SB477 (12-13)/71212-1 7/12/2012 SB52747	AOC-1 Z14A-SB313 2.5-3 Z14A-SB313(2.5-3)- 040912-1 4/9/2012 SB46946	AOC-1 Z14A-SB313 5.5-6 Z14A-SB313(5.5-6)- 040912-1 4/9/2012 SB46946	AOC-1 Z14-SB272 0-1 Z14-SB272(0-1)-122911-1 12/29/2011 SB41766	AOC-1 Z14-SB272 9-10 Z14-SB272(9-10)-122911-1 12/29/2011 SB41766	AOC-1 Z14-SB272 11-12 Z14-SB272(11-12)-122911-1 12/29/2011 SB41766	AOC-1 Z15-SB312 4-5.5 Z15-SB312(4-5.5)-040912-1 4/9/2012 SB46946	AOC-1 Z15-SB312 9-10 Z15-SB312(9-10)-040912-1 4/9/2012 SB46946	AOC-1 Z15-SS305 0-0.25 Z15SS305 0-3-082311 8/23/2011 SB34022	
<b>SVOCs (ug/Kg) (cont)</b>																
Hexachlorobenzene	1000	1000	3600	NS	NS	NS	NS	NS	NS	NS	NS	<428 UJ	NS	NS	NS	NS
Hexachloroethane	1000	44000	410000	NS	NS	NS	NS	NS	NS	NS	NS	<428 UJ	NS	NS	NS	NS
Methanamine, n-methyl-n-nitrosoc	NE	200	360	NS	NS	NS	NS	NS	NS	NS	NS	<428 UJ	NS	NS	NS	NS
N-Nitroso-di-n-propylamine (200)	200	200	820	NS	NS	NS	NS	NS	NS	NS	NS	<428 U	NS	NS	NS	NS
p-Chlororaniline (200)	200	3100	29000	NS	NS	NS	NS	NS	NS	NS	NS	<428 UJ	NS	NS	NS	NS
Pentachlorophenol	1000	5100	48000	NS	NS	NS	NS	NS	NS	NS	NS	<855 R	NS	NS	NS	NS
<b>PAH-SPLP (ug/L)</b>																
1-Methylnaphthalene	200	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalene	560	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	8400	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PAHs	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/Kg) **</b>																
Antimony	NE	27	8200	NS	<5.43 UJ	<6.4 UJ	<14.9 UJ	<5.20 UJ	<5.18 UJ	NS	<11.6 UJ	<6.36 UJ	<5.59 UJ	9.33 J-	NS	NS
Arsenic	NE	10	10	NS	4.61	8.87	<4.47 U	4.71	2.85	NS	20.1	19.1	2.78	<12.0 U	NS	NS
Barium	NE	4700	140000	NS	97.6	839	182	63.5	115	NS	959 J	739 J	101	809	NS	NS
Beryllium	NE	2	2	NS	0.644	<0.644 U	<1.49 U	<0.520 U	<0.518 U	NS	<0.504 U	<0.636 U	<0.559 U	<0.800 U	NS	NS
Cadmium	NE	34	1000	NS	<0.543 U	5.59	<1.49 U	<0.520 U	0.659	NS	12.6	3.95	<0.559 U	10.8	NS	NS
Chromium	NE	NE	NE	NS	28	98.2	21	17.4	32.3	NS	145 J	57.8 J	23.2	79.5	NS	NS
Copper	NE	2500	76000	NS	25.6	566	19.6	16.0 J	39.9 J	NS	520 J-	593 J-	28.9 J	474 J	NS	NS
Lead	NE	400	1000	NS	47.5 J	4320 J	7.00 J	21.8 J	84.0 J	NS	1770	1450	64.3 J	877 J	NS	NS
Mercury	NE	20	610	NS	0.0732	0.976	0.137	0.154 J	0.0952 J	NS	1.92 J	0.558 J	0.123 J	3.20 J	NS	NS
Nickel	NE	1400	7500	NS	14.2 J	265 J	12.2 J	8.94 J	19.0 J	NS	97.9 J	51.1 J	14.8 J	124 J	NS	NS
Selenium	NE	340	10000	NS	<1.63 U	<1.93 U	<4.47 U	<1.56 U	<1.55 U	NS	<2.37 U	<1.91 U	<1.68 U	<2.40 U	NS	NS
Silver	NE	340	10000	NS	<1.63 U	<1.93 U	<4.47 U	<1.56 U	<1.55 U	NS	<6.05 U	<4.96 U	<1.68 U	<12.0 U	NS	NS
Thallium	NE	5.4	160	NS	<3.26 U	<3.86 U	<8.93 U	<3.12 U	<3.11 U	NS	<3.02 U	<3.82 U	<3.35 U	<4.80 U	NS	NS
Vanadium	NE	470	14000	NS	30	123	20.5	20.4	27.6	NS	45.2	42.8	24.2	60.6	NS	NS
Zinc	NE	20000	610000	NS	63.2	2340	9.13	34.6 J	111 J	NS	1600 JEB	3170 JEB	117 J	18400 J	NS	NS
<b>Metals-SPLP (mg/L)</b>																
Antimony	0.006	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Cyanide (mg/Kg)</b>																
Cyanide	NE	1400	41000	NS	NS	NS	NS	NS	NS	NS	NS	1.95 J-	NS	NS	NS	NS

**Soil Analytical Data  
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<b>PCBs (ug/Kg)**</b>																
Aroclor 1242	NE	NE	NE	<20.9 U	<20.9 U	<51900 U	<60.1 U	<21.6 U	<20.9 U	NS	<b>344000</b>	<b>1790000</b>	<20.7 U	<31600 U	<26.9 U	
Aroclor 1248	NE	NE	NE	<b>39.3</b>	<b>314</b>	<b>1150000</b>	<b>1420</b>	<21.6 U	<b>39300</b>	NS	<22.0 U	<12900 U	<20.7 U	<b>1890000</b>	<b>368</b>	
Aroclor 1254	NE	NE	NE	<20.9 U	<20.9 U	<51900 U	<60.1 U	<21.6 U	<20.9 U	NS	<22.0 U	<12900 U	<20.7 U	<31600 U	<26.9 U	
Aroclor 1260	NE	NE	NE	<20.9 U	<20.9 U	<51900 U	<60.1 U	<21.6 U	<b>736</b>	NS	<b>1700</b>	<b>18100</b>	<20.7 U	<31600 U	<26.9 U	
Aroclor 1262	NE	NE	NE	<20.9 U	<20.9 U	<51900 U	<60.1 U	<21.6 U	<20.9 U	NS	<22.0 U	<12900 U	<20.7 U	<31600 U	<26.9 U	
Total PCB Aroclors	NE	1000	10000	<b>39.3</b>	<b>314</b>	<b>1150000</b>	<b>1420</b>	<21.6 U	<b>40036</b>	NS	<b>345700</b>	<b>1810000</b>	<20.7 U	<b>1890000</b>	<b>368</b>	
<b>PCBs-SPLP (mg/L)</b>																
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>																
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<9.63 U	NS	NS	NS	NS	NS	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	<6.02 U	NS	NS	NS	NS	NS	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	<9.63 U	NS	NS	NS	NS	NS	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<6.02 U	NS	NS	NS	NS	NS	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	<24.1 U	NS	NS	NS	NS	NS	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	<6.02 U	NS	NS	NS	NS	NS	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	<9.63 U	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	<6.02 U	NS	NS	NS	NS	NS	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	<9.63 U	NS	NS	NS	NS	NS	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	<6.02	NS	NS	NS	NS	NS	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	<9.63	NS	NS	NS	NS	NS	NS
<b>Pesticides-SPLP (ug/L)</b>																
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>																
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS

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RES DEC = Residential Direct Exposure Criteria.

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NE = Criteria has not been established

NS = Not sampled for this constituent..

ug/Kg = microgram per kilogram

mg/Kg = miligram per kilogram

mg/L = miligram per Liter

ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP







**Soil Analytical Data  
Greenwich High School  
Greenwich, CT**

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<b>PCBs (ug/Kg) **</b>														
Aroclor 1242	NE	NE	NE	<22.2 U	<20.3 U	<26.6 U	<22.3 U	<21.4 U	<21.5 U	<21.7 U	NS	<43.3 U	<26.3 U	<24.0
Aroclor 1248	NE	NE	NE	<b>348</b>	<b>16000 PE</b>	<b>96900</b>	<b>102000</b>	<b>421</b>	<21.5 U	<b>44.6</b>	NS	<43.3 U	<26.3 U	<b>597</b>
Aroclor 1254	NE	NE	NE	<22.2 U	<20.3 U	<26.6 U	<22.3 U	<21.4 U	<21.5 U	<21.7 U	NS	<21.6 U	<26.3 U	<24.0
Aroclor 1260	NE	NE	NE	<22.2 U	<b>390</b>	<b>1250</b>	<b>621</b>	<21.4 U	<21.5 U	<21.7 U	NS	<21.6 U	<26.3 U	<24.0
Aroclor 1262	NE	NE	NE	<22.2 U	<20.3 U	<26.6 U	<22.3 U	<21.4 U	<21.5 U	<21.7 U	NS	<21.6 U	<26.3 U	<24.0
Total PCB Aroclors	NE	1000	10000	<b>348</b>	<b>16200</b>	<b>98150</b>	<b>102621</b>	<b>421</b>	<21.5 U	<b>44.6</b>	NS	<43.3 U	<26.3 U	<b>597</b>
<b>PCBs-SPLP (mg/L)</b>														
Aroclor 1242	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total PCB Aroclors	0.0005	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Pesticides (ug/Kg)</b>														
4,4-DDD (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 U	NS
4,4-DDE (p,p)	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.91 U	NS
4,4-DDT (p,p)	3	1800	17000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 U	NS
alpha-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>27.1 J</b>	NS
Chlordane	NE	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>69.3</b>	NS
Dieldrin	7	38	360	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.91 U	NS
Endrin (40)	40	20000	610000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 U	NS
gamma-Chlordane	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>17.1</b>	NS
Methoxychlor	800	340000	10000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	<11.1 U	NS
Total Chlordanes	66	490	2200	NS	NS	NS	NS	NS	NS	NS	NS	NS	<b>44.2</b>	NS
Total DDx	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	<6.91	NS
<b>Pesticides-SPLP (ug/L)</b>														
Chlordane	66	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Herbicides (ug/Kg)</b>														
Herbicides	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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ug/L = microgram per Liter

*Italics requires CT DEEP approval*

\*\* For Inorganics and PCBs the listed GA-PMC for mass analysis is the RSR GAPMC multiplied by 20

(6) Codified criterion for arsenic GWPC is 50 ug/l, but the revised Drinking Water Action Level is 10 ug/l

# = Criteria based on detection limits

*Italicized (g) = Substances and criteria listed in the Comprehensive List of Approved Additional Pollutants.*

\* = Criteria derived by SPLP only

\*\* = Criteria derived by SPLP or TCLP

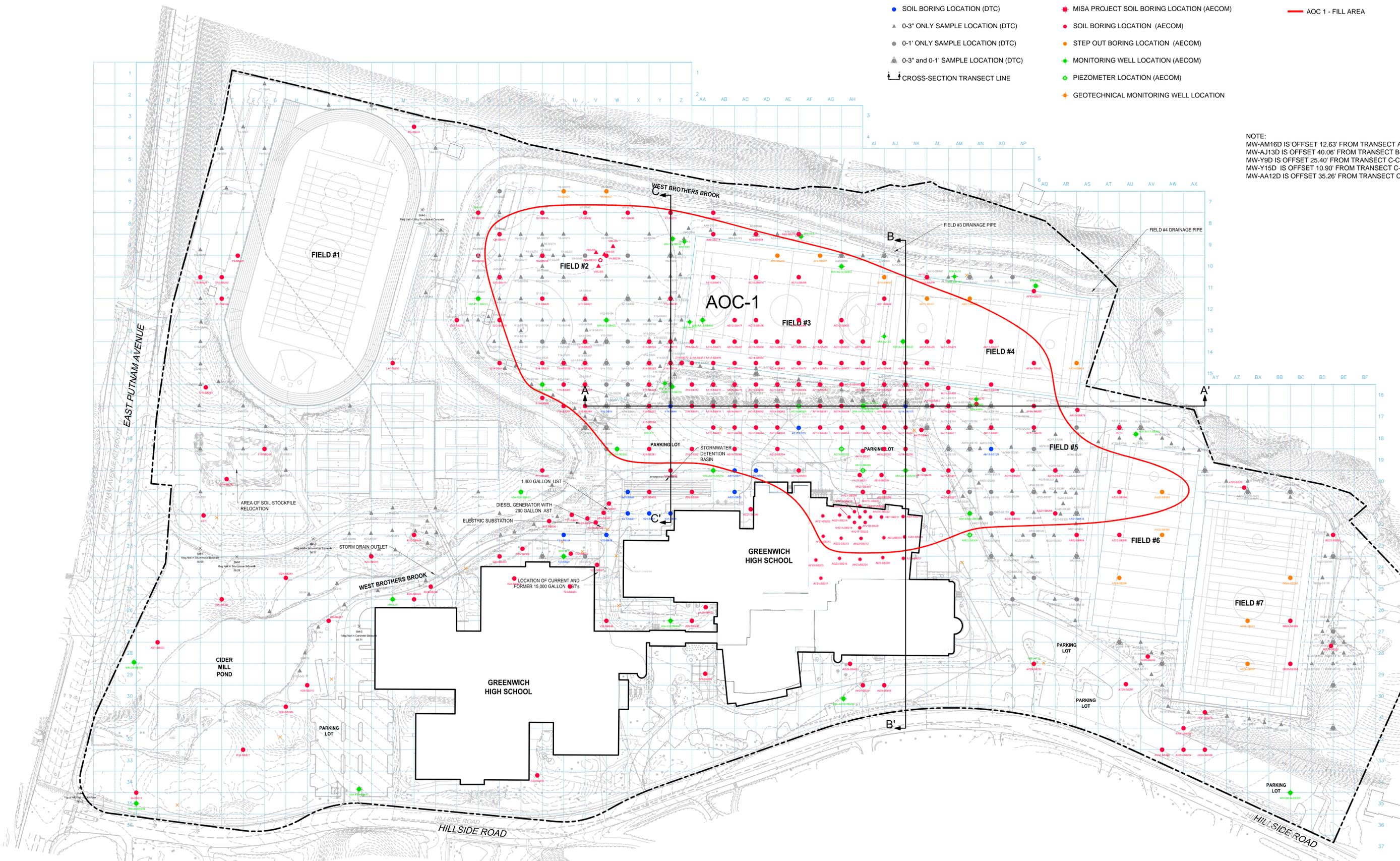
LEGEND

- SOIL BORING LOCATION (DTC)
- ▲ 0-3" ONLY SAMPLE LOCATION (DTC)
- 0-1' ONLY SAMPLE LOCATION (DTC)
- ▲ 0-3" and 0-1' SAMPLE LOCATION (DTC)
- ↔ CROSS-SECTION TRANSECT LINE
- ✦ MISA PROJECT SOIL BORING LOCATION (AECOM)
- SOIL BORING LOCATION (AECOM)
- STEP OUT BORING LOCATION (AECOM)
- MONITORING WELL LOCATION (AECOM)
- PIEZOMETER LOCATION (AECOM)
- GEOTECHNICAL MONITORING WELL LOCATION

AREAS OF CONCERN

— AOC 1 - FILL AREA

NOTE:  
 MW-AM16D IS OFFSET 12.63' FROM TRANSECT A-A'  
 MW-AJ13D IS OFFSET 40.06' FROM TRANSECT B-B'  
 MW-Y9D IS OFFSET 25.40' FROM TRANSECT C-C'  
 MW-Y15D IS OFFSET 10.90' FROM TRANSECT C-C'  
 MW-AA12D IS OFFSET 35.26' FROM TRANSECT C-C'



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 0 80 160 240  
 SCALE FEET  
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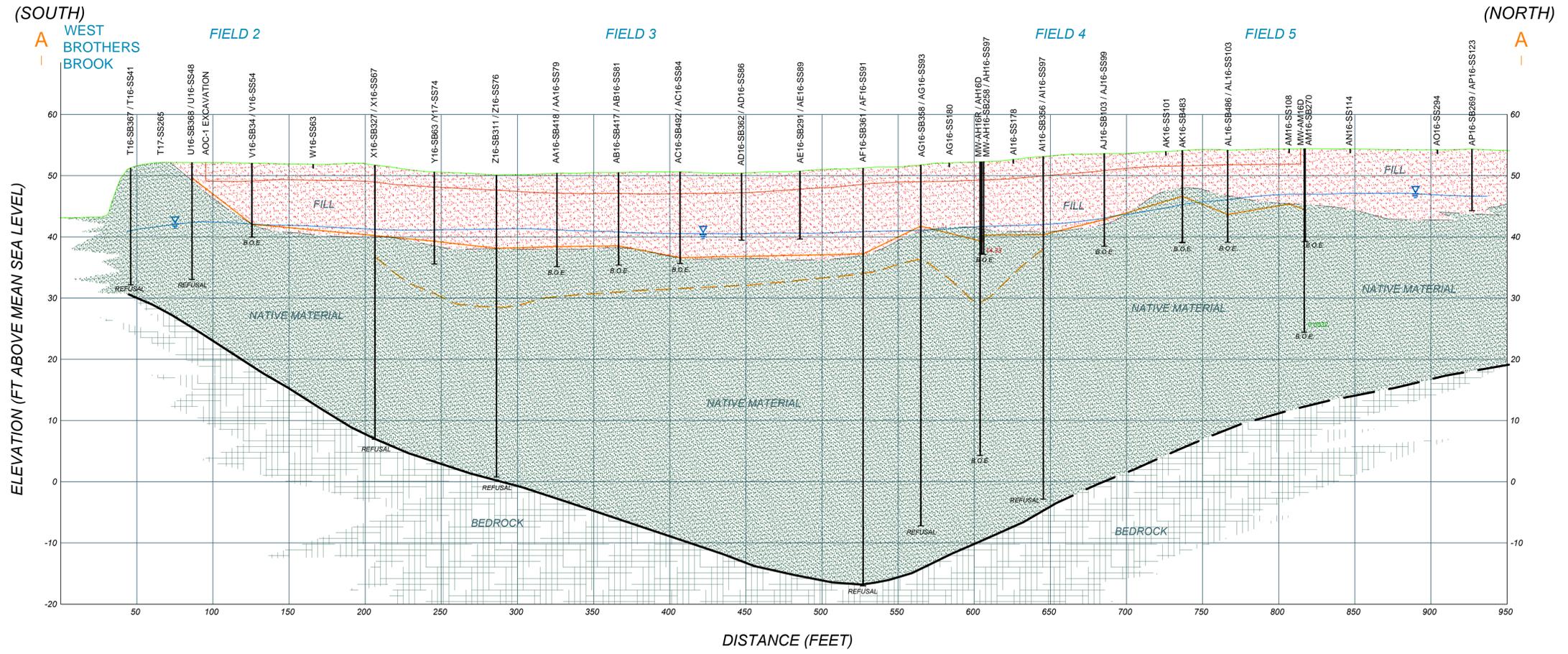
GREENWICH HIGH SCHOOL  
 10 HILLSIDE RD  
 GREENWICH, CT

**FIGURE 3**  
 SITE PLAN WITH CROSS-SECTION LOCATIONS  
 HYDROGEOLOGIC SITE INVESTIGATION

JANUARY 2019

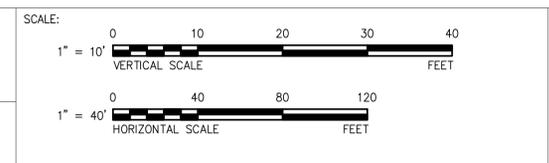
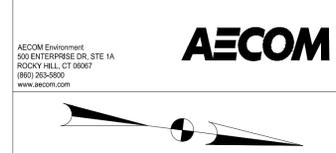
JOB 60432356  
 FILE NO. \_\_\_\_\_  
 CAD FILE CROSS SECTIONS PLAN VEH18  
 SHEET \_\_\_\_\_

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 LAST UPDATE: Thursday, February 07, 2019 2:41:21 PM  
 PLOT DATE: Thursday, February 07, 2019 2:45:29 PM  
 ARCH D - 3-7-05



- NOTES:
- ELEVATIONS SHOWN ARE BASED ON THE 1929 NGVD.
  - GROUNDWATER ELEVATIONS ARE BASED ON THE JULY 23, 2012 GENERALIZED GROUNDWATER CONTOUR MAP.

LEGEND:	
	WATER TABLE
	PEAT MARKER
	PEAT UPPER BOUNDARY
	PEAT LOWER BOUNDARY
	BOTTOM OF EXPLORATION
GROUNDWATER PCB CONCENTRATION (µg/kg) (JUNE 2018)	
	14.338 PCB CONCENTRATION (µg/kg) >0.5
	0.0026 PCB CONCENTRATION (µg/kg) <0.5
	ND PCB NOT DETECTED

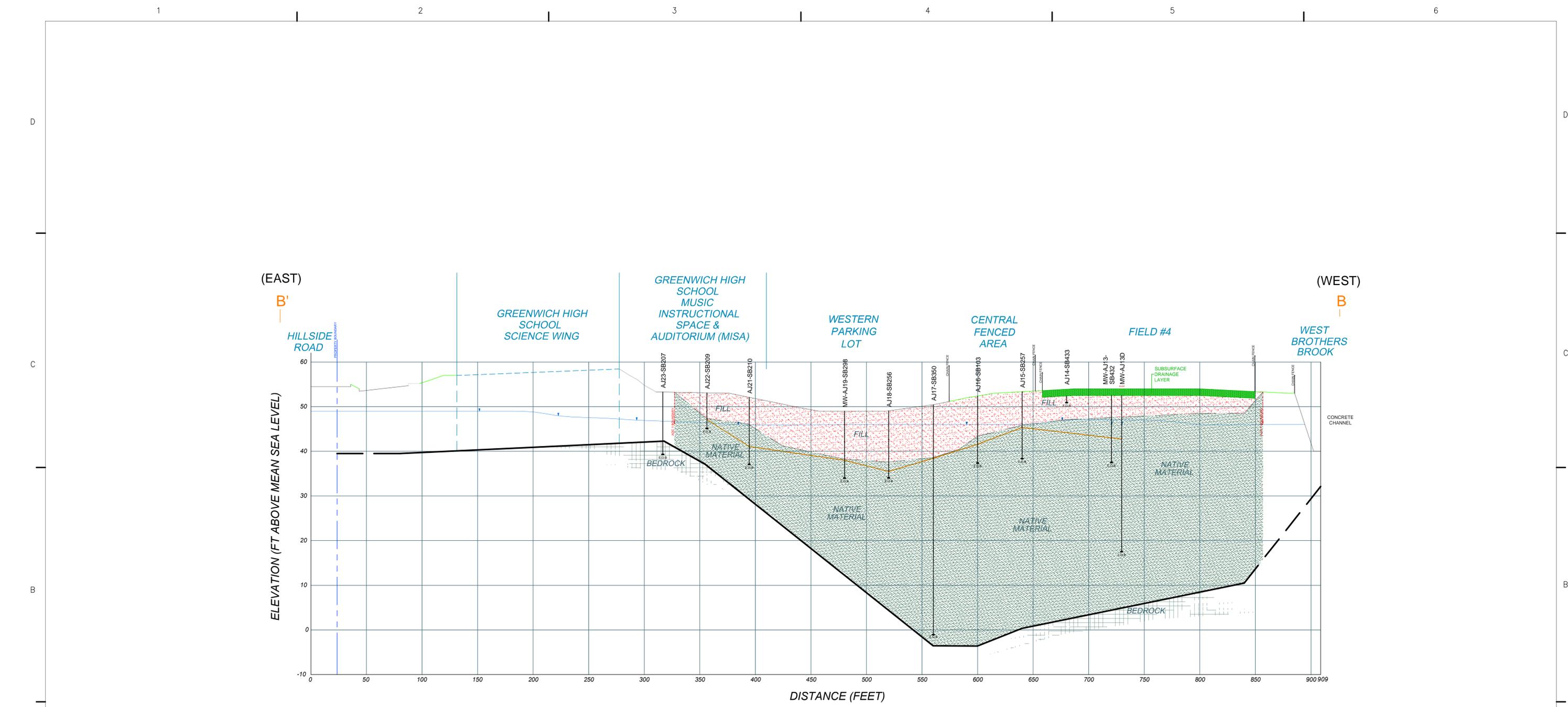


GREENWICH HIGH SCHOOL  
10 HILLSIDE RD  
GREENWICH, CT

**FIGURE 4**  
**CROSS SECTION A - A'**  
**HYDROGEOLOGIC SITE INVESTIGATION**

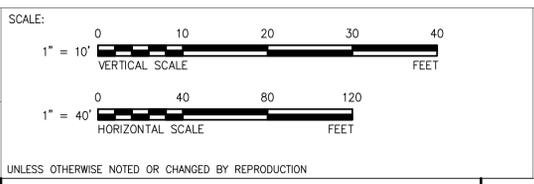
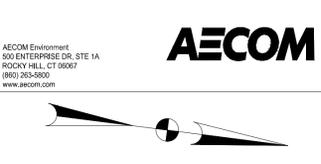
JOB 60432356  
FILE NO.  
CAD FILE CROSS SECTIONS.18  
SHEET

AUGUST 2018



- NOTES:
- ELEVATIONS SHOWN ARE BASED ON THE 1929 NGVD.
  - GROUNDWATER ELEVATIONS ARE BASED ON THE JULY 23, 2012 GENERALIZED GROUNDWATER CONTOUR MAP.

LEGEND:		GROUNDWATER PCB CONCENTRATION ( $\mu\text{g}/\text{kg}$ ) (JUNE 2018)	
	WATER TABLE	<span style="color: red;">14.338</span>	PCB CONCENTRATION ( $\mu\text{g}/\text{kg}$ ) >0.5
	PEAT MARKER	<span style="color: green;">0.0026</span>	PCB CONCENTRATION ( $\mu\text{g}/\text{kg}$ ) <0.5
	PEAT UPPER BOUNDARY	<span style="color: blue;">ND</span>	PCB NOT DETECTED
	PEAT LOWER BOUNDARY		
	B.O.E. BOTTOM OF EXPLORATION		



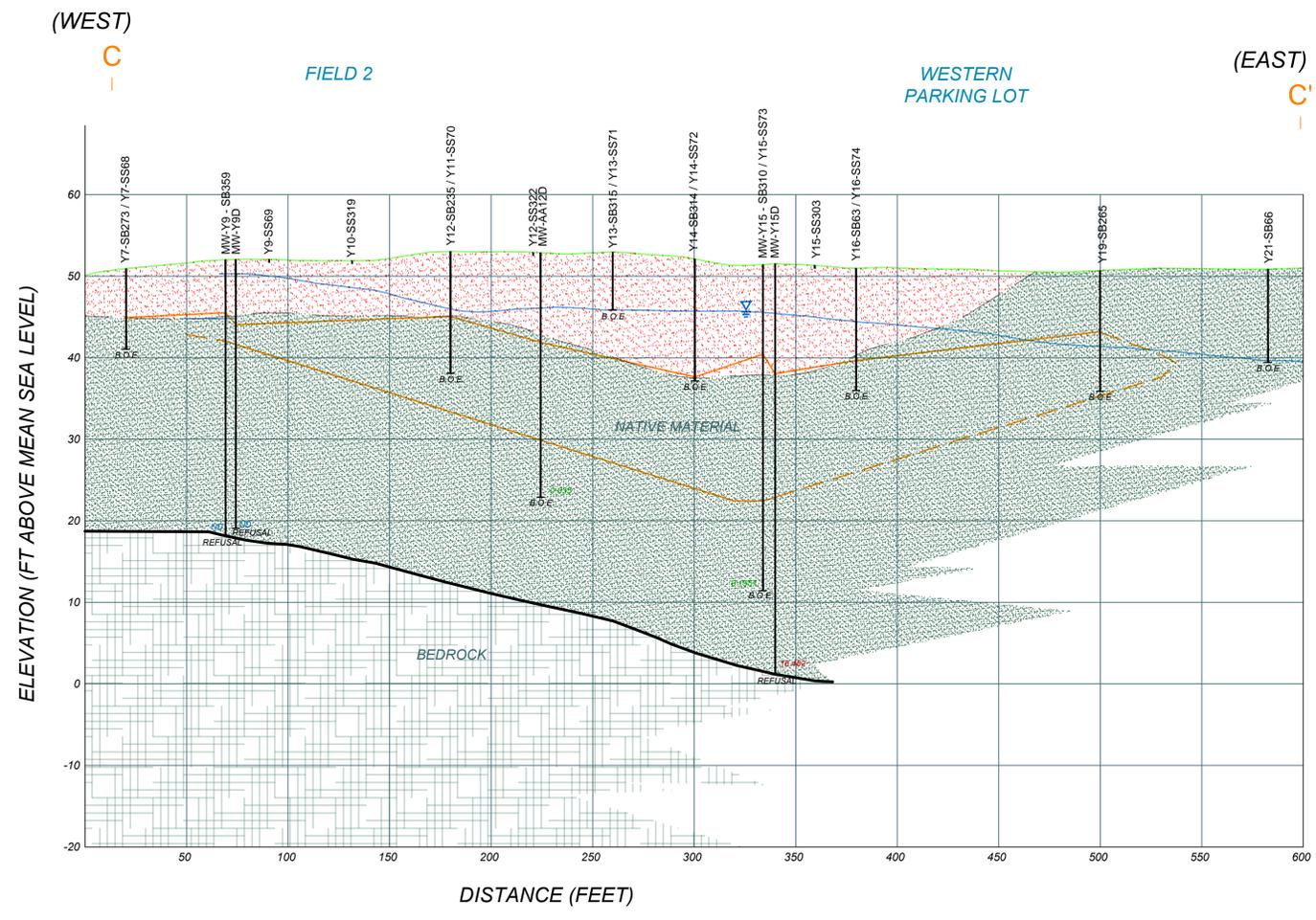
GREENWICH HIGH SCHOOL  
10 HILLSIDE RD  
GREENWICH, CT

**FIGURE 4**  
**CROSS SECTION B - B'**  
**HYDROGEOLOGIC SITE INVESTIGATION**

JOB: 60432356  
FILE NO.:  
CAD FILE: CROSS SECTIONS.18  
SHEET:

AUGUST 2018

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 ARCH D - 3-7-05



- NOTES:
- ELEVATIONS SHOWN ARE BASED ON THE 1929 NGVD.
  - GROUNDWATER ELEVATIONS ARE BASED ON THE JULY 23, 2012 GENERALIZED GROUNDWATER CONTOUR MAP.

LEGEND:		GROUNDWATER PCB CONCENTRATION ( $\mu\text{g}/\text{kg}$ ) (JUNE 2018)	
	WATER TABLE	<span style="color: red;">14.338</span>	PCB CONCENTRATION ( $\mu\text{g}/\text{kg}$ ) >0.5
	PEAT MARKER	<span style="color: green;">0.0026</span>	PCB CONCENTRATION ( $\mu\text{g}/\text{kg}$ ) <0.5
	PEAT UPPER BOUNDARY	<span style="color: blue;">ND</span>	PCB NOT DETECTED
	PEAT LOWER BOUNDARY		
	B.O.E. BOTTOM OF EXPLORATION		

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SCALE:

1" = 10'  
VERTICAL SCALE  
FEET

1" = 40'  
HORIZONTAL SCALE  
FEET

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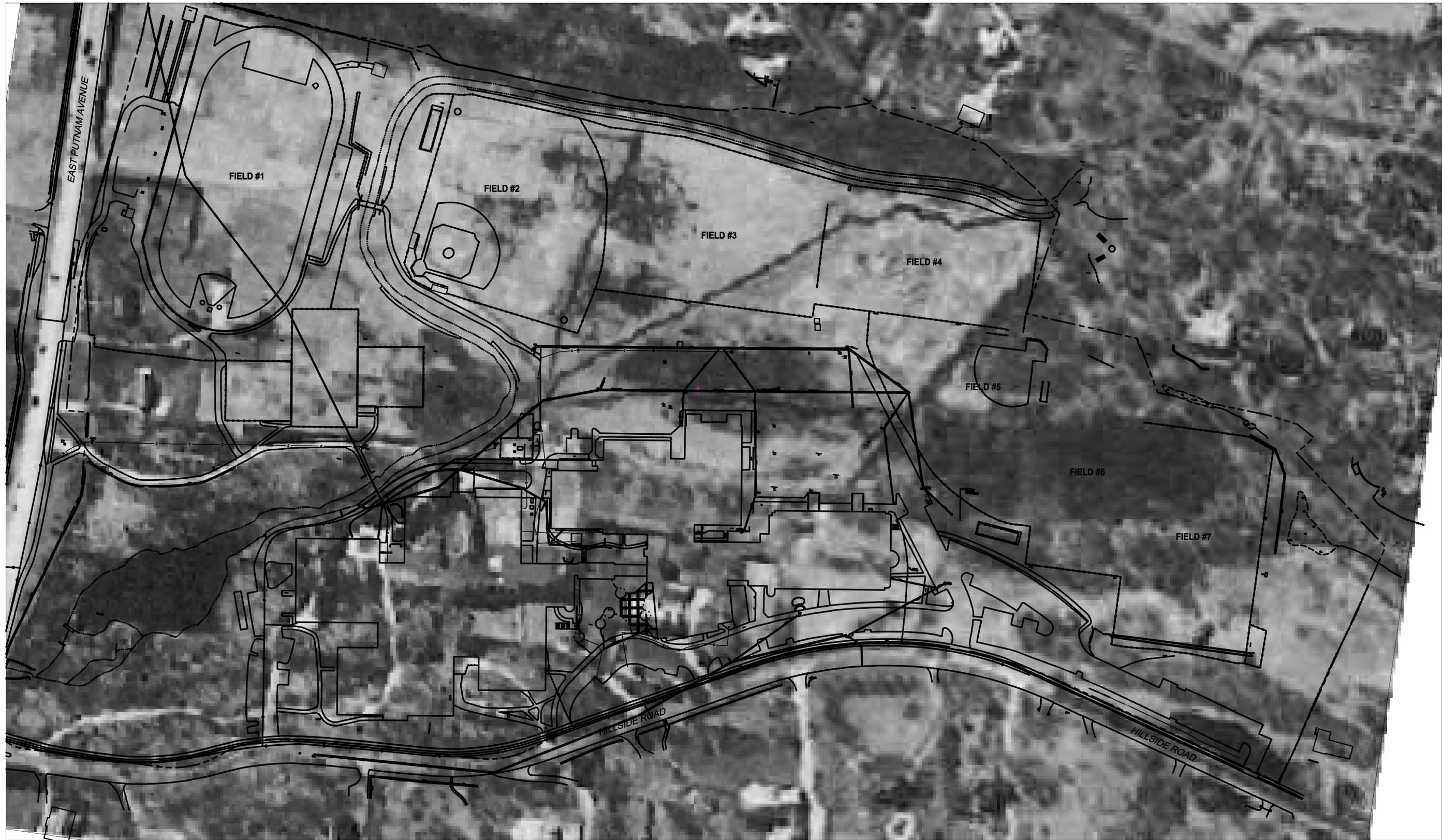
GREENWICH HIGH SCHOOL  
10 HILLSIDE RD  
GREENWICH, CT

**FIGURE 6**  
**CROSS SECTION C - C'**  
**HYDROGEOLOGIC SITE INVESTIGATION**

JOB: 60432356  
FILE NO.:  
CAD FILE: CROSS SECTIONS.18  
SHEET:

AUGUST 2018

ARCH D - 3-7-05  
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PLOT DATE: Monday, October 01, 2018 4:00:37 PM



LAST UPDATE: Tuesday, February 26, 2013 11:06:02 AM  
 PLOT DATE: Tuesday, February 26, 2013 11:06:43 AM  
 ARCH D - 3-7-05

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SCALE:  
 1" = 80'  
 SCALE FEET

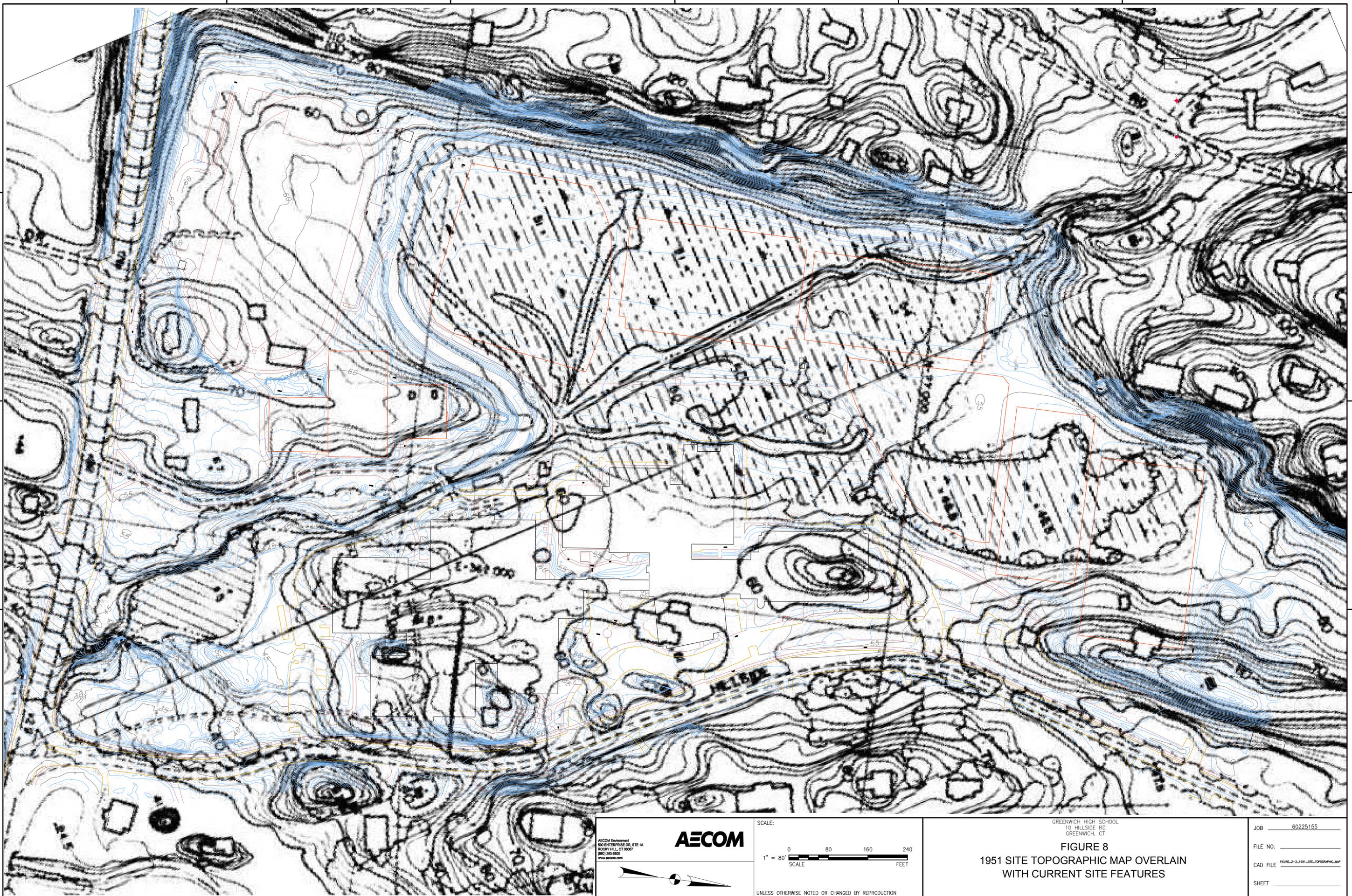
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

GREENWICH HIGH SCHOOL  
 10 HILLSIDE RD  
 GREENWICH, CT

**FIGURE 7**  
 1934 AERIAL MAP  
 HYDROGEOLOGIC INVESTIGATION  
 REPORT

JOB 60225155  
 FILE NO.  
 CAD FILE FIGURE\_3-7-10M\_AERIAL\_PHOTOGRAPHY  
 SHEET

PATH: \\ENRAME\J:\NVDL\_SERVICE\PROJECT FILES\GREENWICH\_HIGH\_SCHOOL\GIS\PROJECTS\FEDERAL\_INVESTIGATIONAL\_REPORT\FIGURE\_2-3\_1951\_SITE\_TOPOGRAPHIC\_MAP.DWG  
LAST UPDATE: Tuesday, February 26, 2013 11:09:13 AM  
PLOT DATE: Tuesday, February 26, 2013 11:09:17 AM  
ARCH D - 3-7-05



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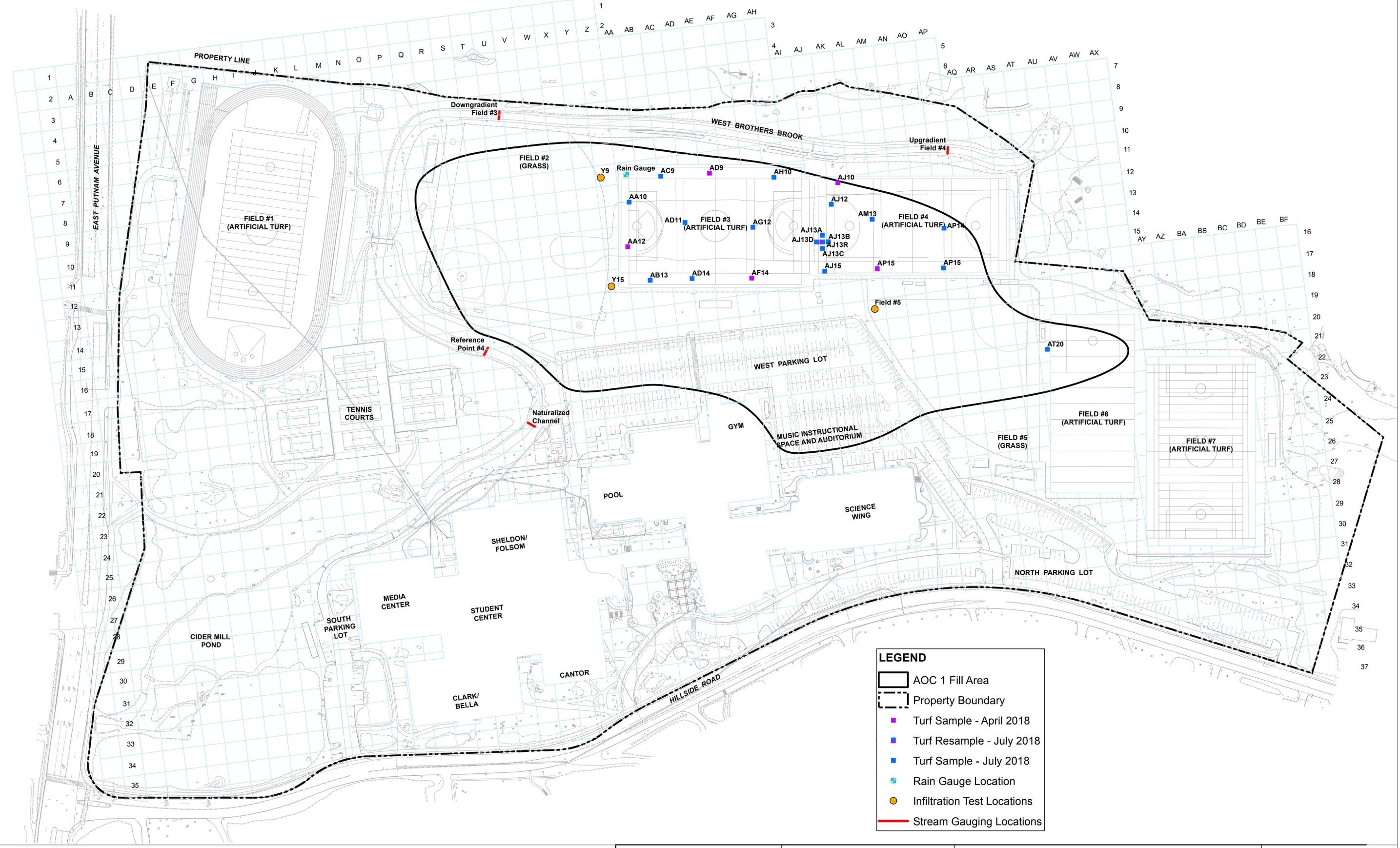
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1" = 80'  
SCALE FEET  
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

GREENWICH HIGH SCHOOL  
10 HILLSIDE RD  
GREENWICH, CT

**FIGURE 8**  
**1951 SITE TOPOGRAPHIC MAP OVERLAIN  
WITH CURRENT SITE FEATURES**

JOB	60225155
FILE NO.	
CAD FILE	FIGURE_2-3_1951_SITE_TOPOGRAPHIC_MAP
SHEET	

Path: X:\60225155\Greenwich High School Remediation\000\Work\GIS\MXD\Agenda\A\_Hydro\WP\_RFC\_GIS Well Network\_2017.mxd



**LEGEND**

- AOC 1 Fill Area
- Property Boundary
- Turf Sample - April 2018
- Turf Resample - July 2018
- Turf Sample - July 2018
- ⊕ Rain Gauge Location
- Infiltration Test Locations
- Stream Gauging Locations

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SCALE:

1" = 80'  
SCALE

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**FIGURE 9**  
**HYDROGEOLOGIC INVESTIGATION LOCATIONS**  
 GREENWICH HIGH SCHOOL  
 10 HILLSIDE ROAD  
 GREENWICH, CT

JOB 60225155

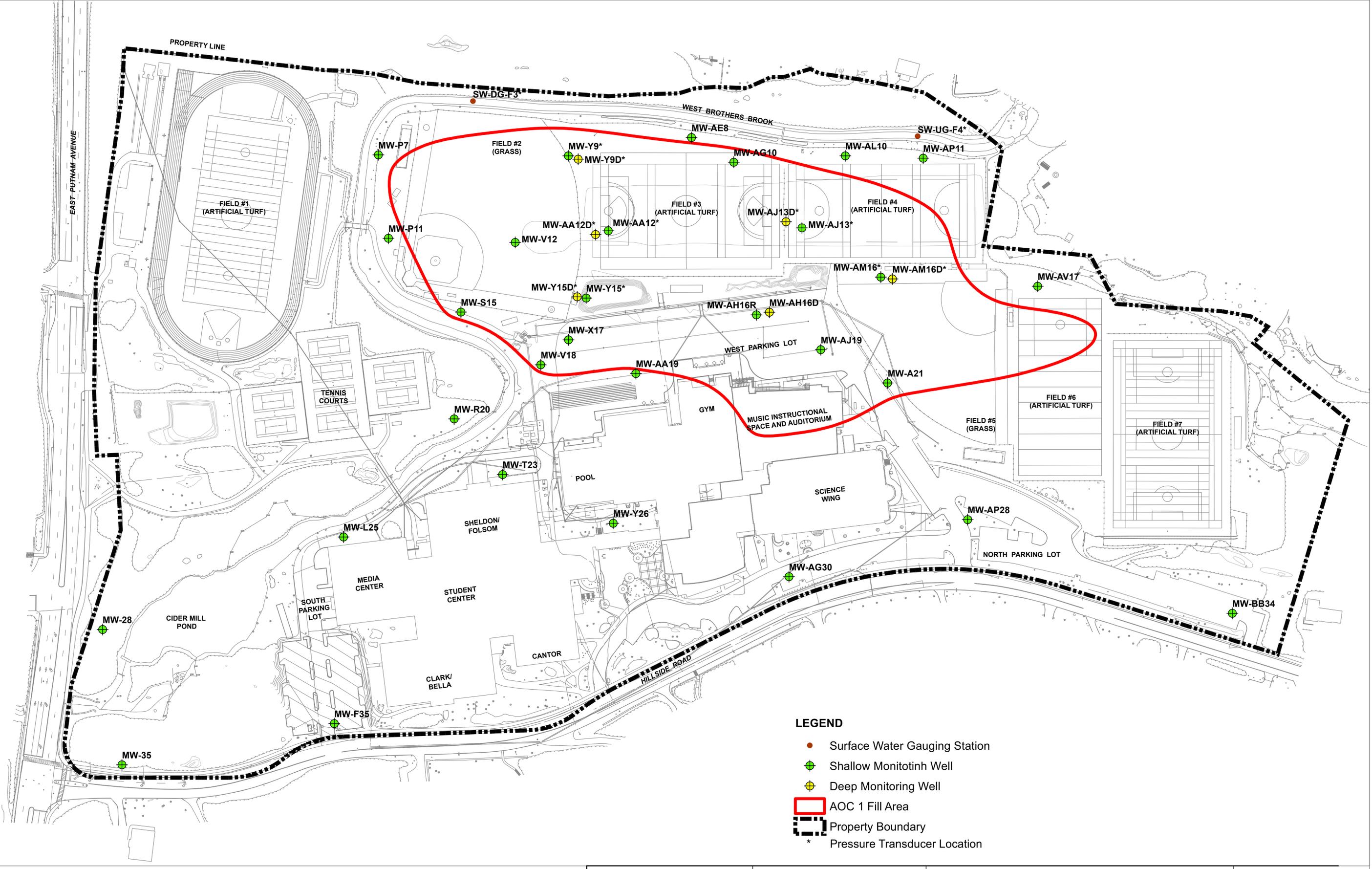
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CAD FILE \_\_\_\_\_

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SOURCE:  
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 DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION

Path: X:\60225155\Greenwich High School Remediation\030\Work\GIS\MW\2018\Figure 10 MW Network.mxd



- LEGEND**
- Surface Water Gauging Station
  - ⊕ Shallow Monitoring Well
  - ⊕ Deep Monitoring Well
  - ▭ AOC 1 Fill Area
  - ⋯ Property Boundary
  - \* Pressure Transducer Location

GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

SOURCE:  
2010 AERIAL ORTHOPHOTO FROM STATE OF CONNECTICUT  
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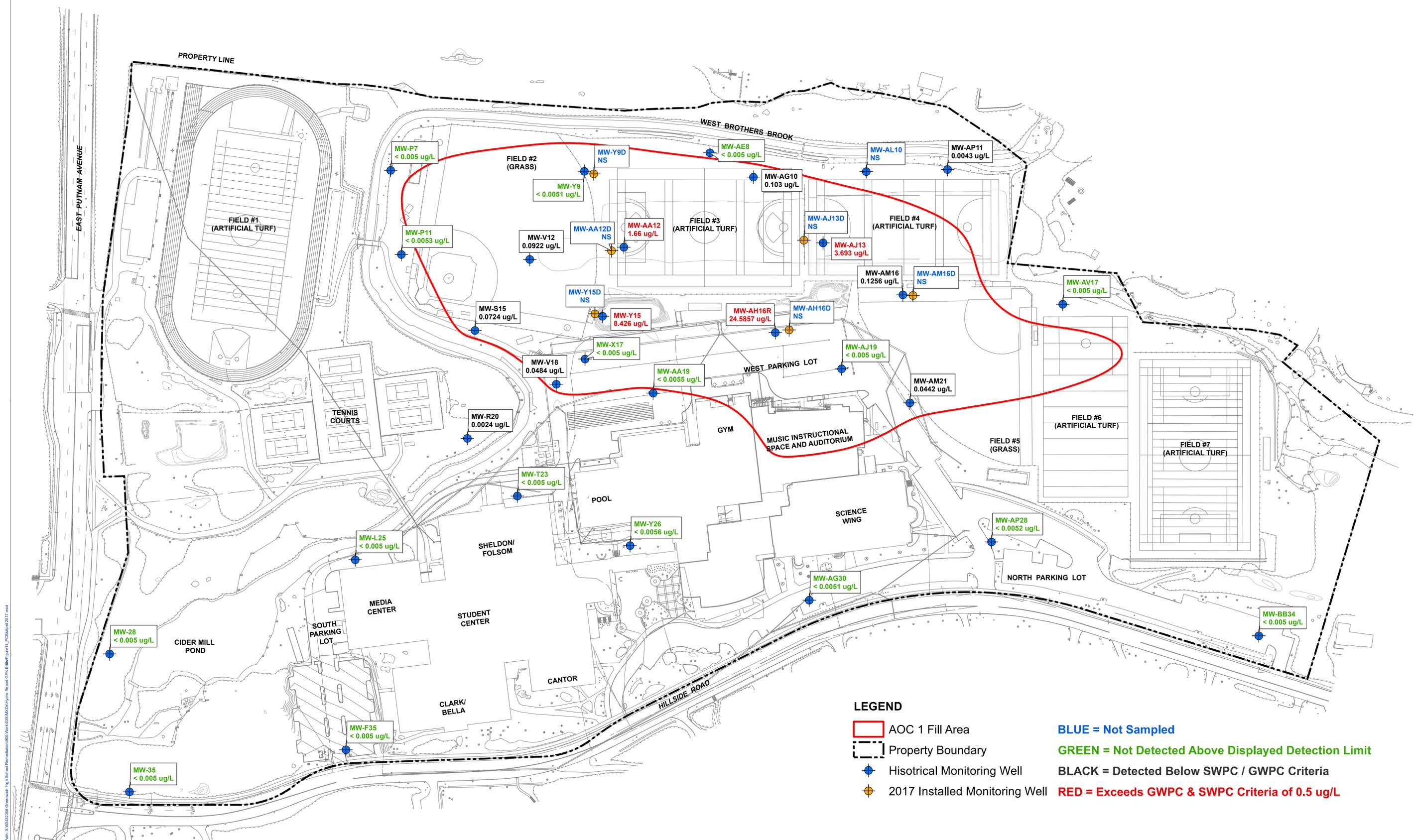
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1" = 80'  
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SCALE

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**FIGURE 10**  
WELL NETWORK 2018

GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

JOB 60225155  
FILE NO.  
CAD FILE  
SHEET



**LEGEND**

- AOC 1 Fill Area
- Property Boundary
- Historical Monitoring Well
- 2017 Installed Monitoring Well
- BLUE = Not Sampled
- GREEN = Not Detected Above Displayed Detection Limit
- BLACK = Detected Below SWPC / GWPC Criteria
- RED = Exceeds GWPC & SWPC Criteria of 0.5 ug/L

Path: X:\60225155\Greenwich High School Remediation\000\Work\GIS\MapDocs\Hydro Report\GPR\Editor\Figure11\_PCBs.aprx 2017.mxd

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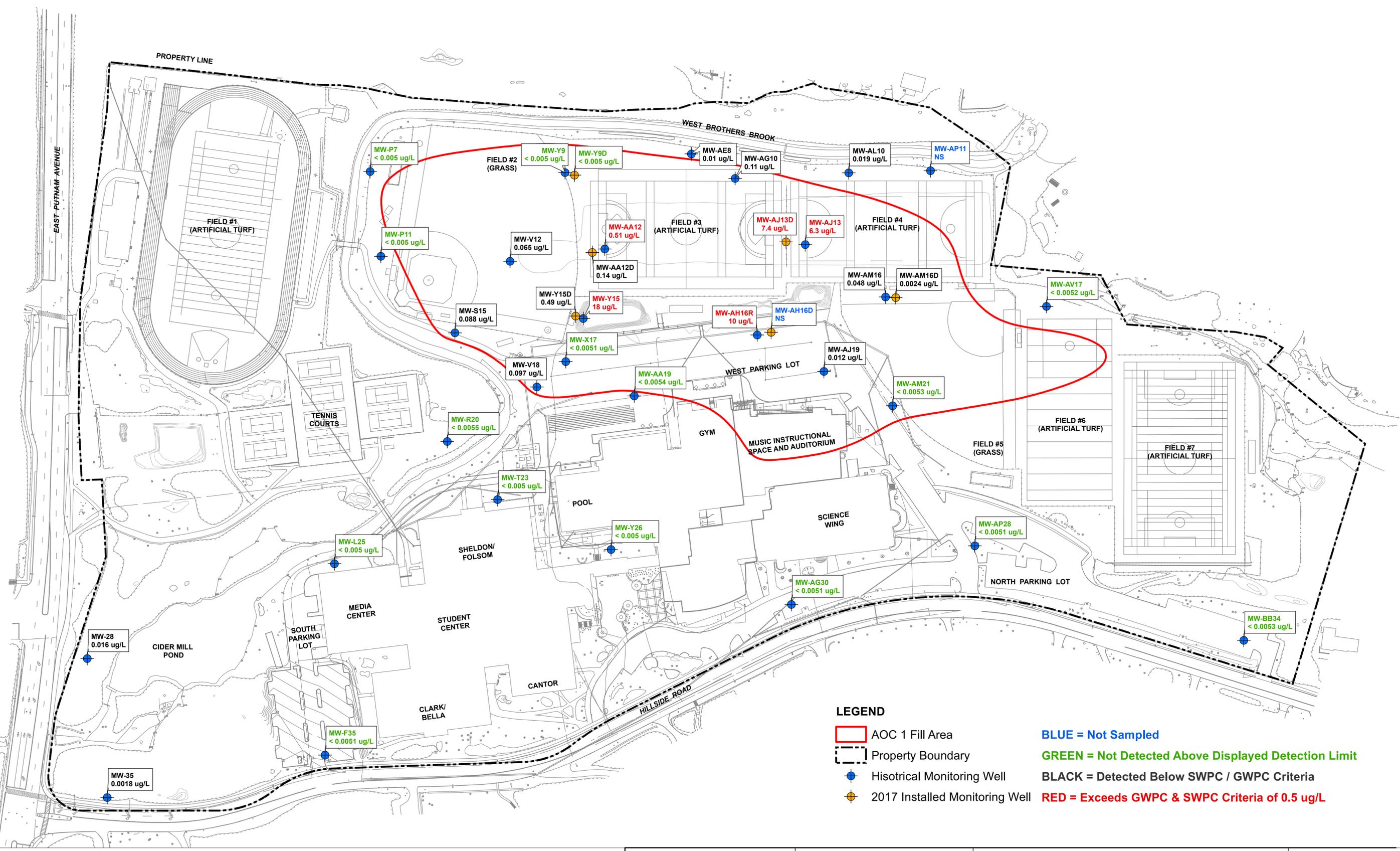
SCALE:  
1" = 80'  
SCALE

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**FIGURE 11**  
PCBs in Groundwater  
April 2017  
GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

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FILE NO. \_\_\_\_\_  
CAD FILE \_\_\_\_\_  
SHEET \_\_\_\_\_

Path: X:\60225155\Greenwich High School Remediation\00\Work\GIS\MapDocs\Hydro Report\GPR\Figures\12\_pcbAugust2017.mxd



**LEGEND**

- AOC 1 Fill Area
- Property Boundary
- Historical Monitoring Well
- 2017 Installed Monitoring Well
- BLUE = Not Sampled
- GREEN = Not Detected Above Displayed Detection Limit
- BLACK = Detected Below SWPC / GWPC Criteria
- RED = Exceeds GWPC & SWPC Criteria of 0.5 ug/L

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SCALE:

1" = 80' SCALE

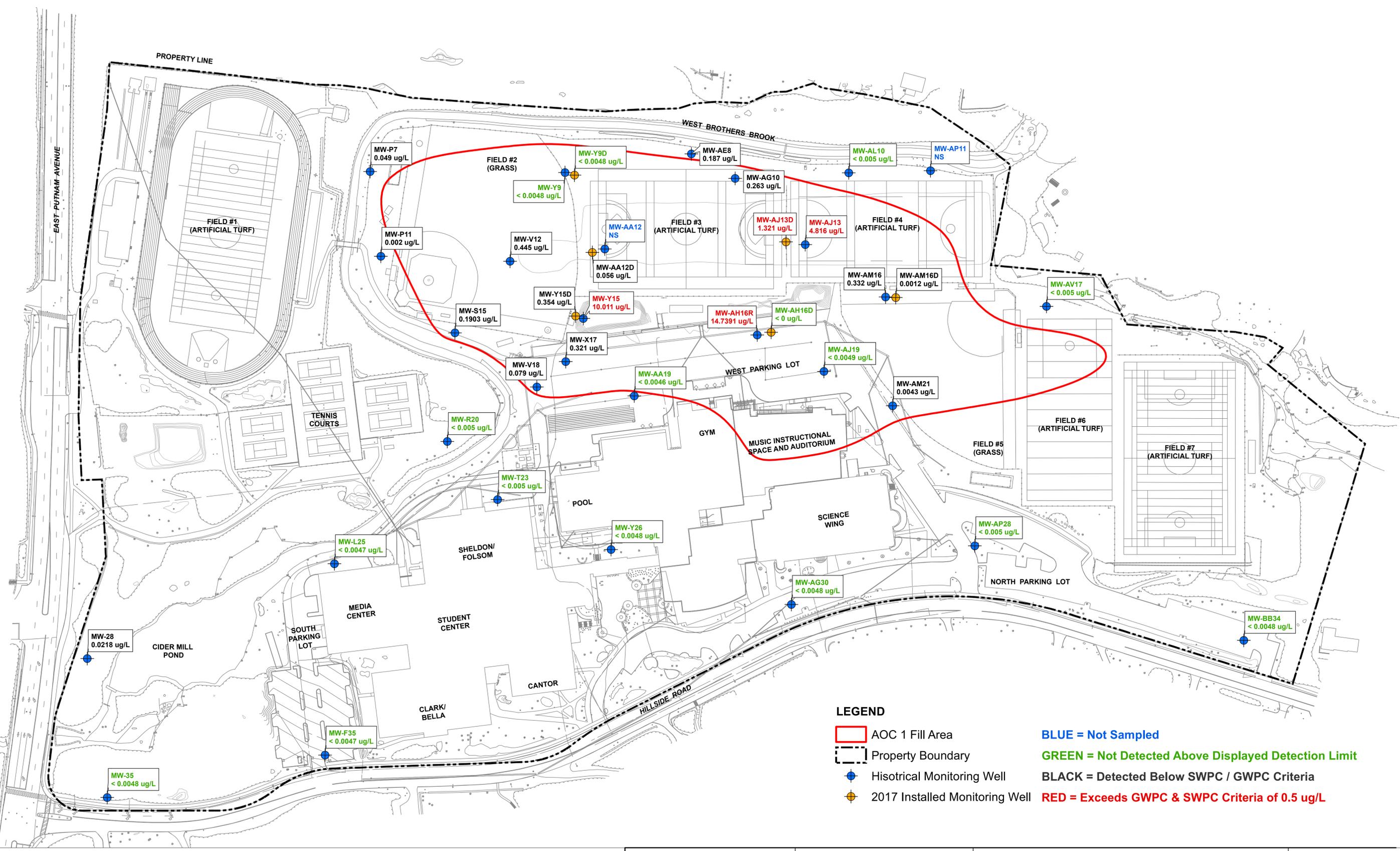
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

**FIGURE 12**  
 PCBs in Groundwater  
 August 2017  
 GREENWICH HIGH SCHOOL  
 10 HILLSIDE ROAD  
 GREENWICH, CT

JOB	60225155
FILE NO.	
CAD FILE	
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SOURCE:  
 2010 AERIAL ORTHOPHOTO FROM STATE OF CONNECTICUT  
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Path: X:\60225155\Greenwich High School Remediation\00\Work\GIS\MCH\Hydro Report\GPK\Editor\Figure 13\_PCBsNov 2017.mxd



**LEGEND**

- AOC 1 Fill Area
- Property Boundary
- Historical Monitoring Well
- 2017 Installed Monitoring Well
- BLUE = Not Sampled
- GREEN = Not Detected Above Displayed Detection Limit
- BLACK = Detected Below SWPC / GWPC Criteria
- RED = Exceeds GWPC & SWPC Criteria of 0.5 ug/L

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SCALE:

1" = 80'  
SCALE

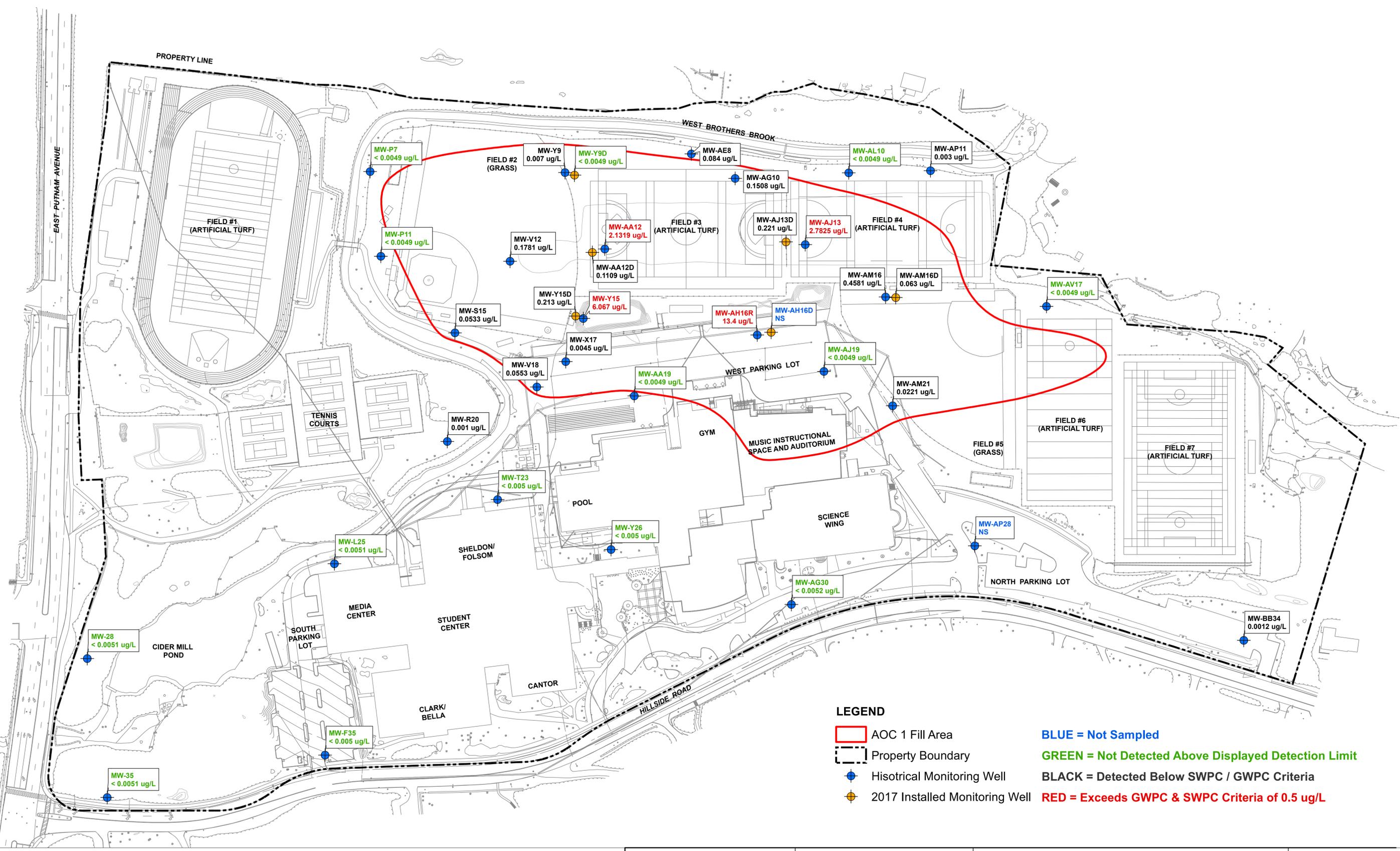
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

**FIGURE 13**  
PCBs in Groundwater  
November 2017  
**GREENWICH HIGH SCHOOL**  
10 HILLSIDE ROAD  
GREENWICH, CT

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CAD FILE \_\_\_\_\_  
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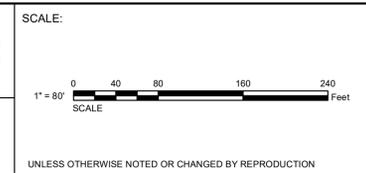


**LEGEND**

- AOC 1 Fill Area
- Property Boundary
- Historical Monitoring Well
- 2017 Installed Monitoring Well
- BLUE = Not Sampled
- GREEN = Not Detected Above Displayed Detection Limit
- BLACK = Detected Below SWPC / GWPC Criteria
- RED = Exceeds GWPC & SWPC Criteria of 0.5 ug/L

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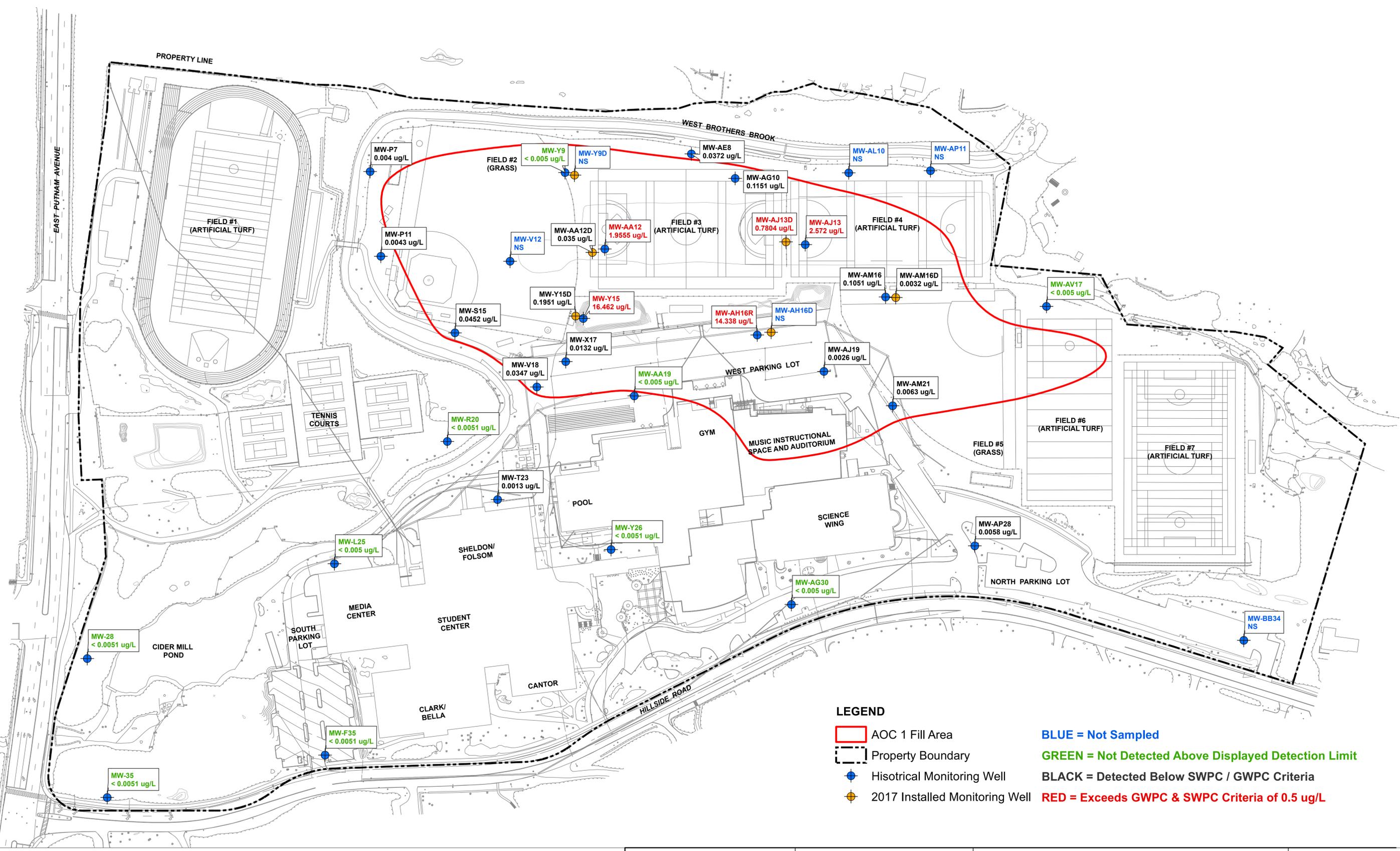


**FIGURE 14**  
PCBs in Groundwater  
June 2018  
GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

JOB 60225155  
FILE NO. \_\_\_\_\_  
CAD FILE \_\_\_\_\_  
SHEET \_\_\_\_\_

SOURCE:  
2010 AERIAL ORTHOPHOTO FROM STATE OF CONNECTICUT  
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Path: X:\60225155\Greenwich High School Remediation\00\Work\GIS\MCH\Hydro Report\GPK\Editor\Figure 15\_PCBsJune 2018.mxd



**LEGEND**

- AOC 1 Fill Area
- Property Boundary
- Historical Monitoring Well
- 2017 Installed Monitoring Well
- BLUE = Not Sampled
- GREEN = Not Detected Above Displayed Detection Limit
- BLACK = Detected Below SWPC / GWPC Criteria
- RED = Exceeds GWPC & SWPC Criteria of 0.5 ug/L

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SCALE:

1" = 80'  
SCALE

0 40 80 160 240 Feet

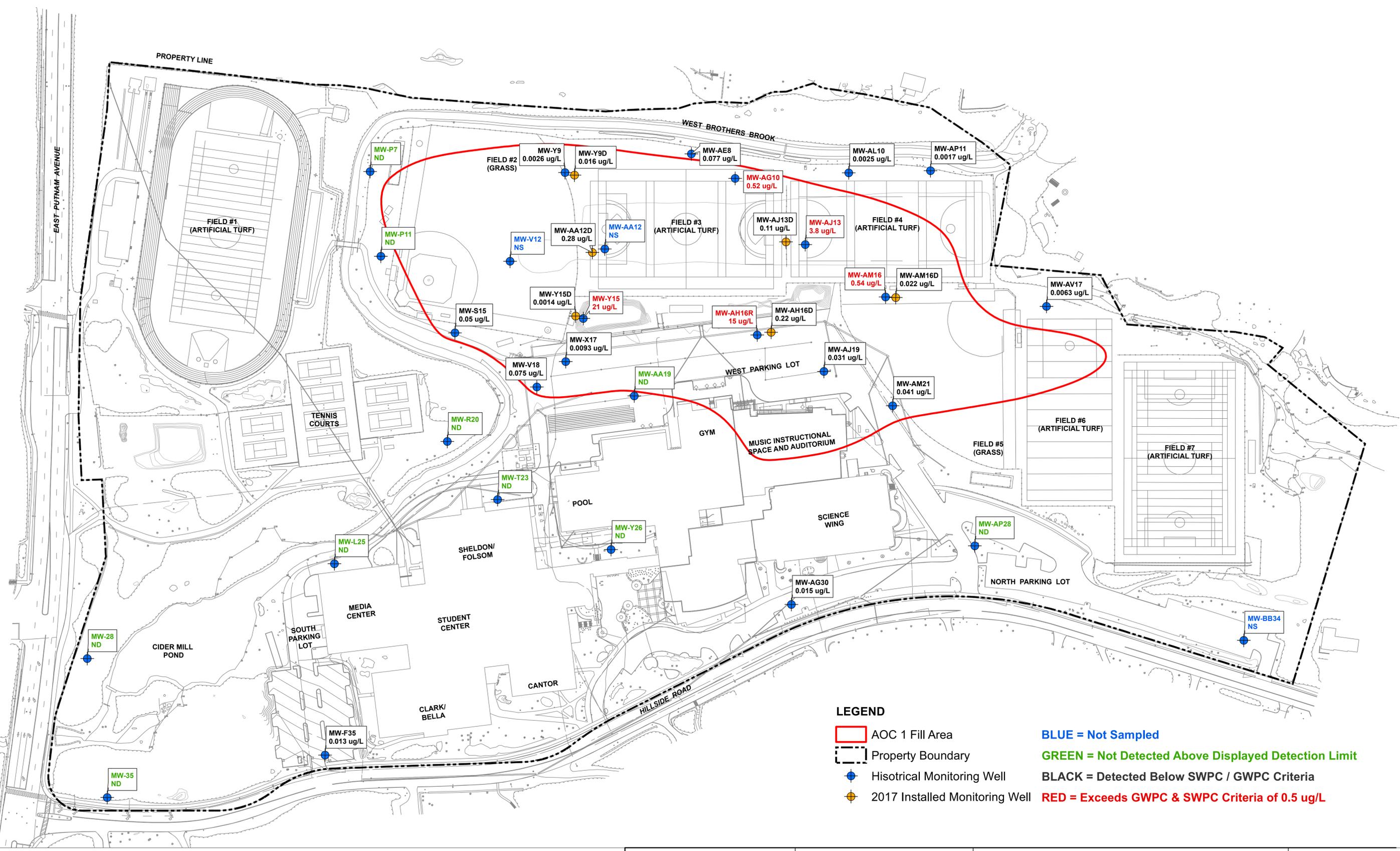
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

**FIGURE 15**  
PCBs in Groundwater  
June 2018  
GREENWICH HIGH SCHOOL  
10 HILLSIDE ROAD  
GREENWICH, CT

JOB 60225155  
FILE NO. \_\_\_\_\_  
CAD FILE \_\_\_\_\_  
SHEET \_\_\_\_\_

SOURCE:  
2010 AERIAL ORTHOPHOTO FROM STATE OF CONNECTICUT  
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION.

Path: X:\60225155\Greenwich High School Remediation\03\Work\GIS\MCH\Hydro Report\GPK\Editor\Figure 16\_PCBsSept 2018 REV.mxd



**LEGEND**

- AOC 1 Fill Area
- Property Boundary
- Historical Monitoring Well
- Not Detected Above Displayed Detection Limit
- Detected Below SWPC / GWPC Criteria
- Exceeds GWPC & SWPC Criteria of 0.5 ug/L
- BLUE = Not Sampled
- GREEN = Not Detected Above Displayed Detection Limit
- BLACK = Detected Below SWPC / GWPC Criteria
- RED = Exceeds GWPC & SWPC Criteria of 0.5 ug/L

AECOM Environment  
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SCALE:

1" = 80'  
 SCALE

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**FIGURE 16**  
 PCBs in Groundwater  
 September 2018  
 GREENWICH HIGH SCHOOL  
 10 HILLSIDE ROAD  
 GREENWICH, CT

JOB \_\_\_\_\_ 60225155  
 FILE NO. \_\_\_\_\_  
 CAD FILE \_\_\_\_\_  
 SHEET \_\_\_\_\_

SOURCE:  
 2010 AERIAL ORTHOPHOTO FROM STATE OF CONNECTICUT  
 DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION.

## Appendix C Historical Groundwater Data Summary Tables

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-28 MW-28-20170411-1 4/11/2017 17D0505	MW-28 MW-28-081617-1 8/16/2017 17H0897	MW-28 MW-28-111517-1 11/15/2017 17K0912	MW-28 MW-28-030618-1 3/6/2018 18C0227	MW-35 MW-35-20170411-1 4/11/2017 17D0505	MW-35 MW-35-081617-1 8/16/2017 17H0897	MW-35 MW-35-111617-1 11/16/2017 17K1027	MW-35 MW-35-030618-1 3/6/2018 18C0227	MW-AA12 MW-AA12-20170411-1 4/11/2017 17D0505
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<b>1.4</b>
Acenaphthene	NE	NE	<0.05	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05	<0.05	<b>6.4</b>
Acenaphthylene	420	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	2000	1100000	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<b>0.58</b>
Benzo(a)anthracene	0.06	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	0.2	0.3	<0.05 UJ	<0.05	<0.05 UJ	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	0.08	0.3	<0.05 UJ	<0.05	<0.05	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	NE	NE	<0.05 UJ	<0.05	<0.05	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	0.5	0.3	<0.05 UJ	<0.05	<0.05	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Chrysene	NE	NE	<0.05 UJ	<0.05	<0.05	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	NE	NE	<0.01 UJ	<0.01	<0.01	<0.01	<0.01 UJ	<0.01 UJ	<0.01	<0.01	<0.01
Fluoranthene	280	3700	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<b>0.42</b>
Fluorene	280	140000	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<b>3.4</b>
Indeno(1,2,3-cd)pyrene	NE	NE	<0.05 UJ	<0.05	<0.05	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Naphthalene	280	NE	<0.10	<0.1	<0.10	<0.10	<0.10	<0.1	<0.09	<0.10	<b>8.2</b>
Phenanthrene	200	0.077*	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<b>2.9*</b>
Pyrene	200	110000	<0.05	<0.05	<0.05 UJ	<0.05	<0.05	<0.05	<0.05	<0.05	<b>0.23</b>
<b>Metals (mg/L)</b>											
Antimony	0.006	86	<0.005	<0.005	<0.005	NS	<0.005	<0.005	<0.005	NS	<0.005
Arsenic	0.05	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium	1	NE	<b>0.043</b>	<b>0.056</b>	<b>0.072</b>	<b>0.077</b>	<b>0.401</b>	<b>0.481</b>	<b>0.575</b>	<b>0.147</b>	<b>0.675</b>
Beryllium	0.004	0.004	<0.001	<0.001	<0.001	NS	<0.001	<0.001	<0.001	NS	<0.001
Cadmium	0.005	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	0.05	NE	<0.001	<0.001	<0.001	<b>0.002</b>	<b>0.002</b>	<0.001	<0.001	<b>0.003</b>	<0.001
Copper	1.3	0.048	<0.005	<0.005	<0.005	NS	<b>0.016</b>	<0.005	<b>0.017</b>	NS	<0.005
Lead	0.015	0.013	<0.002	<0.002	<0.002	<0.002	<b>0.005</b>	<0.002	<b>0.002</b>	<b>0.01</b>	<0.002
Mercury	0.002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	0.1	0.880	<0.001	<b>0.053</b>	<0.001	NS	<b>0.005</b>	<b>0.004</b>	<b>0.009</b>	NS	<b>0.001</b>
Selenium	0.05	0.05	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010
Silver	0.036	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	0.05	NE	<0.002	<0.002	<0.002	NS	<b>0.003</b>	<0.002	<b>0.002</b>	NS	<0.002
Zinc	5	0.123	<0.002	<b>0.003</b>	<0.002	NS	<b>0.003</b>	<0.002	<b>0.004</b>	NS	<b>0.028</b>
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<b>0.0044 J</b>	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0011 UJ	<0.00096 UJ	<0.0010 UJ	<b>0.98 J</b>
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0022 UJ	<b>0.004 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0022 UJ	<0.0019 UJ	<0.0020 UJ	<0.0021 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<b>0.0017 J</b>	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<b>0.0018 J</b>	<0.00096 UJ	<0.0010 UJ	<b>0.094 J</b>
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0022 UJ	<b>0.011 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0022 UJ	<0.0019 UJ	<0.0020 UJ	<b>0.016 J</b>
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<b>0.0049 J</b>	<b>0.0068 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0022 UJ	<0.0019 UJ	<0.0020 UJ	<b>0.12 J</b>
Trichlorobiphenyl	NE	NE	<0.0010 UJ	<b>0.0050 J</b>	<0.0010 UJ	<0.0010 UJ	<0.0011 UJ	<0.0011 UJ	<0.00096 UJ	<0.0010 UJ	<b>0.45 J</b>
Total PCB Homologues	0.5	0.5	ND	<b>0.016 J</b>	<b>0.022 J</b>	ND	ND	<b>0.0018 J</b>	ND	ND	<b>1.7 J</b>

**Notes:**

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**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent..

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has

recommended a criterion of 14 ug/L. All reported values in this monitoring

period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte.

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AA12 MW-AA12-082417-1 8/24/2017 GBY92749	MW-AA12 MW-AA12-030818-1 3/8/2018 18C0412	MW-AA12D MW-AA12-D-082417-1 8/24/2017 17H1571	MW-AA12D MW-AA12D-111417-1 11/14/2017 17K0813	MW-AA12D MW-AA12D-030618-1 3/6/2018 18C0227	MW-AA19 MW-AA19-20170413-1 4/13/2017 17D0656	MW-AA19 MW-AA19-081817-1 8/18/2017 17H1062	MW-AA19 MW-AA19-111617-1 11/16/2017 17K1027	MW-AA19 MW-AA19-030918-1 3/9/2018 18C0412
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	0.72	0.66	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	5.6	4.1	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	0.1	0.07	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	3	1.3	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	6	1.9	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	4.9	1.7	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	5.3	1.6	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	3.5	1.1 J	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	2.9	1.4	NS	NS	NS	NS	NS	NS	NS
Chrysene	NE	NE	4.5	1.7	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	1.7	0.44	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	3700	9.5	3.9	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	3.7	2.5	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	3.5	1	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	NE	1.9	1.6	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	9.6*	4.7*	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	7.8	3.4	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	<0.005	<0.005	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	<0.004	<0.004	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	0.594	0.242	NS	NS	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	<0.001	<0.001	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	<0.001	<0.001	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	<0.001	<0.001	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	0.048	<0.005	<0.005	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	0.013	<0.002	<0.002	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	<0.0002	<0.0002	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	0.880	0.002	0.001	NS	NS	NS	NS	NS	NS	NS
Selenium	0.05	0.05	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Silver	0.036	0.012	<0.001	<0.001	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	<0.002	<0.002	NS	NS	NS	NS	NS	NS	NS
Zinc	5	0.123	0.045	0.275	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	0.29 J	1.1 J	0.029 J	0.0087 J	0.013 J	<0.0011 UJ	<0.0011 UJ	<0.00092 UJ	<0.00097 UJ
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	0.0069 J	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<0.0022 UJ	<0.0022 UJ	<0.0018 UJ	<0.0019 UJ
Monochlorobiphenyl	NE	NE	0.019 J	0.068 J	0.0053 J	0.0013 J	0.0019 J	<0.0011 UJ	<0.0011 UJ	<0.00092 UJ	<0.00097 UJ
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	0.037 J	<0.0020 UJ	<0.0021 UJ	0.007 J	<0.0022 UJ	<0.0022 UJ	<0.0018 UJ	<0.0019 UJ
Tetrachlorobiphenyl	NE	NE	0.042 J	0.25 J	0.041 J	0.022 J	0.045 J	<0.0022 UJ	<0.0022 UJ	<0.0018 UJ	<0.0019 UJ
Trichlorobiphenyl	NE	NE	0.15 J	0.67 J	0.067 J	0.024 J	0.044 J	<0.0011 UJ	<0.0011 UJ	<0.00092 UJ	<0.00097 UJ
Total PCB Homologues	0.5	0.5	0.51 J	3.1 J	0.14 J	0.056 J	0.11 J	ND	ND	ND	ND

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent..

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AE8 MW-AE8-20170411-1 4/11/2017 17D0409	MW-AE8 MW-AE8-081617-1 8/16/2017 17H0897	MW-AE8 MW-AE8-111417-1 11/14/2017 17K0813	MW-AE8 MW-AE8-030818-1 3/8/2018 18C0412	MW-AG10 MW-AG10-20170411-1 4/11/2017 17D0409	MW-AG10 MW-AG10-081617-1 8/16/2017 17H0897	MW-AG10 MW-AG10-111417-1 11/14/2017 17K0813	MW-AG10 MW-AG10-030818-1 3/8/2018 18C0412	MW-AG10 DUP MW-AG10-20170411-2 4/11/2017 17D0409
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Anthracene	2000	1100000	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	<0.05	<0.05	<0.05	<0.05 UJ	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Chrysene	NE	NE	<0.05	<0.05	<0.05 UJ	<0.05	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	<0.01	<0.01 UJ	<0.01	<0.01	NS	NS	NS	NS	NS
Fluoranthene	280	3700	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Fluorene	280	140000	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Naphthalene	280	NE	<0.10	<0.1	<0.09	<0.10	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
Pyrene	200	110000	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	<0.005	<0.005	<0.005	<0.005	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	<0.004	<0.004	<0.004	<0.004	NS	NS	NS	NS	NS
Barium	1	NE	<b>0.174</b>	<b>0.192</b>	<b>0.137</b>	<b>0.045</b>	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	NS	NS
Chromium	0.05	NE	<b>0.002</b>	<b>0.001</b>	<0.001	<0.001	NS	NS	NS	NS	NS
Copper	1.3	0.048	<0.005	<0.005	<b>0.044</b>	<b>0.024</b>	NS	NS	NS	NS	NS
Lead	0.015	0.013	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	NS	NS	NS	NS	NS
Nickel	0.1	0.880	<b>0.002</b>	<b>0.003</b>	<b>0.003</b>	<b>0.001</b>	NS	NS	NS	NS	NS
Selenium	0.05	0.05	<0.010	<0.01	<0.010	<0.010	NS	NS	NS	NS	NS
Silver	0.036	0.012	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	NS	NS
Vanadium	0.05	NE	<b>0.002</b>	<b>0.003</b>	<b>0.003</b>	<b>0.003</b>	NS	NS	NS	NS	NS
Zinc	5	0.123	<b>0.007</b>	<0.002	<b>0.006</b>	<0.002	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<0.0011 UJ	<0.0010 UJ	<0.00097 UJ	<b>0.031 J</b>	<b>0.046 J</b>	<b>0.1 J</b>	<b>0.037 J</b>	<b>0.021 J</b>
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0022 UJ	<0.0020 UJ	<b>0.003 J</b>	<0.0021 UJ	<0.0021 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<0.0011 UJ	<0.0010 UJ	<0.00097 UJ	<0.0010 UJ	<b>0.0077 J</b>	<b>0.01 J</b>	<b>0.0018 J</b>	<0.0010 UJ
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0022 UJ	<b>0.053 J</b>	<b>0.023 J</b>	<0.0021 UJ	<0.0021 UJ	<b>0.01 J</b>	<b>0.011 J</b>	<0.0020 UJ
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<b>0.0081 J</b>	<b>0.11 J</b>	<b>0.048 J</b>	<b>0.033 J</b>	<b>0.023 J</b>	<b>0.072 J</b>	<b>0.056 J</b>	<b>0.025 J</b>
Trichlorobiphenyl	NE	NE	<0.0010 UJ	<b>0.0019 J</b>	<b>0.024 J</b>	<b>0.01 J</b>	<b>0.039 J</b>	<b>0.032 J</b>	<b>0.071 J</b>	<b>0.045 J</b>	<b>0.027 J</b>
Total PCB Homologues	0.5	0.5	ND	<b>0.010 J</b>	<b>0.19 J</b>	<b>0.084 J</b>	<b>0.1 J</b>	<b>0.11 J</b>	<b>0.26 J</b>	<b>0.15 J</b>	<b>0.073 J</b>

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ug/L = microgram per liter

NS = Not sampled for this constituent.

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AG30 MW-AG30-20170412-1 4/12/2017 17D0505	MW-AG30 MW-AG30-081717-1 8/17/2017 17H1062	MW-AG30 MW-AG30-111617-1 11/16/2017 17K1027	MW-AG30 MW-AG30-030918-1 3/9/2018 18C0412	MW-AH16R MW-AH16R-20170412-1 4/12/2017 17D0505	MW-AH16R MW-AH16R-081517-1 8/15/2017 GBY85227	MW-AH16R MW-AH16R-111517-1 11/15/2017 17K0912	MW-AH16R MW-AH16R-030618-1 3/6/2018 18C0227	MW-AJ13 MW-AJ13-20170411-1 4/11/2017 17D0409
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	<0.05	NS	NS	NS	3.4	0.17 J+	0.12	0.82	<0.05
Acenaphthene	NE	NE	<0.05	NS	NS	NS	0.46	0.44	0.48	<0.05	<0.05
Acenaphthylene	420	0.3	<0.05	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	2000	1100000	<0.05	NS	NS	NS	0.23	0.07	0.06	0.07	<0.05
Benzo(a)anthracene	0.06	0.3	<0.05	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	0.2	0.3	<0.05 UJ	NS	NS	NS	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	0.08	0.3	<0.05 UJ	NS	NS	NS	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	NE	NE	<0.05 UJ	NS	NS	NS	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	0.5	0.3	<0.05 UJ	NS	NS	NS	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Chrysene	NE	NE	<0.05 UJ	NS	NS	NS	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	NE	NE	<0.01 UJ	NS	NS	NS	<0.01 UJ	<0.01 UJ	<0.01	<0.01	<0.01
Fluoranthene	280	3700	<0.05	NS	NS	NS	0.11	<0.05	<0.05	<0.05	<0.05
Fluorene	280	140000	<0.05	NS	NS	NS	0.27	0.24 J+	0.26	0.17	<0.05
Indeno(1,2,3-cd)pyrene	NE	NE	<0.05 UJ	NS	NS	NS	<0.05 UJ	<0.05	<0.05	<0.05	<0.05
Naphthalene	280	NE	<0.10	NS	NS	NS	5.5	0.33 J+	0.3	0.98	<0.10
Phenanthrene	200	0.077*	<0.05	NS	NS	NS	0.45*	0.11 J+	0.07	0.08*	<0.05
Pyrene	200	110000	<0.05	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	<0.05
<b>Metals (mg/L)</b>											
Antimony	0.006	86	<0.005	NS	NS	NS	<0.005	<0.005	0.015	NS	<0.005
Arsenic	0.05	0.004	<0.004	NS	NS	NS	<0.004	0.044	0.011	0.002	0.03
Barium	1	NE	0.523	NS	NS	NS	0.996	1.19	0.719	0.545	0.128
Beryllium	0.004	0.004	0.002	NS	NS	NS	<0.001	<0.001	<0.001	NS	<0.001
Cadmium	0.005	0.006	0.002	NS	NS	NS	<0.001	0.002	<0.001	<0.001	<0.001
Chromium	0.05	NE	0.033	NS	NS	NS	0.003	0.017	0.002	0.003	0.001
Copper	1.3	0.048	0.029	NS	NS	NS	<0.005	0.023	<0.005	NS	<0.005
Lead	0.015	0.013	0.013	NS	NS	NS	<0.002	0.012	0.003	<0.002	0.002
Mercury	0.002	0.0004	<0.0002	NS	NS	NS	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	0.1	0.880	0.019	NS	NS	NS	0.003	0.008	0.003	NS	0.016
Selenium	0.05	0.05	<0.010	NS	NS	NS	<0.010	<0.01	<0.010	<0.010	<0.010
Silver	0.036	0.012	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	0.05	NE	0.042	NS	NS	NS	0.007	0.046	0.002	NS	<0.002
Zinc	5	0.123	0.079	NS	NS	NS	0.027	0.215	0.019	NS	0.716
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.00096 UJ	<0.0010 UJ	11 J	3.8 J	5.5 J	7.7 J	1.7 J+
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0021 UJ	0.0027 J	<0.0021 UJ	0.0041 J	0.004 J	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.00096 UJ	<0.0010 UJ	11 J	5.4 J	8.3 J	11 J	0.024 J
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0021 UJ	0.033 J	0.017 J	0.035 J	0.031 J	0.029 J
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0021 UJ	0.35 J	0.15 J	0.21 J	0.19 J	0.34 J
Trichlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.00096 UJ	<0.0010 UJ	2.2 J	0.58 J	0.69 J	0.79 J	1.6 J
Total PCB Homologues	0.5	0.5	ND	ND	ND	ND	25 J	10 J	15 J	20 J	3.7 J

**Notes:**

This is a summary table. Only detected compounds are presented.

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**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent.

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AJ13 MW-AJ13-082917-1 8/24/2017 GBY92749	MW-AJ13 MW-AJ13-111417-1 11/14/2017 17K0813	MW-AJ13 MW-AJ13-030818-1 3/6/2018 18C0346	MW-AJ13D MW-AJ13D-082917-1 8/29/2017 17H1571	MW-AJ13D MW-AJ13D-111417-1 11/14/2017 17K0813	MW-AJ13D MW-AJ13D-030818-1 3/6/2018 18C0346	MW-AJ19 MW-AJ19-20170412-1 4/12/2017 17D0656	MW-AJ19 MW-AJ19-081717-1 8/17/2017 17H1062	MW-AJ19 MW-AJ19-111617-1 11/16/2017 17K1027
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	<0.05	<0.05	<0.05 UJ	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Chrysene	NE	NE	<0.05	<0.05 UJ	<0.05	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	<0.01	<0.01	<0.01	NS	NS	NS	NS	NS	NS
Fluoranthene	280	3700	<0.05	<0.05	<b>0.05</b>	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
Naphthalene	280	NE	<0.11	<0.10	<0.10	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	<0.05	<0.05	<b>0.1*</b>	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	<0.05	<0.05	<0.05	NS	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	<0.005	<0.005	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	<b>0.09</b>	<b>0.079</b>	<0.004	NS	NS	NS	NS	NS	NS
Barium	1	NE	<b>0.068</b>	<b>0.054</b>	<b>0.024</b>	NS	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	<0.001	<0.001	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	<0.001	<0.001	<0.001	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	<b>0.002</b>	<b>0.002</b>	<0.001	NS	NS	NS	NS	NS	NS
Copper	1.3	0.048	<0.005	<0.005	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	0.013	<0.002	<0.002	<b>0.004</b>	NS	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	<0.0002	<0.0002	<0.0002	NS	NS	NS	NS	NS	NS
Nickel	0.1	0.880	<b>0.004</b>	<b>0.004</b>	NS	NS	NS	NS	NS	NS	NS
Selenium	0.05	0.05	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS
Silver	0.036	0.012	<0.001	<0.001	<0.001	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	<b>0.007</b>	<b>0.004</b>	NS	NS	NS	NS	NS	NS	NS
Zinc	5	0.123	<b>0.918</b>	<b>3.71</b>	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<b>2.7 J</b>	<b>1.2 J</b>	<b>0.38 J</b>	<b>4.2 J</b>	<b>0.68 J</b>	<b>0.061 J</b>	<0.0010 UJ	<0.0010 UJ	<0.00097 UJ
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<b>0.011 J</b>	<0.0020 UJ	<0.0020 UJ	<b>0.013 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ
Monochlorobiphenyl	NE	NE	<b>0.019 J</b>	<b>0.01 J</b>	<b>0.0015 J</b>	<b>1.6 J</b>	<b>0.14 J</b>	<b>0.021 J</b>	<0.0010 UJ	<0.0010 UJ	<0.00097 UJ
Pentachlorobiphenyl	NE	NE	<b>0.080 J</b>	<b>0.096 J</b>	<b>0.13 J</b>	<b>0.036 J</b>	<b>0.017 J</b>	<b>0.053 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ
Tetrachlorobiphenyl	NE	NE	<b>0.65 J</b>	<b>0.71 J</b>	<b>0.56 J</b>	<b>0.24 J</b>	<b>0.084 J</b>	<0.0020 UJ	<0.0020 UJ	<b>0.0047 J</b>	<0.0019 UJ
Trichlorobiphenyl	NE	NE	<b>2.9 J</b>	<b>2.8 J</b>	<b>1.7 J</b>	<b>1.4 J</b>	<b>0.4 J</b>	<b>0.073 J</b>	<0.0010 UJ	<b>0.0074 J</b>	<0.00097 UJ
Total PCB Homologues	0.5	0.5	<b>6.3 J</b>	<b>4.8 J</b>	<b>2.8 J</b>	<b>7.4 J</b>	<b>1.3 J</b>	<b>0.22 J</b>	ND	<b>0.012 J</b>	ND

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NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent.

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

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UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AJ19 MW-AJ19-030918-1 3/9/2018 18C0412	MW-AL10 MW-AL10-082917-1 8/29/2017 17H1571	MW-AL10 MW-AL10-111417-1 11/14/2017 17K0813	MW-AL10 MW-AL10-030918-1 3/9/2018 18C0412	MW-AM16 MW-AM16-20170411-1 4/11/2017 17D0505	MW-AM16 MW-AM16-082917-1 8/29/2017 17H1571	MW-AM16 MW-AM16-111517-1 11/15/2017 17K0912	MW-AM16 MW-AM16-030918-1 3/9/2018 18C0412	MW-AM16D MW-AM16-D-082917-1 8/29/2017 17H1571
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	3700	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	0.048	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	0.880	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	0.05	0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	0.036	0.012	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	0.123	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.00098 UJ	<b>0.011 J</b>	<0.0010 UJ	<0.00098 UJ	<b>0.059 J</b>	<b>0.0086 J</b>	<b>0.039 J</b>	<b>0.059 J</b>	<b>0.0014 J</b>
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<b>0.003 J</b>	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<0.00098 UJ	<b>0.0041 J</b>	<0.0010 UJ	<0.00098 UJ	<b>0.0076 J</b>	<b>0.0032 J</b>	<b>0.01 J</b>	<b>0.0071 J</b>	<0.0010 UJ
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<b>0.035 J</b>	<b>0.039 J</b>	<0.0020 UJ
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<b>0.023 J</b>	<b>0.022 J</b>	<b>0.15 J</b>	<b>0.18 J</b>	<0.0020 UJ
Trichlorobiphenyl	NE	NE	<0.00098 UJ	<b>0.0034 J</b>	<0.0010 UJ	<0.00098 UJ	<b>0.036 J</b>	<b>0.014 J</b>	<b>0.098 J</b>	<b>0.17 J</b>	<b>0.0011 J</b>
Total PCB Homologues	0.5	0.5	ND	<b>0.019 J</b>	ND	ND	<b>0.13 J</b>	<b>0.048 J</b>	<b>0.34 J</b>	<b>0.46 J</b>	<b>0.0024 J</b>

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NS = Not Sampled for Specific Analyte  
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mg/L = milligram per Liter  
\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.  
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**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AM16D MW-AM16D-111517-1 11/15/2017 17K0912	MW-AM16D MW-AM16D-030918-1 3/9/2018 18C0412	MW-AM21 MW-AM21-20170412-1 4/12/2017 17D0656	MW-AM21 MW-AM21-081817-1 8/18/2017 17H1062	MW-AM21 MW-AM21-111617-1 11/16/2017 17K1027	MW-AM21 MW-AM21-030918-1 3/9/2018 18C0412	MW-AP11 MW-AP11-20170412-1 4/12/2017 17D0656	MW-AP11 MW-AP11-030918-1 3/9/2018 18C0412	MW-AP28 MW-AP28-20170412-1 4/12/2017 17D0505
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	3700	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	0.048	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	0.880	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	0.05	0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	0.036	0.012	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	0.123	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<0.00095 UJ	<b>0.0072 J</b>	<0.0011 UJ	<0.0010 UJ	<0.00098 UJ	<b>0.0014 J</b>	<b>0.0017 J</b>	<0.0010 UJ
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0021 UJ	<0.0021 UJ	<0.0021 UJ
Monochlorobiphenyl	NE	NE	<b>0.0012 J</b>	<0.00095 UJ	<0.0010 UJ	<0.0011 UJ	<0.0010 UJ	<0.00098 UJ	<b>0.0029 J</b>	<0.0011 UJ	<0.0010 UJ
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<b>0.011 J</b>	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<b>0.006 J</b>	<0.0021 UJ	<0.0021 UJ	<0.0021 UJ
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<b>0.035 J</b>	<b>0.015 J</b>	<0.0021 UJ	<b>0.0043 J</b>	<b>0.015 J</b>	<0.0021 UJ	<0.0021 UJ	<0.0021 UJ
Trichlorobiphenyl	NE	NE	<0.0010 UJ	<b>0.017 J</b>	<b>0.022 J</b>	<0.0011 UJ	<0.0010 UJ	<b>0.0011 J</b>	<0.0010 UJ	<b>0.0013 J</b>	<0.0010 UJ
Total PCB Homologues	0.5	0.5	<b>0.0012 J</b>	<b>0.062 J</b>	<b>0.044 J</b>	ND	<b>0.0043 J</b>	<b>0.022 J</b>	<b>0.0043 J</b>	<b>0.003 J</b>	ND

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**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AP28 MW-AP28-081717-1 8/17/2017 17H1062	MW-AP28 MW-AP28-111617-1 11/16/2017 17K1027	MW-AV17 MW-AV17-20170411-1 4/11/2017 17D0505	MW-AV17 MW-AV17-081817-1 8/18/2017 17H1062	MW-AV17 MW-AV17-111517-1 11/15/2017 17K0912	MW-AV17 MW-AV17-030918-1 3/9/2018 18C0412	MW-BB34 MW-BB34-20170412-1 4/12/2017 17D0505	MW-BB34 MW-BB34-081717-1 8/17/2017 17H1062	MW-BB34 MW-BB34-111617-1 11/16/2017 17K1027
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	3700	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	0.048	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	0.880	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	0.05	0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	0.036	0.012	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	0.123	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00097 UJ	<0.0010 UJ	<0.0011 UJ	<0.00096 UJ
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0021 UJ	<0.0019 UJ	<0.0019 UJ	<0.0020 UJ	<0.0021 UJ	<0.0019 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00097 UJ	<0.0010 UJ	<0.0011 UJ	<0.00096 UJ
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0021 UJ	<0.0019 UJ
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0021 UJ	<0.0019 UJ
Trichlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00097 UJ	<0.0010 UJ	<0.0011 UJ	<0.00096 UJ
Total PCB Homologues	0.5	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent..

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-BB34 MW-BB34-03052018-1 3/6/2018 18C0227	MW-F35 MW-F35-20170413-1 4/13/2017 17D0656	MW-F35 MW-F35-081717-1 8/17/2017 17H1062	MW-F35 MW-F35-111617-1 11/16/2017 17K1027	MW-F35 MW-F35-030818-1 3/6/2018 18C0346	MW-L25 MW-L25-20170412 4/12/2017 17D0656	MW-L25 MW-L25-081617-1 8/16/2017 17H1062	MW-L25 MW-L25-111617-1 11/16/2017 17K1027	MW-L25 MW-L25-030818-1 3/6/2018 18C0346
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	3700	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	0.048	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	0.880	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	0.05	0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	0.036	0.012	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	0.123	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00095 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00095 UJ	<0.0010 UJ
Hexachlorobiphenyl	NE	NE	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00095 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00095 UJ	<0.0010 UJ
Pentachlorobiphenyl	NE	NE	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ
Tetrachlorobiphenyl	NE	NE	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ
Trichlorobiphenyl	NE	NE	<b>0.0012 J</b>	<0.0010 UJ	<0.0010 UJ	<0.00095 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00095 UJ	<0.0010 UJ
Total PCB Homologues	0.5	0.5	<b>0.0012 J</b>	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Detected above reporting limit**  
**Orange highlighted cells exceed GWPC.**  
**Yellow highlighted cells exceed SWPC.**  
<0.01 = Not detected above the specified laboratory reporting limit  
GWPC = Ground water protection criteria.  
SWPC = Surface water protection criteria.  
NE = Criterion has not been established  
NS = Not Sampled for Specific Analyte  
ug/L = microgram per liter  
NS = Not sampled for this constituent.  
mg/L = milligram per Liter  
\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.  
J = The analyte was positively identified; the associated numerical value is the  $\pm$   
UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-P11 MW-P11-20170411-1 4/11/2017 17D0409	MW-P11 MW-P11-081517-1 8/15/2017 17H0897	MW-P11 MW-P11-111517-1 11/15/2017 17K0912	MW-P11 MW-P11-030618-1 3/6/2018 18C0227	MW-P7 MW-P7-20170411-1 4/11/2017 17D0409	MW-P7 MW-P7-081517-1 8/15/2017 17H0897	MW-P7 MW-P7-111517-1 11/15/2017 17K0912	MW-P7 MW-P7-030618-1 3/6/2018 18C0227	MW-R20 MW-R20-20170412-1 4/12/2017 17D0656
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Acenaphthene	NE	NE	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Acenaphthylene	420	0.3	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Anthracene	2000	1100000	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Chrysene	NE	NE	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	<0.01	<0.01 UJ	<0.01	<0.01	NS
Fluoranthene	280	3700	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Fluorene	280	140000	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Naphthalene	280	NE	NS	NS	NS	NS	<0.10	<0.11	<0.10	<0.10	NS
Phenanthrene	200	0.077*	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
Pyrene	200	110000	NS	NS	NS	NS	<0.05	<0.05	<0.05	<0.05	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	<0.005	<0.005	<0.005	NS	NS
Arsenic	0.05	0.004	NS	NS	NS	NS	<0.004	<0.004	<0.004	<0.004	NS
Barium	1	NE	NS	NS	NS	NS	<b>0.096</b>	<b>0.148</b>	<b>0.138</b>	<b>0.081</b>	NS
Beryllium	0.004	0.004	NS	NS	NS	NS	<0.001	<0.001	<0.001	NS	NS
Cadmium	0.005	0.006	NS	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	NS
Chromium	0.05	NE	NS	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	NS
Copper	1.3	0.048	NS	NS	NS	NS	<0.005	<0.005	<0.005	NS	NS
Lead	0.015	0.013	NS	NS	NS	NS	<0.002	<0.002	<0.002	<0.002	NS
Mercury	0.002	0.0004	NS	NS	NS	NS	<0.0002	<0.0002	<0.0002	<0.0002	NS
Nickel	0.1	0.880	NS	NS	NS	NS	<b>0.002</b>	<b>0.004</b>	<b>0.002</b>	NS	NS
Selenium	0.05	0.05	NS	NS	NS	NS	<0.010	<0.01	<0.010	<0.010	NS
Silver	0.036	0.012	NS	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	NS
Vanadium	0.05	NE	NS	NS	NS	NS	<0.002	<0.002	<0.002	NS	NS
Zinc	5	0.123	NS	NS	NS	NS	<0.002	<b>0.003</b>	<b>0.012</b>	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0011 UJ	<0.0010 UJ	<0.0010 UJ	<0.00098 UJ	<0.0010 UJ	<0.0010 UJ	<b>0.019 J</b>	<0.00098 UJ	<0.0010 UJ
Hexachlorobiphenyl	NE	NE	<0.0021 UJ	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<0.0011 UJ	<0.0010 UJ	<b>0.002 J</b>	<0.00098 UJ	<0.0010 UJ	<0.0010 UJ	<b>0.03 J</b>	<0.00098 UJ	<b>0.0024 J</b>
Pentachlorobiphenyl	NE	NE	<0.0021 UJ	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
Tetrachlorobiphenyl	NE	NE	<0.0021 UJ	<0.0020 UJ	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
Trichlorobiphenyl	NE	NE	<0.0011 UJ	<0.0010 UJ	<0.0010 UJ	<0.00098 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.00098 UJ	<0.0010 UJ
Total PCB Homologues	0.5	0.5	ND	ND	<b>0.002 J</b>	ND	ND	ND	<b>0.05 J</b>	ND	<b>0.0024 J</b>

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent..

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-R20 MW-R20-081617-1 8/16/2017 17H1062	MW-R20 MW-R20-111617-1 11/16/2017 17K1027	MW-R20 MW-R20-111617-2 11/16/2017 17K1027	MW-R20 MW-R20-030818-1 3/6/2018 18C0346	MW-R20 DUP MW-R20-081617-2 8/16/2017 17H1062	MW-R20 DUP MW-R20-030818-2 3/6/2018 18C0346	MW-S15 MW-515-20170410-1 4/10/2017 17D0409	MW-S15 MW-515-20170410-2 4/10/2017 17D0409	MW-S15 MW-S15-081517-1 8/15/2017 17H0897
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Acenaphthene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Acenaphthylene	420	0.3	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Chrysene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	NS	NS	<0.01	NS	<0.01 UJ
Fluoranthene	280	3700	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Naphthalene	280	NE	NS	NS	NS	NS	NS	NS	<0.10	NS	<b>0.11</b>
Phenanthrene	200	0.077*	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	<0.05	NS	<0.05
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	NS	NS	<0.005	<0.005	<0.005
Arsenic	0.05	0.004	NS	NS	NS	NS	NS	NS	<0.004	<0.004	<0.004
Barium	1	NE	NS	NS	NS	NS	NS	NS	<b>0.109</b>	<b>0.113</b>	<b>0.145</b>
Beryllium	0.004	0.004	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<0.001
Cadmium	0.005	0.006	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<0.001
Chromium	0.05	NE	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<0.001
Copper	1.3	0.048	NS	NS	NS	NS	NS	NS	<0.005	<0.005	<0.005
Lead	0.015	0.013	NS	NS	NS	NS	NS	NS	<0.002	<0.002	<0.002
Mercury	0.002	0.0004	NS	NS	NS	NS	NS	NS	<0.0002	<0.0002	<0.0002
Nickel	0.1	0.880	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<0.001
Selenium	0.05	0.05	NS	NS	NS	NS	NS	NS	<0.010	<0.010	<0.01
Silver	0.036	0.012	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<0.001
Vanadium	0.05	NE	NS	NS	NS	NS	NS	NS	<b>0.003</b>	<b>0.003</b>	<b>0.004</b>
Zinc	5	0.123	NS	NS	NS	NS	NS	NS	<b>0.003</b>	<b>0.004</b>	<0.002
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0011 UJ	<0.0010 UJ	<0.0010 UJ	<0.00098 UJ	<0.0011 UJ	<0.00098 UJ	<b>0.0044 J</b>	<b>0.0064 J</b>	<b>0.0069 J</b>
Hexachlorobiphenyl	NE	NE	<0.0022 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0022 UJ	<0.0020 UJ	<0.0022 UJ	<0.0022 UJ	<0.0021 UJ
Monochlorobiphenyl	NE	NE	<0.0011 UJ	<0.0010 UJ	<0.0010 UJ	<0.00098 UJ	<0.0011 UJ	<0.00098 UJ	<0.0011 UJ	<0.0011 UJ	<0.0011 UJ
Pentachlorobiphenyl	NE	NE	<0.0022 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0022 UJ	<0.0020 UJ	<0.0022 UJ	<0.0022 UJ	<b>0.0054 J</b>
Tetrachlorobiphenyl	NE	NE	<0.0022 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0022 UJ	<0.0020 UJ	<b>0.027 J</b>	<b>0.034 J</b>	<b>0.029 J</b>
Trichlorobiphenyl	NE	NE	<0.0011 UJ	<0.0010 UJ	<0.0010 UJ	<b>0.001 J</b>	<0.0011 UJ	<0.00098 UJ	<b>0.025 J</b>	<b>0.032 J</b>	<b>0.028 J</b>
Total PCB Homologues	0.5	0.5	<0.0055 UJ	ND	ND	<b>0.001 J</b>	ND	ND	<b>0.057 J</b>	<b>0.072 J</b>	<b>0.070 J</b>

**Notes:**  
This is a summary table. Only detected compounds are presented.  
**Bold = Detected above reporting limit**  
**Orange highlighted cells exceed GWPC.**  
**Yellow highlighted cells exceed SWPC.**  
<0.01 = Not detected above the specified laboratory reporting limit  
GWPC = Ground water protection criteria.  
SWPC = Surface water protection criteria.  
NE = Criterion has not been established  
NS = Not Sampled for Specific Analyte  
ug/L = microgram per liter  
NS = Not sampled for this constituent.  
mg/L = milligram per Liter  
\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.  
J = The analyte was positively identified; the associated numerical value is the  $\pm$   
UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-S15 MW-S15-111517-1 11/15/2017 17K0912	MW-S15 MW-S15-111517-2 11/15/2017 17K0912	MW-S15 MW-S15-030618-1 3/6/2018 18C0227	MW-S15 DUP MW-S15-081517-2 8/15/2017 17H0897	MW-S15 DUP MW-S15-030618-2 3/6/2018 18C0227	MW-T23 MW-T23-20170412-1 4/12/2017 17D0656	MW-T23 MW-T23-081817-1 8/18/2017 17H1062	MW-T23 MW-T23-111617-1 11/16/2017 17K1027	MW-T23 MW-T23-030818-1 3/6/2018 18C0346
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Acenaphthene	NE	NE	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Acenaphthylene	420	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Anthracene	2000	1100000	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Chrysene	NE	NE	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	<0.01 UJ	<0.01	<0.01	<0.01	<0.01	NS	NS	NS	NS
Fluoranthene	280	3700	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Fluorene	280	140000	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Naphthalene	280	NE	<0.10	<0.09	<0.10	<0.1	<0.10	NS	NS	NS	NS
Phenanthrene	200	0.077*	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
Pyrene	200	110000	<0.05	<0.05	<0.05	<0.05	<0.05	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	<0.005	<0.005	NS	<0.005	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	<0.004	<0.004	<b>0.005</b>	<0.004	<b>0.005</b>	NS	NS	NS	NS
Barium	1	NE	<b>0.077</b>	<b>0.098</b>	<b>0.092</b>	<b>0.142</b>	<b>0.092</b>	NS	NS	NS	NS
Beryllium	0.004	0.004	<0.001	<0.001	NS	<0.001	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	NS
Chromium	0.05	NE	<b>0.001</b>	<b>0.002</b>	<b>0.002</b>	<0.001	<b>0.002</b>	NS	NS	NS	NS
Copper	1.3	0.048	<b>0.008</b>	<b>0.008</b>	NS	<0.005	NS	NS	NS	NS	NS
Lead	0.015	0.013	<0.002	<b>0.002</b>	<b>0.001</b>	<0.002	<0.002	NS	NS	NS	NS
Mercury	0.002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NS	NS	NS	NS
Nickel	0.1	0.880	<b>0.001</b>	<0.001	NS	<b>0.003 J</b>	NS	NS	NS	NS	NS
Selenium	0.05	0.05	<0.010	<0.010	<0.010	<0.01	<0.010	NS	NS	NS	NS
Silver	0.036	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	NS
Vanadium	0.05	NE	<b>0.004 J</b>	<b>0.008 J</b>	NS	<b>0.003</b>	NS	NS	NS	NS	NS
Zinc	5	0.123	<b>0.01</b>	<b>0.008</b>	NS	<0.002	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<b>0.01 J</b>	<b>0.0075 J</b>	<b>0.0019 J</b>	<b>0.0075 J</b>	<b>0.0042 J</b>	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ
Hexachlorobiphenyl	NE	NE	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0021 UJ	<0.0021 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<b>0.0023 J</b>	<0.0010 UJ	<0.0010 UJ	<0.0011 UJ	<b>0.0012 J</b>	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ
Pentachlorobiphenyl	NE	NE	<b>0.028 J</b>	<b>0.021 J</b>	<b>0.0076 J</b>	<b>0.0089 J</b>	<b>0.0059 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
Tetrachlorobiphenyl	NE	NE	<b>0.093 J</b>	<b>0.078 J</b>	<b>0.026 J</b>	<b>0.040 J</b>	<b>0.025 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
Trichlorobiphenyl	NE	NE	<b>0.057 J</b>	<b>0.043 J</b>	<b>0.016 J</b>	<b>0.032 J</b>	<b>0.017 J</b>	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ
Total PCB Homologues	0.5	0.5	<b>0.19 J</b>	<b>0.15 J</b>	<b>0.051 J</b>	<b>0.088 J</b>	<b>0.054 J</b>	ND	ND	ND	ND

**Notes:**

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mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

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**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-V12 MW-V12-20170412-1 4/12/2017 17D0505	MW-V12 MW-V12-081517-1 8/15/2017 17H0897	MW-V12 MW-V12-111517-1 11/15/2017 17K0912	MW-V12 MW-V12-030618-1 3/6/2018 18C0227	MW-V18 MW-V18-20170413-1 4/13/2017 17D0656	MW-V18 MW-V18-081717-1 8/17/2017 17H1062	MW-V18 MW-V18-111417-1 11/14/2017 17K0813	MW-V18 MW-V18-030818-1 3/6/2018 18C0346	MW-X17 MW-X17-20170410-1 4/10/2017 17D0409
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	420	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	280	3700	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	280	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	200	0.077*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.05	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	0.004	0.004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.005	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	1.3	0.048	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.015	0.013	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.002	0.0004	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	0.1	0.880	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	0.05	0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	0.036	0.012	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	5	0.123	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<b>0.0012 J</b>	<0.0011 UJ	<0.0010 UJ	<0.00096 UJ	<b>0.0091 J</b>	<b>0.015 J</b>	<b>0.015 J</b>	<b>0.0025 J</b>	<0.0010 UJ
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0022 UJ	<b>0.012 J</b>	<b>0.0031 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0021 UJ	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<0.0011 UJ	<0.0010 UJ	<0.00096 UJ	<b>0.0023 J</b>	<0.0010 UJ	<0.00093 UJ	<0.0010 UJ	<0.0010 UJ
Pentachlorobiphenyl	NE	NE	<b>0.021 J</b>	<b>0.010 J</b>	<b>0.13 J</b>	<b>0.048 J</b>	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<b>0.0068 J</b>	<0.0020 UJ
Tetrachlorobiphenyl	NE	NE	<b>0.057 J</b>	<b>0.040 J</b>	<b>0.26 J</b>	<b>0.11 J</b>	<b>0.015 J</b>	<b>0.037 J</b>	<b>0.022 J</b>	<b>0.031 J</b>	<0.0020 UJ
Trichlorobiphenyl	NE	NE	<b>0.013 J</b>	<b>0.015 J</b>	<b>0.043 J</b>	<b>0.017 J</b>	<b>0.022 J</b>	<b>0.045 J</b>	<b>0.042 J</b>	<b>0.015 J</b>	<0.0010 UJ
Total PCB Homologues	0.5	0.5	<b>0.092 J</b>	<b>0.065 J</b>	<b>0.44 J</b>	<b>0.18 J</b>	<b>0.048 J</b>	<b>0.097 J</b>	<b>0.079 J</b>	<b>0.055 J</b>	ND

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent..

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-X17 MW-X17-081717-1 8/17/2017 17H1062	MW-X17 MW-X17-111417-1 11/14/2017 17K0813	MW-X17 MW-X17-030818-1 3/6/2018 18C0346	MW-Y15 MW-Y15-20170412-1 4/12/2017 17D0505	MW-Y15 MW-Y15-082917-1 8/24/2017 GBY92749	MW-Y15 MW-Y15-111417-1 11/14/2017 17K0813	MW-Y15 MW-Y15-030618-1 3/6/2018 18C0227	MW-Y15D MW-Y15-D-082917-1 8/29/2017 17H1571	MW-Y15D MW-Y15D-111417-1 11/14/2017 17K0813
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	<b>0.06</b>	<b>0.09</b>	<0.05	<0.05	NS	NS
Acenaphthene	NE	NE	NS	NS	NS	<b>0.35</b>	<b>0.39</b>	<b>0.34</b>	<b>0.25</b>	NS	NS
Acenaphthylene	420	0.3	NS	NS	NS	<0.05	<0.06	<0.05	<0.05	NS	NS
Anthracene	2000	1100000	NS	NS	NS	<b>0.08</b>	<b>0.07</b>	<0.05	<b>0.06</b>	NS	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	<0.05	<0.06	<0.05	<0.05	NS	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	<0.05 UJ	<0.06	<0.05	<0.05	NS	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	<0.05 UJ	<0.06	<0.05	<0.05	NS	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	<0.05 UJ	<0.06	<0.05	<0.05	NS	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	<0.05 UJ	<0.06	<0.05	<0.05	NS	NS
Chrysene	NE	NE	NS	NS	NS	<0.05 UJ	<0.06	<0.05 UJ	<0.05	NS	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	<0.01 UJ	<0.01	<0.01	<0.01	NS	NS
Fluoranthene	280	3700	NS	NS	NS	<0.05	<0.06	<0.05	<0.05	NS	NS
Fluorene	280	140000	NS	NS	NS	<b>0.18</b>	<b>0.19</b>	<b>0.18</b>	<b>0.14</b>	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	<0.05 UJ	<0.06	<0.05	<0.05	NS	NS
Naphthalene	280	NE	NS	NS	NS	<0.10	<0.11	<0.10	<0.10	NS	NS
Phenanthrene	200	0.077*	NS	NS	NS	<0.05	<0.06	<0.05	<0.05	NS	NS
Pyrene	200	110000	NS	NS	NS	<0.05	<0.06	<0.05	<0.05	NS	NS
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	<0.005	<0.005	<0.005	NS	NS	NS
Arsenic	0.05	0.004	NS	NS	NS	<0.004	<0.004	<0.004	<0.004	NS	NS
Barium	1	NE	NS	NS	NS	<b>0.49</b>	<b>0.688</b>	<b>0.486</b>	<b>0.479</b>	NS	NS
Beryllium	0.004	0.004	NS	NS	NS	<0.001	<0.001	<0.001	NS	NS	NS
Cadmium	0.005	0.006	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	NS	NS
Chromium	0.05	NE	NS	NS	NS	<b>0.002</b>	<0.001	<b>0.001</b>	<b>0.002</b>	NS	NS
Copper	1.3	0.048	NS	NS	NS	<0.005	<0.005	<0.005	NS	NS	NS
Lead	0.015	0.013	NS	NS	NS	<b>0.004</b>	<0.002	<0.002	<b>0.007</b>	NS	NS
Mercury	0.002	0.0004	NS	NS	NS	<0.0002	<0.0002	<0.0002	<0.0002	NS	NS
Nickel	0.1	0.880	NS	NS	NS	<b>0.004</b>	<0.001	<b>0.002</b>	NS	NS	NS
Selenium	0.05	0.05	NS	NS	NS	<0.010	<0.010	<0.010	<0.010	NS	NS
Silver	0.036	0.012	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	NS	NS
Vanadium	0.05	NE	NS	NS	NS	<0.002	<0.002	<0.002	NS	NS	NS
Zinc	5	0.123	NS	NS	NS	<b>0.008</b>	<b>0.009</b>	<b>0.014</b>	NS	NS	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<b>0.081 J</b>	<0.0010 UJ	<b>4.2 J</b>	<b>8.0 J</b>	<b>4.8 J</b>	<b>2.5 J</b>	<b>0.20 J</b>	<b>0.13 J</b>
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<b>0.0024 J</b>	<0.0020 UJ	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<0.00093 UJ	<0.0010 UJ	<b>3.3 J</b>	<b>8.9 J</b>	<b>4.1 J</b>	<b>2.6 J</b>	<b>0.048 J</b>	<b>0.023 J</b>
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<b>0.026 J</b>	<b>0.015 J</b>	<b>0.031 J</b>	<b>0.025 J</b>	<0.0020 UJ	<0.0020 UJ
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<b>0.05 J</b>	<b>0.0023 J</b>	<b>0.17 J</b>	<b>0.19 J</b>	<b>0.2 J</b>	<b>0.14 J</b>	<b>0.075 J</b>	<b>0.071 J</b>
Trichlorobiphenyl	NE	NE	<0.0010 UJ	<b>0.19 J</b>	<b>0.0022 J</b>	<b>0.73 J</b>	<b>1.1 J</b>	<b>0.88 J</b>	<b>0.5 J</b>	<b>0.16 J</b>	<b>0.13 J</b>
Total PCB Homologues	0.5	0.5	ND	<b>0.32 J</b>	<b>0.0045 J</b>	<b>8.5 J</b>	<b>18 J</b>	<b>10 J</b>	<b>5.6 J</b>	<b>0.49 J</b>	<b>0.36 J</b>

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NS = Not sampled for this constituent.

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-Y15D MW-Y15D-030618-1 3/6/2018 18C0227	MW-Y26 MW-Y26-20170412-1 4/12/2017 17D0656	MW-Y26 MW-Y26-081617-1 8/16/2017 17H1062	MW-Y26 MW-Y26-111617-1 11/16/2017 17K1027	MW-Y26 MW-Y26-030818-1 3/6/2018 18C0346	MW-Y9 MW-Y9-20170413-1 4/13/2017 17D0656	MW-Y9 MW-Y9-082417-1 8/24/2017 GBY92749	MW-Y9 MW-Y9-111417-1 11/14/2017 17K0813	MW-Y9 MW-Y9-030618-1 3/6/2018 18C0346
<b>PAHs (ug/L)</b>											
2-Methylnaphthalene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<b>0.08</b>
Acenaphthene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Acenaphthylene	420	0.3	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Anthracene	2000	1100000	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Benzo(a)anthracene	0.06	0.3	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Benzo(a)pyrene	0.2	0.3	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05 UJ
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Chrysene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	<0.05 UJ	<0.05
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS	NS	NS	NS	<0.01	<0.01	<0.01
Fluoranthene	280	3700	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Fluorene	280	140000	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Naphthalene	280	NE	NS	NS	NS	NS	NS	NS	<0.10	<0.10	<0.10
Phenanthrene	200	0.077*	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
Pyrene	200	110000	NS	NS	NS	NS	NS	NS	<0.05	<0.05	<0.05
<b>Metals (mg/L)</b>											
Antimony	0.006	86	NS	NS	NS	NS	NS	NS	<0.005	<0.005	NS
Arsenic	0.05	0.004	NS	NS	NS	NS	NS	NS	<0.004	<b>0.009</b>	<b>0.004</b>
Barium	1	NE	NS	NS	NS	NS	NS	NS	<b>0.947</b>	<b>0.789</b>	<b>0.077</b>
Beryllium	0.004	0.004	NS	NS	NS	NS	NS	NS	<0.001	<0.001	NS
Cadmium	0.005	0.006	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<b>0.001</b>
Chromium	0.05	NE	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<b>0.002</b>
Copper	1.3	0.048	NS	NS	NS	NS	NS	NS	<0.005	<b>0.01</b>	NS
Lead	0.015	0.013	NS	NS	NS	NS	NS	NS	<b>0.003</b>	<b>0.004</b>	<b>0.002</b>
Mercury	0.002	0.0004	NS	NS	NS	NS	NS	NS	<0.0002	<0.0002	<b>0.0002</b>
Nickel	0.1	0.880	NS	NS	NS	NS	NS	NS	<b>0.002</b>	<b>0.005</b>	NS
Selenium	0.05	0.05	NS	NS	NS	NS	NS	NS	<0.010	<0.010	<b>0.01</b>
Silver	0.036	0.012	NS	NS	NS	NS	NS	NS	<0.001	<0.001	<b>0.001</b>
Vanadium	0.05	NE	NS	NS	NS	NS	NS	NS	<0.002	<0.002	NS
Zinc	5	0.123	NS	NS	NS	NS	NS	NS	<b>0.008</b>	<b>0.014</b>	NS
<b>PCB Homologs (ug/L)</b>											
Dichlorobiphenyl	NE	NE	<b>0.061 J</b>	<0.0011 UJ	<0.0010 UJ	<0.00095 UJ	<0.00099 UJ	<0.0010 UJ	<0.0010 UJ	<0.00096 UJ	<0.00098 UJ
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0022 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ
Monochlorobiphenyl	NE	NE	<b>0.014 J</b>	<0.0011 UJ	<0.0010 UJ	<0.00095 UJ	<0.00099 UJ	<0.0010 UJ	<0.0010 UJ	<0.00096 UJ	<0.00098 UJ
Pentachlorobiphenyl	NE	NE	<b>0.018 J</b>	<0.0022 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<b>0.0033 J</b>
Tetrachlorobiphenyl	NE	NE	<b>0.057 J</b>	<0.0022 UJ	<0.0020 UJ	<0.0019 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0019 UJ	<b>0.0031 J</b>
Trichlorobiphenyl	NE	NE	<b>0.063 J</b>	<0.0011 UJ	<0.0010 UJ	<0.00095 UJ	<0.00099 UJ	<0.0010 UJ	<0.0010 UJ	<0.00096 UJ	<b>0.0013 J</b>
Total PCB Homologues	0.5	0.5	<b>0.21 J</b>	ND	ND	ND	ND	ND	ND	ND	<b>0.0076 J</b>

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent.

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit

**Table 1  
Groundwater Analytical Data**

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-Y9D MW-Y9-D-082417-1 8/24/2017 17H1571	MW-Y9D MW-Y9D-111417-1 11/14/2017 17K0813	MW-Y9D MW-Y9D-030618-1 3/6/2018 18C0346
<b>PAHs (ug/L)</b>					
2-Methylnaphthalene	NE	NE	NS	NS	NS
Acenaphthene	NE	NE	NS	NS	NS
Acenaphthylene	420	0.3	NS	NS	NS
Anthracene	2000	1100000	NS	NS	NS
Benzo(a)anthracene	0.06	0.3	NS	NS	NS
Benzo(a)pyrene	0.2	0.3	NS	NS	NS
Benzo(b)fluoranthene	0.08	0.3	NS	NS	NS
Benzo(g,h,i)perylene	NE	NE	NS	NS	NS
Benzo(k)fluoranthene	0.5	0.3	NS	NS	NS
Chrysene	NE	NE	NS	NS	NS
Dibenzo(a,h)anthracene	NE	NE	NS	NS	NS
Fluoranthene	280	3700	NS	NS	NS
Fluorene	280	140000	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NE	NE	NS	NS	NS
Naphthalene	280	NE	NS	NS	NS
Phenanthrene	200	0.077*	NS	NS	NS
Pyrene	200	110000	NS	NS	NS
<b>Metals (mg/L)</b>					
Antimony	0.006	86	NS	NS	NS
Arsenic	0.05	0.004	NS	NS	NS
Barium	1	NE	NS	NS	NS
Beryllium	0.004	0.004	NS	NS	NS
Cadmium	0.005	0.006	NS	NS	NS
Chromium	0.05	NE	NS	NS	NS
Copper	1.3	0.048	NS	NS	NS
Lead	0.015	0.013	NS	NS	NS
Mercury	0.002	0.0004	NS	NS	NS
Nickel	0.1	0.880	NS	NS	NS
Selenium	0.05	0.05	NS	NS	NS
Silver	0.036	0.012	NS	NS	NS
Vanadium	0.05	NE	NS	NS	NS
Zinc	5	0.123	NS	NS	NS
<b>PCB Homologs (ug/L)</b>					
Dichlorobiphenyl	NE	NE	<0.0010 UJ	<0.00096 UJ	<0.00097 UJ
Hexachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0019 UJ	<0.0019 UJ
Monochlorobiphenyl	NE	NE	<0.0010 UJ	<0.00096 UJ	<0.00097 UJ
Pentachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0019 UJ	<0.0019 UJ
Tetrachlorobiphenyl	NE	NE	<0.0020 UJ	<0.0019 UJ	<0.0019 UJ
Trichlorobiphenyl	NE	NE	<0.0010 UJ	<0.00096 UJ	<0.00097 UJ
Total PCB Homologues	0.5	0.5	ND	ND	ND

**Notes:**

This is a summary table. Only detected compounds are presented.

**Bold = Detected above reporting limit**

**Orange highlighted cells exceed GWPC.**

**Yellow highlighted cells exceed SWPC.**

<0.01 = Not detected above the specified laboratory reporting limit

GWPC = Ground water protection criteria.

SWPC = Surface water protection criteria.

NE = Criterion has not been established

NS = Not Sampled for Specific Analyte

ug/L = microgram per liter

NS = Not sampled for this constituent..

mg/L = milligram per Liter

\* SWPC for phenanthrene is a typographical error in RSRs. CTDEEP has recommended a criterion of 14 ug/L. All reported values in this monitoring period are below the CTDEEP recommended criterion.

J = The analyte was positively identified; the associated numerical value is the  $\pm$

UJ = The analyte was not detected above the reported sample quantitation limit.

## Appendix D Laboratory Analytical Reports

April 18, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich High School, Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18D0545

Enclosed are results of analyses for samples received by the laboratory on April 12, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 4/18/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18D0545

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

PROJECT LOCATION: Greenwich High School, Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Q23-SB608 (2-4)-1	18D0545-01	Soil		SM 2540G SW-846 6010C-D SW-846 6020A-B SW-846 7470A SW-846 7471B	
V21-SB600 (5-6)-1	18D0545-02	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 6020A-B	
V21-SB601 (5-6)-1	18D0545-03	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 6020A-B	
V21-SB601 (6-8)-1	18D0545-04	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 6020A-B	
D19-SB607 (0-1)-1	18D0545-05	Soil		SM 2540G SW-846 6010C-D SW-846 6020A-B SW-846 7470A SW-846 7471B	

**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 arsenic and lead were requested and reported.

For method 6020, only Pb was requested and reported.

**SW-846 6010C-D****Qualifications:****MS-07**

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

**Analyte & Sample(s) Qualified:****Lead**

18D0545-02[V21-SB600 (5-6)-1], B200905-MS1

**SW-846 6010C/D SW-846 6020A/B**

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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. Kopycinski  
Laboratory Director

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: Q23-SB608 (2-4)-1

Sampled: 4/12/2018 11:50

Sample ID: 18D0545-01

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	14	0.58	mg/Kg dry	1		SW-846 6010C-D	4/13/18	4/16/18 15:16	QNW
Mercury	0.044	0.029	mg/Kg dry	1		SW-846 7471B	4/13/18	4/16/18 16:35	AMP

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: Q23-SB608 (2-4)-1

Sampled: 4/12/2018 11:50

Sample ID: 18D0545-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	4/16/18	4/16/18 16:06	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: Q23-SB608 (2-4)-1

Sampled: 4/12/2018 11:50

Sample ID: 18D0545-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	110	5.0	µg/L	5		SW-846 6020A-B	4/17/18	4/18/18 11:31	WSD
Mercury	0.00038	0.00010	mg/L	1		SW-846 7470A	4/17/18	4/18/18 12:57	AMP

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB600 (5-6)-1

Sampled: 4/12/2018 12:15

Sample ID: 18D0545-02

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	41	11	mg/Kg dry	1		CTDEP ETPH	4/15/18	4/17/18 20:41	RMW
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		51.8	50-150					4/17/18 20:41	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB600 (5-6)-1

Sampled: 4/12/2018 12:15

Sample ID: 18D0545-02

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	4/13/18	4/16/18 15:12	QNW
Lead	15	0.53	mg/Kg dry	1	MS-07	SW-846 6010C-D	4/13/18	4/16/18 15:12	QNW

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB600 (5-6)-1

Sampled: 4/12/2018 12:15

Sample ID: 18D0545-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	4/16/18	4/16/18 16:06	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB600 (5-6)-1

Sampled: 4/12/2018 12:15

Sample ID: 18D0545-02

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	9.2	5.0	µg/L	5		SW-846 6020A-B	4/17/18	4/18/18 11:34	WSD

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Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (5-6)-1

Sampled: 4/12/2018 13:20

Sample ID: 18D0545-03

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	30	11	mg/Kg dry	1		CTDEP ETPH	4/15/18	4/16/18 20:47	RMW
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		61.1	50-150					4/16/18 20:47	

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Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (5-6)-1

Sampled: 4/12/2018 13:20

Sample ID: 18D0545-03

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	2.4	1.9	mg/Kg dry	1		SW-846 6010C-D	4/13/18	4/16/18 15:21	QNW
Lead	45	0.58	mg/Kg dry	1		SW-846 6010C-D	4/13/18	4/16/18 15:21	QNW

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (5-6)-1

Sampled: 4/12/2018 13:20

Sample ID: 18D0545-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	4/16/18	4/16/18 16:06	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (5-6)-1

Sampled: 4/12/2018 13:20

Sample ID: 18D0545-03

Sample Matrix: Soil

**SPLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	15	5.0	µg/L	5		SW-846 6020A-B	4/17/18	4/18/18 11:27	WSD

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (6-8)-1

Sampled: 4/12/2018 13:30

Sample ID: 18D0545-04

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	31	12	mg/Kg dry	1		CTDEP ETPH	4/15/18	4/16/18 21:58	RMW
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		62.7	50-150					4/16/18 21:58	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (6-8)-1

Sampled: 4/12/2018 13:30

Sample ID: 18D0545-04

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	4/13/18	4/16/18 15:26	QNW
Lead	23	0.57	mg/Kg dry	1		SW-846 6010C-D	4/13/18	4/16/18 15:26	QNW

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (6-8)-1

Sampled: 4/12/2018 13:30

Sample ID: 18D0545-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.0		% Wt	1		SM 2540G	4/16/18	4/16/18 16:06	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: V21-SB601 (6-8)-1

Sampled: 4/12/2018 13:30

Sample ID: 18D0545-04

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	200	5.0	µg/L	5		SW-846 6020A-B	4/17/18	4/18/18 11:38	WSD

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: D19-SB607 (0-1)-1

Sampled: 4/12/2018 13:50

Sample ID: 18D0545-05

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	29	0.53	mg/Kg dry	1		SW-846 6010C-D	4/13/18	4/16/18 11:10	QNW
Mercury	0.048	0.028	mg/Kg dry	1		SW-846 7471B	4/13/18	4/16/18 16:37	AMP

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: D19-SB607 (0-1)-1

Sampled: 4/12/2018 13:50

Sample ID: 18D0545-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	4/16/18	4/16/18 16:07	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School, Greenwi

Sample Description:

Work Order: 18D0545

Date Received: 4/12/2018

Field Sample #: D19-SB607 (0-1)-1

Sampled: 4/12/2018 13:50

Sample ID: 18D0545-05

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	60	5.0	µg/L	5		SW-846 6020A-B	4/17/18	4/18/18 11:41	MJH
Mercury	0.00019	0.00010	mg/L	1		SW-846 7470A	4/17/18	4/18/18 12:55	AMP

**Sample Extraction Data**

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0545-02 [V21-SB600 (5-6)-1]	B200972	30.4	1.00	04/15/18
18D0545-03 [V21-SB601 (5-6)-1]	B200972	30.1	1.00	04/15/18
18D0545-04 [V21-SB601 (6-8)-1]	B200972	30.0	1.00	04/15/18

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18D0545-01 [Q23-SB608 (2-4)-1]	B201001	04/16/18
18D0545-02 [V21-SB600 (5-6)-1]	B201001	04/16/18
18D0545-03 [V21-SB601 (5-6)-1]	B201001	04/16/18
18D0545-04 [V21-SB601 (6-8)-1]	B201001	04/16/18
18D0545-05 [D19-SB607 (0-1)-1]	B201001	04/16/18

**Prep Method: SW-846 3050B-SW-846 6010C-D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0545-01 [Q23-SB608 (2-4)-1]	B200905	1.49	50.0	04/13/18
18D0545-02 [V21-SB600 (5-6)-1]	B200905	1.56	50.0	04/13/18
18D0545-03 [V21-SB601 (5-6)-1]	B200905	1.47	50.0	04/13/18
18D0545-04 [V21-SB601 (6-8)-1]	B200905	1.53	50.0	04/13/18
18D0545-05 [D19-SB607 (0-1)-1]	B200905	1.59	50.0	04/13/18

**Prep Method: SW-846 3010A-SW-846 6020A-B**

Leachates were extracted on 4/16/2018 per SW-846 1312 in Batch B201058

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0545-01 [Q23-SB608 (2-4)-1]	B201173	50.0	50.0	04/17/18
18D0545-02 [V21-SB600 (5-6)-1]	B201173	50.0	50.0	04/17/18
18D0545-03 [V21-SB601 (5-6)-1]	B201173	50.0	50.0	04/17/18
18D0545-04 [V21-SB601 (6-8)-1]	B201173	50.0	50.0	04/17/18
18D0545-05 [D19-SB607 (0-1)-1]	B201173	50.0	50.0	04/17/18

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

Leachates were extracted on 4/16/2018 per SW-846 1312 in Batch B201058

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0545-01 [Q23-SB608 (2-4)-1]	B201175	6.00	6.00	04/17/18
18D0545-05 [D19-SB607 (0-1)-1]	B201175	6.00	6.00	04/17/18

**Prep Method: SW-846 7471-SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0545-01 [Q23-SB608 (2-4)-1]	B200906	0.598	50.0	04/13/18
18D0545-05 [D19-SB607 (0-1)-1]	B200906	0.604	50.0	04/13/18

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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
<b>Batch B200972 - SW-846 3546</b>										
<b>Blank (B200972-BLK1)</b>					Prepared: 04/15/18 Analyzed: 04/16/18					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.15		mg/Kg wet	3.40		63.3	50-150			
<b>LCS (B200972-BS1)</b>					Prepared: 04/15/18 Analyzed: 04/16/18					
CT ETPH	20.2	10	mg/Kg wet	33.3		60.7	60-120			
Surrogate: 2-Fluorobiphenyl	2.10		mg/Kg wet	3.40		61.7	50-150			
<b>LCS Dup (B200972-BSD1)</b>					Prepared: 04/15/18 Analyzed: 04/16/18					
CT ETPH	20.9	10	mg/Kg wet	33.3		62.6	60-120	2.98	30	
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg wet	3.40		64.0	50-150			

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
<b>Batch B200905 - SW-846 3050B</b>											
<b>Blank (B200905-BLK1)</b>											
					Prepared: 04/13/18 Analyzed: 04/16/18						
Arsenic	ND	2.5	mg/Kg wet								
Lead	ND	0.75	mg/Kg wet								
<b>LCS (B200905-BS1)</b>											
					Prepared: 04/13/18 Analyzed: 04/16/18						
Arsenic	135	4.9	mg/Kg wet	147		92.0	83-117				
Lead	84.9	1.5	mg/Kg wet	92.3		91.9	82.8-117				
<b>LCS Dup (B200905-BSD1)</b>											
					Prepared: 04/13/18 Analyzed: 04/16/18						
Arsenic	131	4.9	mg/Kg wet	147		88.9	83-117	3.38	30		
Lead	81.2	1.5	mg/Kg wet	92.3		88.0	82.8-117	4.41	30		
<b>Duplicate (B200905-DUP1)</b>											
					<b>Source: 18D0545-02</b>			Prepared: 04/13/18 Analyzed: 04/16/18			
Arsenic	ND	1.8	mg/Kg dry		ND			NC	35		
Lead	14.9	0.55	mg/Kg dry		15.0			0.768	35		
<b>MRL Check (B200905-MRL1)</b>											
					Prepared: 04/13/18 Analyzed: 04/16/18						
Lead	0.428	0.48	mg/Kg wet	0.483		88.5	80-120				
<b>Matrix Spike (B200905-MS1)</b>											
					<b>Source: 18D0545-02</b>			Prepared: 04/13/18 Analyzed: 04/16/18			
Arsenic	15.6	1.8	mg/Kg dry	18.4	ND	85.0	75-125				
Lead	28.4	0.55	mg/Kg dry	18.4	15.0	<b>72.8</b> *	75-125			MS-07	
<b>Batch B200906 - SW-846 7471</b>											
<b>Blank (B200906-BLK1)</b>											
					Prepared: 04/13/18 Analyzed: 04/16/18						
Mercury	ND	0.025	mg/Kg wet								
<b>LCS (B200906-BS1)</b>											
					Prepared: 04/13/18 Analyzed: 04/16/18						
Mercury	10.7	2.0	mg/Kg wet	9.36		114	73.7-126.3				
<b>LCS Dup (B200906-BSD1)</b>											
					Prepared: 04/13/18 Analyzed: 04/16/18						
Mercury	9.92	1.9	mg/Kg wet	9.36		106	73.7-126.3	7.19	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
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**Batch B201001 - % Solids**

**Duplicate (B201001-DUP2)**

**Source: 18D0545-01**

Prepared & Analyzed: 04/16/18

% Solids	86.7		% Wt		86.8			0.0566	20	
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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
<b>Batch B201173 - SW-846 3010A</b>										
<b>Blank (B201173-BLK1)</b>				Prepared: 04/17/18 Analyzed: 04/18/18						
Lead	ND	5.0	µg/L							
<b>LCS (B201173-BS1)</b>				Prepared: 04/17/18 Analyzed: 04/18/18						
Lead	496	10	µg/L	500		99.3	80-120			
<b>LCS Dup (B201173-BSD1)</b>				Prepared: 04/17/18 Analyzed: 04/18/18						
Lead	502	10	µg/L	500		100	80-120	1.12	20	
<b>Matrix Spike (B201173-MS1)</b>		<b>Source: 18D0545-03</b>			Prepared: 04/17/18 Analyzed: 04/18/18					
Lead	519	10	µg/L	500	14.9	101	75-125			
<b>Batch B201175 - SW-846 7470A Prep</b>										
<b>Blank (B201175-BLK1)</b>				Prepared: 04/17/18 Analyzed: 04/18/18						
Mercury	ND	0.00010	mg/L							
<b>LCS (B201175-BS1)</b>				Prepared: 04/17/18 Analyzed: 04/18/18						
Mercury	0.00197	0.00010	mg/L	0.00200		98.7	80-120			
<b>LCS Dup (B201175-BSD1)</b>				Prepared: 04/17/18 Analyzed: 04/18/18						
Mercury	0.00203	0.00010	mg/L	0.00200		101	80-120	2.73	20	
<b>Matrix Spike (B201175-MS1)</b>		<b>Source: 18D0545-01</b>			Prepared: 04/17/18 Analyzed: 04/18/18					
Mercury	0.00219	0.00010	mg/L	0.00200	0.000380	90.5	75-125			

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>SW-846 6010C-D in Soil</b>	
Arsenic	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
<b>SW-846 7471B in Soil</b>	
Mercury	CT,NH,NY,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

18 DOSYS  
 Phone: 413-525-2332  
 Fax: 413-525-6405  
 Email: info@contestlabs.com

Doc # 381 Rev 1\_03242017  
 39 Spruce Street  
 East Longmeadow, MA 01028

Page 1 of 1



Company Name: **AECOM**  
 Address: **500 Enterprise Dr. 1A, Rocky Hill, CT**  
 Phone: **(860) 263-5800**  
 Project Name: **Greenwich High School**  
 Project Location: **Greenwich, CT**  
 Project Number: **60432356**  
 Project Manager: **Math Road**  
 Con-Test Quote Name/Number:  
 Invoice Recipient: **Math Road**  
 Sampled By: **E. Doerfler J. Christopher**

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	Q23-SB608(2-4)-1	4/12/18 11:50	4/12/18 11:50	Y		S	U
02	V21-SB600(5-6)-1	4/12/18 12:15	4/12/18 12:15	Y		S	U
03	V21-SB601(5-6)-1	4/12/18 13:20	4/12/18 13:20	Y		S	U
04	V21-SB601(6-8)-1	4/12/18 13:30	4/12/18 13:30	Y		S	U
05	D19-SB607(0-1)-1	4/12/18 13:50	4/12/18 13:50	Y		S	U

Requested Turnaround Time:  7-Day  10-Day

Due Date: \_\_\_\_\_

Rush-Approval Required:  3-Day  4-Day

Data Delivery:  PDF  EXCEL

Other: **EDD - Equis**

CLP Like Data Pkg Required:

Email To: **math@aecom.com**

Fax To #: \_\_\_\_\_

Retention Limit	Requirements	Special Requirements
MA	<input type="checkbox"/> MA MCP Required	
	<input type="checkbox"/> MCP Certification Form Required	
CT	<input checked="" type="checkbox"/> CT RCP Required	
	<input type="checkbox"/> RCP Certification Form Required	
Other:	<input type="checkbox"/> MA State DW Required	
	PWSID #	

Project Entity:  Government  Municipality  MWRA  Other  Chromatogram

Federal  21 J  School  MBTA  AIHA-LAP, LLC

City  Brownfield

PCB ONLY:  Soxhlet  Non Soxhlet



Please use the following codes to indicate possible sample concentration within the Conc Code column above:  
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

- 1 Matrix Codes:**  
 GW = Ground Water  
 VW = Waste Water  
 DW = Drinking Water  
 A = Air  
 S = Soil  
 SL = Sludge  
 SOL = Solid  
 O = Other (please define)
- 2 Preservation Codes:**  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium Bisulfate  
 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
 O = Other (please define)
- 3 Container Codes:**  
 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define)



Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False**

Statement will be brought to the attention of the Client - State True or False

Client AECOM

Received By ESD Date 4/12/18 Time 1800

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
 Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 4.1  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
 Was COC Relinquished? T Does Chain Agree With Samples? F

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_

Are there Rushes? F Who was notified? \_\_\_\_\_

Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? \_\_\_\_\_ Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM1\DATA\A041618\A0416006.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0416006.D  
 Data File Path D:\HPCHEM1\DATA\A041618\  
 Operator RMW  
 Date Acquired 4/16/2018 5:05  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	*%D +/-20
c - 9	1.19	553580	573747	3
c - 10	1.53	566594	573747	1
c - 12	2.24	573685	573747	0
c - 14	2.91	589977	573747	-3
c - 16	3.50	604381	573747	-5
c - 18	4.09	609737	573747	-6
c - 20	4.71	616288	573747	-7
c - 22	5.22	614604	573747	-7
c - 24	5.66	599853	573747	-5
c - 26	6.05	582401	573747	-2
c - 28	6.41	568922	573747	1
c - 30	6.75	560923	573747	2
c - 32	7.06	532430	573747	7
c - 34	7.35	515840	573747	10
c - 36	7.64	511997	573747	11

**Samples**

18D0442-12RE1@20X  
 18D0545-03  
 18D0442-11RE1@20X

\*One compound allowed %D &lt;=50%

D:\HPCHEM\1\DATA\A041618.SEC\A0416007.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0416007.D  
 Data File Path D:\HPCHEM\1\DATA\A041618.SEC\  
 Operator RMW  
 Date Acquired 4/16/2018 5:24  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	*%D +/-20
c - 9	1.17	564569	585630	4
c - 10	1.51	574710	585630	2
c - 12	2.23	580031	585630	1
c - 14	2.89	591090	585630	-1
c - 16	3.48	598499	585630	-2
c - 18	4.06	599883	585630	-2
c - 20	4.68	604675	585630	-3
c - 22	5.19	607566	585630	-4
c - 24	5.63	603038	585630	-3
c - 26	6.03	599172	585630	-2
c - 28	6.39	598535	585630	-2
c - 30	6.72	598515	585630	-2
c - 32	7.03	569764	585630	3
c - 34	7.32	550583	585630	6
c - 36	7.61	543825	585630	7

**Samples**

18D0545-04

\*One compound allowed %D &lt;=50%

D:\HPCHEM1\DATA\A041718.SEC\A0417007.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0417007.D  
 Data File Path D:\HPCHEM1\DATA\A041718.SEC\  
 Operator RMW  
 Date Acquired 4/17/2018 10:53  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	%D +/-20
c - 9	1.17	588583	616319	5
c - 10	1.51	597332	616319	3
c - 12	2.23	604159	616319	2
c - 14	2.89	616935	616319	0
c - 16	3.48	625996	616319	-2
c - 18	4.06	626904	616319	-2
c - 20	4.68	632559	616319	-3
c - 22	5.19	635355	616319	-3
c - 24	5.63	631603	616319	-2
c - 26	6.03	629052	616319	-2
c - 28	6.39	630305	616319	-2
c - 30	6.72	634058	616319	-3
c - 32	7.03	609176	616319	1
c - 34	7.32	593349	616319	4
c - 36	7.61	589422	616319	4

**Samples**

18D0611-01  
 18D0611-02  
 18D0611-03  
 18D0631-01  
 18D0645-02  
 18D0645-03  
 18D0645-04  
 18D0669-01

\*One compound allowed %D &lt;=50%

D:\HPCHEM1\DATA\A041718\A0417064.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0417064.D  
 Data File Path D:\HPCHEM1\DATA\A041718\  
 Operator RMW  
 Date Acquired 4/17/2018 8:06  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	*%D +/-20
c - 9	1.19	612380	617264	1
c - 10	1.53	620945	617264	-1
c - 12	2.24	622734	617264	-1
c - 14	2.91	635511	617264	-3
c - 16	3.50	647987	617264	-5
c - 18	4.09	651237	617264	-6
c - 20	4.71	654282	617264	-6
c - 22	5.22	650147	617264	-5
c - 24	5.66	633474	617264	-3
c - 26	6.05	616473	617264	0
c - 28	6.41	606197	617264	2
c - 30	6.74	603488	617264	2
c - 32	7.06	577893	617264	6
c - 34	7.35	563944	617264	9
c - 36	7.64	562273	617264	9

**Samples**

18D0545-02

\*One compound allowed %D &lt;/=50%



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich High School, Greenwich, CT

**Project Number:** 18D0545

**Laboratory Sample ID(s):**

**Sample Date(s):**

18D0545-01 thru 18D0545-05

04/12/2018

*List RCP Methods Used:*

CTDEP ETPH, SW-846 1312, SW-846 6010C-D, SW-846 6020A-B, SW-846 7470A, SW-846 7471B

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Tod E. Kopyscinski

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:** 04/18/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

April 24, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18D0644

Enclosed are results of analyses for samples received by the laboratory on April 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 4/24/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18D0644

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
C11-SB610 (0-0.5)-1	18D0644-01	Soil		CTDEP ETPH MADEP-EPH-04-1.1 SM 2540G	
D10-SB611 (6-6.5)-1	18D0644-02	Soil		CTDEP ETPH SM 2540G	
AT27-SB612 (0-0.5)-1	18D0644-03	Soil		SM 2540G SW-846 8081B	
AV28-SB613 (0-0.5)-1	18D0644-04	Soil		SM 2540G SW-846 8081B	
H27-SB603 (1-2)-1	18D0644-05	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**CTDEP ETPH****Qualifications:****L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

**Analyte & Samples(s) Qualified:****CT ETPH**

B201315-BS1

**MS-23**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

**Analyte & Samples(s) Qualified:****CT ETPH**

18D0644-01[C11-SB610 (0-0.5)-1], B200982-MS1, B200982-MSD1

**SW-846 8081B****Qualifications:****V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

**Analyte & Samples(s) Qualified:****Methoxychlor [2C]**

B201069-BLK1, B201069-BS1, B201069-BSD1

**MADEP-EPH-04-1.1**

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: C11-SB610 (0-0.5)-1

Sampled: 4/13/2018 11:10

Sample ID: 18D0644-01

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	36	12	mg/Kg dry	1	MS-23	CTDEP ETPH	4/16/18	4/18/18 15:04	RMW
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		54.6	50-150					4/18/18 15:04	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: C11-SB610 (0-0.5)-1

Sampled: 4/13/2018 11:10

Sample ID: 18D0644-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
C19-C36 Aliphatics	19	12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Unadjusted C11-C22 Aromatics	66	12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
C11-C22 Aromatics	46	12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Acenaphthene	0.19	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Anthracene	0.45	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Benzo(a)anthracene	1.5	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Benzo(a)pyrene	1.5	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Benzo(b)fluoranthene	1.9	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Benzo(g,h,i)perylene	0.99	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Benzo(k)fluoranthene	0.68	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Chrysene	1.6	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Dibenz(a,h)anthracene	0.24	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Fluoranthene	3.8	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Fluorene	0.19	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Indeno(1,2,3-cd)pyrene	0.96	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Phenanthrene	2.2	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Pyrene	3.7	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	4/16/18	4/19/18 2:12	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Chlorooctadecane (COD)		76.1	40-140					4/19/18 2:12	
o-Terphenyl (OTP)		80.0	40-140					4/19/18 2:12	
2-Bromonaphthalene		85.3	40-140					4/19/18 2:12	
2-Fluorobiphenyl		91.0	40-140					4/19/18 2:12	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: C11-SB610 (0-0.5)-1

Sampled: 4/13/2018 11:10

Sample ID: 18D0644-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	4/16/18	4/16/18 19:57	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: D10-SB611 (6-6.5)-1

Sampled: 4/13/2018 11:30

Sample ID: 18D0644-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	4/16/18	4/16/18 19:57	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: D10-SB611 (6-6.5)-1

Sampled: 4/13/2018 11:30

Sample ID: 18D0644-02

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.073	mg/L	1		CTDEP ETPH	4/19/18	4/20/18 16:25	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	92.2		50-150					4/20/18 16:25	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: AT27-SB612 (0-0.5)-1

Sampled: 4/12/2018 15:00

Sample ID: 18D0644-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.6		% Wt	1		SM 2540G	4/16/18	4/16/18 19:57	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: AT27-SB612 (0-0.5)-1

Sampled: 4/12/2018 15:00

Sample ID: 18D0644-03

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:13	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		64.8	30-150					4/21/18 12:13	
Decachlorobiphenyl [2]		65.5	30-150					4/21/18 12:13	
Tetrachloro-m-xylene [1]		87.2	30-150					4/21/18 12:13	
Tetrachloro-m-xylene [2]		78.6	30-150					4/21/18 12:13	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: AV28-SB613 (0-0.5)-1

Sampled: 4/12/2018 15:10

Sample ID: 18D0644-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	4/16/18	4/16/18 19:57	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: AV28-SB613 (0-0.5)-1

Sampled: 4/12/2018 15:10

Sample ID: 18D0644-04

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	4/19/18	4/21/18 12:40	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		58.4	30-150					4/21/18 12:40	
Decachlorobiphenyl [2]		59.5	30-150					4/21/18 12:40	
Tetrachloro-m-xylene [1]		94.8	30-150					4/21/18 12:40	
Tetrachloro-m-xylene [2]		90.1	30-150					4/21/18 12:40	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT  
 Date Received: 4/13/2018  
 Field Sample #: H27-SB603 (1-2)-1  
 Sample ID: 18D0644-05  
 Sample Matrix: Soil

Sample Description:  
 Sampled: 4/13/2018 14:45

Work Order: 18D0644

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Aldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
alpha-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
beta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
delta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
gamma-BHC (Lindane) [1]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Chlordane [2]	0.026	0.024	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
4,4'-DDD [2]	0.0053	0.0048	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
4,4'-DDE [2]	0.011	0.0048	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
4,4'-DDT [1]	0.0050	0.0048	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Dieldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Endosulfan I [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Endosulfan II [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Endosulfan sulfate [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Endrin [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Endrin aldehyde [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Endrin ketone [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Heptachlor [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Heptachlor epoxide [2]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Hexachlorobenzene [1]	ND	0.0072	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Methoxychlor [1]	ND	0.060	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	4/16/18	4/21/18 1:43	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.2	30-150					4/21/18 1:43	
Decachlorobiphenyl [2]		84.8	30-150					4/21/18 1:43	
Tetrachloro-m-xylene [1]		85.3	30-150					4/21/18 1:43	
Tetrachloro-m-xylene [2]		77.5	30-150					4/21/18 1:43	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18D0644

Date Received: 4/13/2018

Field Sample #: H27-SB603 (1-2)-1

Sampled: 4/13/2018 14:45

Sample ID: 18D0644-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3		% Wt	1		SM 2540G	4/16/18	4/16/18 19:58	MRL

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Project Location: Greenwich, CT  
 Date Received: 4/13/2018  
 Field Sample #: H27-SB603 (1-2)-1  
 Sample ID: 18D0644-05  
 Sample Matrix: Soil

Sample Description:  
 Sampled: 4/13/2018 14:45

Work Order: 18D0644

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	4/19/18	4/21/18 13:07	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		44.6	30-150					4/21/18 13:07	
Decachlorobiphenyl [2]		46.0	30-150					4/21/18 13:07	
Tetrachloro-m-xylene [1]		47.9	30-150					4/21/18 13:07	
Tetrachloro-m-xylene [2]		44.0	30-150					4/21/18 13:07	

**Sample Extraction Data**

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0644-01 [C11-SB610 (0-0.5)-1]	B200982	30.3	1.00	04/16/18

**Prep Method: SW-846 3510C-CTDEP ETPH**

Leachates were extracted on 4/16/2018 per SW-846 1312 in Batch B201058

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0644-02 [D10-SB611 (6-6.5)-1]	B201315	1030	1.00	04/19/18

**Prep Method: SW-846 3546-MADEP-EPH-04-1.1**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0644-01 [C11-SB610 (0-0.5)-1]	B201021	20.1	2.00	04/16/18

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18D0644-01 [C11-SB610 (0-0.5)-1]	B201057	04/16/18
18D0644-02 [D10-SB611 (6-6.5)-1]	B201057	04/16/18
18D0644-03 [AT27-SB612 (0-0.5)-1]	B201057	04/16/18
18D0644-04 [AV28-SB613 (0-0.5)-1]	B201057	04/16/18
18D0644-05 [H27-SB603 (1-2)-1]	B201057	04/16/18

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0644-05 [H27-SB603 (1-2)-1]	B201069	10.3	10.0	04/16/18

**Prep Method: SW-846 3510C-SW-846 8081B**

Leachates were extracted on 4/16/2018 per SW-846 1312 in Batch B201058

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0644-03 [AT27-SB612 (0-0.5)-1]	B201270	500	5.00	04/19/18
18D0644-04 [AV28-SB613 (0-0.5)-1]	B201270	500	5.00	04/19/18
18D0644-05 [H27-SB603 (1-2)-1]	B201270	500	5.00	04/19/18

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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
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Batch B201069 - SW-846 3546

Blank (B201069-BLK1)

Prepared: 04/16/18 Analyzed: 04/20/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0020	mg/Kg wet							
Aldrin [2C]	ND	0.0020	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0010	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDE	ND	0.0010	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDT	ND	0.0010	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0010	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	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							V-05
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.135		mg/Kg wet	0.200		67.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.140		mg/Kg wet	0.200		69.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.137		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.125		mg/Kg wet	0.200		62.7	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
<b>Batch B201069 - SW-846 3546</b>										
<b>LCS (B201069-BS1)</b>										
					Prepared: 04/16/18 Analyzed: 04/20/18					
alpha-Chlordane	0.067	0.0050	mg/Kg wet	0.100		66.9	40-140			
alpha-Chlordane [2C]	0.068	0.0050	mg/Kg wet	0.100		68.2	40-140			
gamma-Chlordane	0.066	0.0050	mg/Kg wet	0.100		66.5	40-140			
gamma-Chlordane [2C]	0.069	0.0050	mg/Kg wet	0.100		68.8	40-140			
Alachlor	0.075	0.020	mg/Kg wet	0.100		75.4	40-140			
Alachlor [2C]	0.084	0.020	mg/Kg wet	0.100		84.0	40-140			
Aldrin	0.068	0.0020	mg/Kg wet	0.100		68.0	40-140			
Aldrin [2C]	0.068	0.0020	mg/Kg wet	0.100		68.2	40-140			
alpha-BHC	0.067	0.0050	mg/Kg wet	0.100		66.7	40-140			
alpha-BHC [2C]	0.061	0.0050	mg/Kg wet	0.100		60.8	40-140			
beta-BHC	0.064	0.0050	mg/Kg wet	0.100		63.9	40-140			
beta-BHC [2C]	0.059	0.0050	mg/Kg wet	0.100		58.6	40-140			
delta-BHC	0.069	0.0050	mg/Kg wet	0.100		68.9	40-140			
delta-BHC [2C]	0.064	0.0050	mg/Kg wet	0.100		64.4	40-140			
gamma-BHC (Lindane)	0.068	0.0020	mg/Kg wet	0.100		67.5	40-140			
gamma-BHC (Lindane) [2C]	0.065	0.0020	mg/Kg wet	0.100		65.2	40-140			
4,4'-DDD	0.072	0.0010	mg/Kg wet	0.100		71.7	40-140			
4,4'-DDD [2C]	0.074	0.0010	mg/Kg wet	0.100		74.4	40-140			
4,4'-DDE	0.071	0.0010	mg/Kg wet	0.100		71.0	40-140			
4,4'-DDE [2C]	0.073	0.0010	mg/Kg wet	0.100		72.6	40-140			
4,4'-DDT	0.071	0.0010	mg/Kg wet	0.100		70.9	40-140			
4,4'-DDT [2C]	0.068	0.0010	mg/Kg wet	0.100		67.7	40-140			
Dieldrin	0.070	0.0020	mg/Kg wet	0.100		69.5	40-140			
Dieldrin [2C]	0.073	0.0020	mg/Kg wet	0.100		73.0	40-140			
Endosulfan I	0.061	0.0050	mg/Kg wet	0.100		60.7	40-140			
Endosulfan I [2C]	0.064	0.0050	mg/Kg wet	0.100		63.8	40-140			
Endosulfan II	0.065	0.0080	mg/Kg wet	0.100		65.4	40-140			
Endosulfan II [2C]	0.068	0.0080	mg/Kg wet	0.100		67.8	40-140			
Endosulfan Sulfate	0.076	0.0080	mg/Kg wet	0.100		76.4	40-140			
Endosulfan Sulfate [2C]	0.071	0.0080	mg/Kg wet	0.100		70.6	40-140			
Endrin	0.069	0.0080	mg/Kg wet	0.100		69.3	40-140			
Endrin [2C]	0.070	0.0080	mg/Kg wet	0.100		69.5	40-140			
Endrin Aldehyde	0.064	0.0080	mg/Kg wet	0.100		63.7	40-140			
Endrin Aldehyde [2C]	0.072	0.0080	mg/Kg wet	0.100		71.7	40-140			
Endrin Ketone	0.060	0.0080	mg/Kg wet	0.100		59.9	40-140			
Endrin Ketone [2C]	0.060	0.0080	mg/Kg wet	0.100		59.9	40-140			
Heptachlor	0.067	0.0050	mg/Kg wet	0.100		67.0	40-140			
Heptachlor [2C]	0.066	0.0050	mg/Kg wet	0.100		66.4	40-140			
Heptachlor Epoxide	0.066	0.0050	mg/Kg wet	0.100		65.9	40-140			
Heptachlor Epoxide [2C]	0.067	0.0050	mg/Kg wet	0.100		67.3	40-140			
Hexachlorobenzene	0.082	0.0060	mg/Kg wet	0.100		82.5	40-140			
Hexachlorobenzene [2C]	0.070	0.0060	mg/Kg wet	0.100		69.9	40-140			
Methoxychlor	0.071	0.050	mg/Kg wet	0.100		71.4	40-140			
Methoxychlor [2C]	0.082	0.050	mg/Kg wet	0.100		81.8	40-140			V-05
Surrogate: Decachlorobiphenyl	0.142		mg/Kg wet	0.200		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.147		mg/Kg wet	0.200		73.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.134		mg/Kg wet	0.200		67.1	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
<b>Batch B201069 - SW-846 3546</b>										
<b>LCS Dup (B201069-BSD1)</b>										
					Prepared: 04/16/18 Analyzed: 04/20/18					
alpha-Chlordane	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140	18.8	30	
alpha-Chlordane [2C]	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140	18.8	30	
gamma-Chlordane	0.081	0.0050	mg/Kg wet	0.100		81.1	40-140	19.8	30	
gamma-Chlordane [2C]	0.083	0.0050	mg/Kg wet	0.100		83.2	40-140	19.0	30	
Alachlor	0.091	0.020	mg/Kg wet	0.100		91.2	40-140	19.0	30	
Alachlor [2C]	0.10	0.020	mg/Kg wet	0.100		102	40-140	19.6	30	
Aldrin	0.083	0.0020	mg/Kg wet	0.100		82.8	40-140	19.7	30	
Aldrin [2C]	0.082	0.0020	mg/Kg wet	0.100		82.2	40-140	18.7	30	
alpha-BHC	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140	19.4	30	
alpha-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		73.1	40-140	18.3	30	
beta-BHC	0.077	0.0050	mg/Kg wet	0.100		76.9	40-140	18.4	30	
beta-BHC [2C]	0.069	0.0050	mg/Kg wet	0.100		69.3	40-140	16.7	30	
delta-BHC	0.085	0.0050	mg/Kg wet	0.100		84.9	40-140	20.9	30	
delta-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	18.2	30	
gamma-BHC (Lindane)	0.082	0.0020	mg/Kg wet	0.100		81.8	40-140	19.1	30	
gamma-BHC (Lindane) [2C]	0.078	0.0020	mg/Kg wet	0.100		77.8	40-140	17.7	30	
4,4'-DDD	0.086	0.0010	mg/Kg wet	0.100		86.5	40-140	18.7	30	
4,4'-DDD [2C]	0.090	0.0010	mg/Kg wet	0.100		89.9	40-140	18.9	30	
4,4'-DDE	0.086	0.0010	mg/Kg wet	0.100		86.1	40-140	19.3	30	
4,4'-DDE [2C]	0.088	0.0010	mg/Kg wet	0.100		88.5	40-140	19.7	30	
4,4'-DDT	0.086	0.0010	mg/Kg wet	0.100		85.7	40-140	18.9	30	
4,4'-DDT [2C]	0.082	0.0010	mg/Kg wet	0.100		81.9	40-140	18.9	30	
Dieldrin	0.084	0.0020	mg/Kg wet	0.100		84.4	40-140	19.3	30	
Dieldrin [2C]	0.088	0.0020	mg/Kg wet	0.100		88.1	40-140	18.7	30	
Endosulfan I	0.074	0.0050	mg/Kg wet	0.100		73.7	40-140	19.4	30	
Endosulfan I [2C]	0.077	0.0050	mg/Kg wet	0.100		76.8	40-140	18.4	30	
Endosulfan II	0.079	0.0080	mg/Kg wet	0.100		78.9	40-140	18.8	30	
Endosulfan II [2C]	0.082	0.0080	mg/Kg wet	0.100		81.8	40-140	18.7	30	
Endosulfan Sulfate	0.092	0.0080	mg/Kg wet	0.100		92.0	40-140	18.6	30	
Endosulfan Sulfate [2C]	0.085	0.0080	mg/Kg wet	0.100		85.0	40-140	18.5	30	
Endrin	0.084	0.0080	mg/Kg wet	0.100		84.0	40-140	19.2	30	
Endrin [2C]	0.084	0.0080	mg/Kg wet	0.100		83.8	40-140	18.7	30	
Endrin Aldehyde	0.072	0.0080	mg/Kg wet	0.100		72.1	40-140	12.4	30	
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.8	40-140	18.0	30	
Endrin Ketone	0.072	0.0080	mg/Kg wet	0.100		72.1	40-140	18.4	30	
Endrin Ketone [2C]	0.072	0.0080	mg/Kg wet	0.100		71.7	40-140	18.0	30	
Heptachlor	0.081	0.0050	mg/Kg wet	0.100		81.3	40-140	19.4	30	
Heptachlor [2C]	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140	17.8	30	
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		80.0	40-140	19.3	30	
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		80.9	40-140	18.5	30	
Hexachlorobenzene	0.10	0.0060	mg/Kg wet	0.100		102	40-140	21.5	30	
Hexachlorobenzene [2C]	0.085	0.0060	mg/Kg wet	0.100		84.6	40-140	19.0	30	
Methoxychlor	0.086	0.050	mg/Kg wet	0.100		86.4	40-140	18.9	30	
Methoxychlor [2C]	0.096	0.050	mg/Kg wet	0.100		96.4	40-140	16.5	30	V-05
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		82.1	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
<b>Batch B200982 - SW-846 3546</b>										
<b>Blank (B200982-BLK1)</b>					Prepared: 04/16/18 Analyzed: 04/17/18					
CT ETPH	ND	9.8	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.26		mg/Kg wet	3.31		68.3	50-150			
<b>LCS (B200982-BS1)</b>					Prepared: 04/16/18 Analyzed: 04/17/18					
CT ETPH	22.4	9.8	mg/Kg wet	32.7		68.4	60-120			
Surrogate: 2-Fluorobiphenyl	2.85		mg/Kg wet	3.33		85.5	50-150			
<b>LCS Dup (B200982-BSD1)</b>					Prepared: 04/16/18 Analyzed: 04/17/18					
CT ETPH	20.9	9.9	mg/Kg wet	33.0		63.2	60-120	6.93	30	
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.37		74.4	50-150			
<b>Matrix Spike (B200982-MS1)</b>					Source: 18D0644-01 Prepared: 04/16/18 Analyzed: 04/18/18					
CT ETPH	82.6	12	mg/Kg dry	39.5	35.7	119	50-150			MS-23
Surrogate: 2-Fluorobiphenyl	2.66		mg/Kg dry	4.03		66.1	50-150			
<b>Matrix Spike Dup (B200982-MSD1)</b>					Source: 18D0644-01 Prepared: 04/16/18 Analyzed: 04/19/18					
CT ETPH	221	59	mg/Kg dry	39.6	35.7	468 *	50-150	91.2 *	30	MS-23
Surrogate: 2-Fluorobiphenyl	2.10		mg/Kg dry	4.04		52.0	50-150			

**QUALITY CONTROL**

**Petroleum Hydrocarbons Analyses - EPH - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B201021 - SW-846 3546**

**Blank (B201021-BLK1)**

Prepared: 04/16/18 Analyzed: 04/17/18

C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
n-Decane	ND	0.10	mg/Kg wet							
n-Docosane	ND	0.10	mg/Kg wet							
n-Dodecane	ND	0.10	mg/Kg wet							
n-Eicosane	ND	0.10	mg/Kg wet							
n-Hexacosane	ND	0.10	mg/Kg wet							
n-Hexadecane	ND	0.10	mg/Kg wet							
n-Hexatriacontane	ND	0.10	mg/Kg wet							
n-Nonadecane	ND	0.10	mg/Kg wet							
n-Nonane	ND	0.10	mg/Kg wet							
n-Octacosane	ND	0.10	mg/Kg wet							
n-Octadecane	ND	0.10	mg/Kg wet							
n-Tetracosane	ND	0.10	mg/Kg wet							
n-Tetradecane	ND	0.10	mg/Kg wet							
n-Triacontane	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	3.73		mg/Kg wet	5.00		74.6	40-140			
Surrogate: o-Terphenyl (OTP)	4.28		mg/Kg wet	5.00		85.5	40-140			
Surrogate: 2-Bromonaphthalene	4.59		mg/Kg wet	5.02		91.5	40-140			
Surrogate: 2-Fluorobiphenyl	4.51		mg/Kg wet	5.03		89.6	40-140			

**LCS (B201021-BS1)**

Prepared: 04/16/18 Analyzed: 04/17/18

C9-C18 Aliphatics	21.4	10	mg/Kg wet	30.0		71.3	40-140			
C19-C36 Aliphatics	32.7	10	mg/Kg wet	40.0		81.7	40-140			
Acenaphthene	3.81	0.10	mg/Kg wet	5.00		76.3	40-140			
Acenaphthylene	3.73	0.10	mg/Kg wet	5.00		74.6	40-140			
Anthracene	4.02	0.10	mg/Kg wet	5.00		80.4	40-140			
Benzo(a)anthracene	3.99	0.10	mg/Kg wet	5.00		79.9	40-140			
Benzo(a)pyrene	3.84	0.10	mg/Kg wet	5.00		76.9	40-140			
Benzo(b)fluoranthene	3.89	0.10	mg/Kg wet	5.00		77.7	40-140			
Benzo(g,h,i)perylene	3.85	0.10	mg/Kg wet	5.00		77.0	40-140			

**QUALITY CONTROL**

**Petroleum Hydrocarbons Analyses - EPH - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B201021 - SW-846 3546**

**LCS (B201021-BS1)**

Prepared: 04/16/18 Analyzed: 04/17/18

Benzo(k)fluoranthene	3.87	0.10	mg/Kg wet	5.00		77.4	40-140			
Chrysene	4.01	0.10	mg/Kg wet	5.00		80.2	40-140			
Dibenz(a,h)anthracene	4.01	0.10	mg/Kg wet	5.00		80.2	40-140			
Fluoranthene	4.01	0.10	mg/Kg wet	5.00		80.1	40-140			
Fluorene	3.92	0.10	mg/Kg wet	5.00		78.4	40-140			
Indeno(1,2,3-cd)pyrene	3.67	0.10	mg/Kg wet	5.00		73.3	40-140			
2-Methylnaphthalene	3.97	0.10	mg/Kg wet	5.00		79.5	40-140			
Naphthalene	3.48	0.10	mg/Kg wet	5.00		69.5	40-140			
Phenanthrene	4.02	0.10	mg/Kg wet	5.00		80.4	40-140			
Pyrene	4.02	0.10	mg/Kg wet	5.00		80.4	40-140			
n-Decane	2.72	0.10	mg/Kg wet	5.00		54.4	40-140			
n-Docosane	3.63	0.10	mg/Kg wet	5.00		72.5	40-140			
n-Dodecane	3.17	0.10	mg/Kg wet	5.00		63.4	40-140			
n-Eicosane	3.59	0.10	mg/Kg wet	5.00		71.8	40-140			
n-Hexacosane	3.53	0.10	mg/Kg wet	5.00		70.7	40-140			
n-Hexadecane	3.62	0.10	mg/Kg wet	5.00		72.4	40-140			
n-Hexatriacontane	3.30	0.10	mg/Kg wet	5.00		65.9	40-140			
n-Nonadecane	3.63	0.10	mg/Kg wet	5.00		72.6	40-140			
n-Nonane	2.06	0.10	mg/Kg wet	5.00		41.2	30-140			
n-Octacosane	3.45	0.10	mg/Kg wet	5.00		69.0	40-140			
n-Octadecane	3.77	0.10	mg/Kg wet	5.00		75.4	40-140			
n-Tetracosane	3.56	0.10	mg/Kg wet	5.00		71.3	40-140			
n-Tetradecane	3.47	0.10	mg/Kg wet	5.00		69.4	40-140			
n-Triacontane	3.37	0.10	mg/Kg wet	5.00		67.3	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	3.65		mg/Kg wet	5.00		73.1	40-140			
Surrogate: o-Terphenyl (OTP)	3.98		mg/Kg wet	5.00		79.7	40-140			
Surrogate: 2-Bromonaphthalene	4.48		mg/Kg wet	5.02		89.1	40-140			
Surrogate: 2-Fluorobiphenyl	4.65		mg/Kg wet	5.03		92.5	40-140			

**LCS Dup (B201021-BS1)**

Prepared: 04/16/18 Analyzed: 04/17/18

C9-C18 Aliphatics	21.8	10	mg/Kg wet	30.0		72.5	40-140	1.67	25	
C19-C36 Aliphatics	33.1	10	mg/Kg wet	40.0		82.6	40-140	1.16	25	
Acenaphthene	3.85	0.10	mg/Kg wet	5.00		77.1	40-140	1.06	25	
Acenaphthylene	3.77	0.10	mg/Kg wet	5.00		75.3	40-140	0.894	25	
Anthracene	4.15	0.10	mg/Kg wet	5.00		83.0	40-140	3.29	25	
Benzo(a)anthracene	4.16	0.10	mg/Kg wet	5.00		83.3	40-140	4.12	25	
Benzo(a)pyrene	4.01	0.10	mg/Kg wet	5.00		80.3	40-140	4.32	25	
Benzo(b)fluoranthene	4.03	0.10	mg/Kg wet	5.00		80.6	40-140	3.61	25	
Benzo(g,h,i)perylene	4.04	0.10	mg/Kg wet	5.00		80.9	40-140	4.98	25	
Benzo(k)fluoranthene	4.06	0.10	mg/Kg wet	5.00		81.2	40-140	4.84	25	
Chrysene	4.21	0.10	mg/Kg wet	5.00		84.1	40-140	4.76	25	
Dibenz(a,h)anthracene	4.21	0.10	mg/Kg wet	5.00		84.1	40-140	4.79	25	
Fluoranthene	4.15	0.10	mg/Kg wet	5.00		83.0	40-140	3.53	25	
Fluorene	4.00	0.10	mg/Kg wet	5.00		80.0	40-140	2.04	25	
Indeno(1,2,3-cd)pyrene	3.80	0.10	mg/Kg wet	5.00		76.1	40-140	3.71	25	
2-Methylnaphthalene	3.96	0.10	mg/Kg wet	5.00		79.2	40-140	0.353	25	
Naphthalene	3.49	0.10	mg/Kg wet	5.00		69.8	40-140	0.408	25	
Phenanthrene	4.15	0.10	mg/Kg wet	5.00		82.9	40-140	3.03	25	
Pyrene	4.17	0.10	mg/Kg wet	5.00		83.5	40-140	3.68	25	
n-Decane	2.70	0.10	mg/Kg wet	5.00		53.9	40-140	0.879	25	

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**QUALITY CONTROL**

**Petroleum Hydrocarbons Analyses - EPH - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B201021 - SW-846 3546</b>										
<b>LCS Dup (B201021-BSD1)</b>										
					Prepared: 04/16/18 Analyzed: 04/17/18					
n-Docosane	3.67	0.10	mg/Kg wet	5.00		73.4	40-140	1.21	25	
n-Dodecane	3.12	0.10	mg/Kg wet	5.00		62.3	40-140	1.73	25	
n-Eicosane	3.63	0.10	mg/Kg wet	5.00		72.7	40-140	1.22	25	
n-Hexacosane	3.56	0.10	mg/Kg wet	5.00		71.2	40-140	0.761	25	
n-Hexadecane	3.67	0.10	mg/Kg wet	5.00		73.4	40-140	1.45	25	
n-Hexatriacontane	3.35	0.10	mg/Kg wet	5.00		67.0	40-140	1.61	25	
n-Nonadecane	3.68	0.10	mg/Kg wet	5.00		73.7	40-140	1.52	25	
n-Nonane	2.07	0.10	mg/Kg wet	5.00		41.4	30-140	0.455	25	
n-Octacosane	3.48	0.10	mg/Kg wet	5.00		69.5	40-140	0.820	25	
n-Octadecane	3.84	0.10	mg/Kg wet	5.00		76.8	40-140	1.91	25	
n-Tetracosane	3.60	0.10	mg/Kg wet	5.00		72.0	40-140	0.927	25	
n-Tetradecane	3.47	0.10	mg/Kg wet	5.00		69.3	40-140	0.112	25	
n-Triacontane	3.39	0.10	mg/Kg wet	5.00		67.7	40-140	0.634	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	3.70		mg/Kg wet	5.00		73.9	40-140			
Surrogate: o-Terphenyl (OTP)	4.07		mg/Kg wet	5.00		81.3	40-140			
Surrogate: 2-Bromonaphthalene	4.38		mg/Kg wet	5.02		87.2	40-140			
Surrogate: 2-Fluorobiphenyl	4.57		mg/Kg wet	5.03		90.9	40-140			

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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
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**Batch B201057 - % Solids**

**Duplicate (B201057-DUP5)**

**Source: 18D0644-05**

Prepared & Analyzed: 04/16/18

% Solids	82.4		% Wt		81.3			1.42	20	
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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B201270 - SW-846 3510C

Blank (B201270-BLK1)

Prepared: 04/19/18 Analyzed: 04/21/18

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.75		µg/L	2.00		87.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.80		µg/L	2.00		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.69		µg/L	2.00		84.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.57		µg/L	2.00		78.5	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B201270 - SW-846 3510C</b>										
<b>LCS (B201270-BS1)</b>										
Prepared: 04/19/18 Analyzed: 04/21/18										
Alachlor	0.93	0.20	µg/L	1.00		93.4	40-140			
Alachlor [2C]	0.95	0.20	µg/L	1.00		94.6	40-140			
Aldrin	0.80	0.050	µg/L	1.00		79.8	40-140			
Aldrin [2C]	0.82	0.050	µg/L	1.00		82.4	40-140			
alpha-BHC	0.87	0.050	µg/L	1.00		87.3	40-140			
alpha-BHC [2C]	0.83	0.050	µg/L	1.00		83.1	40-140			
beta-BHC	0.82	0.050	µg/L	1.00		82.3	40-140			
beta-BHC [2C]	0.76	0.050	µg/L	1.00		75.8	40-140			
delta-BHC	0.95	0.050	µg/L	1.00		94.6	40-140			
delta-BHC [2C]	0.84	0.050	µg/L	1.00		84.0	40-140			
gamma-BHC (Lindane)	0.89	0.030	µg/L	1.00		88.6	40-140			
gamma-BHC (Lindane) [2C]	0.85	0.030	µg/L	1.00		85.3	40-140			
4,4'-DDD	0.88	0.040	µg/L	1.00		87.5	40-140			
4,4'-DDD [2C]	0.90	0.040	µg/L	1.00		90.5	40-140			
4,4'-DDE	0.87	0.040	µg/L	1.00		86.6	40-140			
4,4'-DDE [2C]	0.89	0.040	µg/L	1.00		88.8	40-140			
4,4'-DDT	0.88	0.040	µg/L	1.00		87.8	40-140			
4,4'-DDT [2C]	0.89	0.040	µg/L	1.00		88.7	40-140			
Dieldrin	0.86	0.0020	µg/L	1.00		85.9	40-140			
Dieldrin [2C]	0.88	0.0020	µg/L	1.00		88.3	40-140			
Endosulfan I	0.84	0.050	µg/L	1.00		83.9	40-140			
Endosulfan I [2C]	0.86	0.050	µg/L	1.00		85.8	40-140			
Endosulfan II	0.85	0.080	µg/L	1.00		85.4	40-140			
Endosulfan II [2C]	0.88	0.080	µg/L	1.00		87.6	40-140			
Endosulfan Sulfate	0.86	0.080	µg/L	1.00		85.6	40-140			
Endosulfan Sulfate [2C]	0.87	0.080	µg/L	1.00		87.3	40-140			
Endrin	0.85	0.080	µg/L	1.00		85.5	40-140			
Endrin [2C]	0.86	0.080	µg/L	1.00		85.9	40-140			
Endrin Aldehyde	0.86	0.080	µg/L	1.00		86.5	40-140			
Endrin Aldehyde [2C]	0.89	0.080	µg/L	1.00		89.4	40-140			
Endrin Ketone	0.73	0.080	µg/L	1.00		73.0	40-140			
Endrin Ketone [2C]	0.74	0.080	µg/L	1.00		74.4	40-140			
Heptachlor	0.82	0.050	µg/L	1.00		82.4	40-140			
Heptachlor [2C]	0.80	0.050	µg/L	1.00		80.1	40-140			
Heptachlor Epoxide	0.82	0.050	µg/L	1.00		82.5	40-140			
Heptachlor Epoxide [2C]	0.82	0.050	µg/L	1.00		82.4	40-140			
Hexachlorobenzene	1.1	0.050	µg/L	1.00		105	40-140			
Hexachlorobenzene [2C]	0.89	0.050	µg/L	1.00		89.2	40-140			
Methoxychlor	0.89	0.50	µg/L	1.00		88.7	40-140			
Methoxychlor [2C]	0.92	0.50	µg/L	1.00		91.6	40-140			
Surrogate: Decachlorobiphenyl	1.81		µg/L	2.00		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.88		µg/L	2.00		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.82		µg/L	2.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.74		µg/L	2.00		87.2	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B201270 - SW-846 3510C</b>										
<b>LCS Dup (B201270-BSD1)</b>										
					Prepared: 04/19/18 Analyzed: 04/21/18					
Alachlor	0.91	0.20	µg/L	1.00		90.8	40-140	2.76		
Alachlor [2C]	0.94	0.20	µg/L	1.00		94.4	40-140	0.251		
Aldrin	0.82	0.050	µg/L	1.00		81.7	40-140	2.28		
Aldrin [2C]	0.84	0.050	µg/L	1.00		84.4	40-140	2.35		
alpha-BHC	0.87	0.050	µg/L	1.00		87.1	40-140	0.239		
alpha-BHC [2C]	0.84	0.050	µg/L	1.00		83.6	40-140	0.609		
beta-BHC	0.81	0.050	µg/L	1.00		80.9	40-140	1.72		
beta-BHC [2C]	0.73	0.050	µg/L	1.00		73.4	40-140	3.24		
delta-BHC	0.93	0.050	µg/L	1.00		92.7	40-140	2.07		
delta-BHC [2C]	0.84	0.050	µg/L	1.00		84.3	40-140	0.257		
gamma-BHC (Lindane)	0.88	0.030	µg/L	1.00		88.1	40-140	0.494		
gamma-BHC (Lindane) [2C]	0.86	0.030	µg/L	1.00		85.6	40-140	0.336		
4,4'-DDD	0.87	0.040	µg/L	1.00		87.2	40-140	0.325		
4,4'-DDD [2C]	0.90	0.040	µg/L	1.00		90.1	40-140	0.430		
4,4'-DDE	0.86	0.040	µg/L	1.00		86.4	40-140	0.297		
4,4'-DDE [2C]	0.89	0.040	µg/L	1.00		88.7	40-140	0.0462		
4,4'-DDT	0.86	0.040	µg/L	1.00		86.2	40-140	1.82		
4,4'-DDT [2C]	0.88	0.040	µg/L	1.00		87.8	40-140	0.956		
Dieldrin	0.85	0.0020	µg/L	1.00		85.4	40-140	0.625		
Dieldrin [2C]	0.88	0.0020	µg/L	1.00		87.9	40-140	0.434		
Endosulfan I	0.83	0.050	µg/L	1.00		83.2	40-140	0.796		
Endosulfan I [2C]	0.86	0.050	µg/L	1.00		85.7	40-140	0.0945		
Endosulfan II	0.85	0.080	µg/L	1.00		84.9	40-140	0.600		
Endosulfan II [2C]	0.87	0.080	µg/L	1.00		87.1	40-140	0.546		
Endosulfan Sulfate	0.85	0.080	µg/L	1.00		85.0	40-140	0.761		
Endosulfan Sulfate [2C]	0.87	0.080	µg/L	1.00		86.8	40-140	0.568		
Endrin	0.85	0.080	µg/L	1.00		84.7	40-140	0.902		
Endrin [2C]	0.85	0.080	µg/L	1.00		85.5	40-140	0.571		
Endrin Aldehyde	0.86	0.080	µg/L	1.00		85.6	40-140	0.969		
Endrin Aldehyde [2C]	0.88	0.080	µg/L	1.00		88.3	40-140	1.30		
Endrin Ketone	0.73	0.080	µg/L	1.00		72.6	40-140	0.640		
Endrin Ketone [2C]	0.74	0.080	µg/L	1.00		74.3	40-140	0.0686		
Heptachlor	0.83	0.050	µg/L	1.00		82.6	40-140	0.313		
Heptachlor [2C]	0.82	0.050	µg/L	1.00		82.1	40-140	2.50		
Heptachlor Epoxide	0.82	0.050	µg/L	1.00		82.1	40-140	0.501		
Heptachlor Epoxide [2C]	0.83	0.050	µg/L	1.00		82.6	40-140	0.292		
Hexachlorobenzene	1.1	0.050	µg/L	1.00		106	40-140	0.306	30	
Hexachlorobenzene [2C]	0.90	0.050	µg/L	1.00		90.0	40-140	0.889	30	
Methoxychlor	0.88	0.50	µg/L	1.00		87.8	40-140	0.939		
Methoxychlor [2C]	0.91	0.50	µg/L	1.00		90.8	40-140	0.922		
Surrogate: Decachlorobiphenyl	1.68		µg/L	2.00		84.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.73		µg/L	2.00		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.82		µg/L	2.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.77		µg/L	2.00		88.6	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B201270 - SW-846 3510C</b>										
<b>Matrix Spike (B201270-MS1)</b>	<b>Source: 18D0644-03</b>			Prepared: 04/19/18 Analyzed: 04/21/18						
Alachlor	0.98	0.20	µg/L	1.00	ND	97.8	30-150			
Alachlor [2C]	0.93	0.20	µg/L	1.00	ND	92.6	30-150			
Aldrin	0.76	0.050	µg/L	1.00	ND	76.1	30-150			
Aldrin [2C]	0.78	0.050	µg/L	1.00	ND	78.3	30-150			
alpha-BHC	0.81	0.050	µg/L	1.00	ND	81.5	30-150			
alpha-BHC [2C]	0.73	0.050	µg/L	1.00	ND	73.2	30-150			
beta-BHC	0.78	0.050	µg/L	1.00	ND	77.8	30-150			
beta-BHC [2C]	0.94	0.050	µg/L	1.00	ND	93.8	30-150			
delta-BHC	1.0	0.050	µg/L	1.00	ND	100	30-150			
delta-BHC [2C]	0.75	0.050	µg/L	1.00	ND	75.2	30-150			
gamma-BHC (Lindane)	0.82	0.030	µg/L	1.00	ND	82.3	30-150			
gamma-BHC (Lindane) [2C]	0.74	0.030	µg/L	1.00	ND	74.2	30-150			
4,4'-DDD	0.88	0.040	µg/L	1.00	ND	88.3	30-150			
4,4'-DDD [2C]	0.80	0.040	µg/L	1.00	ND	80.2	30-150			
4,4'-DDE	0.76	0.040	µg/L	1.00	ND	76.1	30-150			
4,4'-DDE [2C]	0.81	0.040	µg/L	1.00	ND	81.4	30-150			
4,4'-DDT	0.76	0.040	µg/L	1.00	ND	75.6	30-150			
4,4'-DDT [2C]	0.76	0.040	µg/L	1.00	ND	75.7	30-150			
Dieldrin	0.82	0.0020	µg/L	1.00	ND	82.3	30-150			
Dieldrin [2C]	0.84	0.0020	µg/L	1.00	ND	84.3	30-150			
Endosulfan I	0.80	0.050	µg/L	1.00	ND	79.8	30-150			
Endosulfan I [2C]	0.83	0.050	µg/L	1.00	ND	83.1	30-150			
Endosulfan II	0.83	0.080	µg/L	1.00	ND	83.4	30-150			
Endosulfan II [2C]	0.81	0.080	µg/L	1.00	ND	81.0	30-150			
Endosulfan Sulfate	0.80	0.080	µg/L	1.00	ND	80.0	30-150			
Endosulfan Sulfate [2C]	0.79	0.080	µg/L	1.00	ND	78.6	30-150			
Endrin	0.83	0.080	µg/L	1.00	ND	83.0	30-150			
Endrin [2C]	0.81	0.080	µg/L	1.00	ND	81.2	30-150			
Endrin Aldehyde	0.74	0.080	µg/L	1.00	ND	74.2	30-150			
Endrin Aldehyde [2C]	0.83	0.080	µg/L	1.00	ND	83.2	30-150			
Endrin Ketone	0.67	0.080	µg/L	1.00	ND	66.9	30-150			
Endrin Ketone [2C]	0.68	0.080	µg/L	1.00	ND	67.6	30-150			
Heptachlor	0.82	0.050	µg/L	1.00	ND	82.3	30-150			
Heptachlor [2C]	0.82	0.050	µg/L	1.00	ND	82.0	30-150			
Heptachlor Epoxide	0.80	0.050	µg/L	1.00	ND	79.5	30-150			
Heptachlor Epoxide [2C]	0.77	0.050	µg/L	1.00	ND	76.8	30-150			
Hexachlorobenzene	1.0	0.050	µg/L	1.00	ND	104	30-150			
Hexachlorobenzene [2C]	0.81	0.050	µg/L	1.00	ND	81.4	30-150			
Methoxychlor	0.82	0.50	µg/L	1.00	ND	82.2	30-150			
Methoxychlor [2C]	0.88	0.50	µg/L	1.00	ND	88.2	30-150			
Surrogate: Decachlorobiphenyl	1.21		µg/L	2.00		60.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.22		µg/L	2.00		60.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.73		µg/L	2.00		86.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.56		µg/L	2.00		77.9	30-150			

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**QUALITY CONTROL**

**SPLP - Semivolatile Organic Compounds by GC - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B201315 - SW-846 3510C</b>										
<b>Blank (B201315-BLK1)</b>										
					Prepared: 04/19/18 Analyzed: 04/20/18					
CT ETPH	ND	0.073	mg/L							
Surrogate: 2-Fluorobiphenyl	0.0757		mg/L	0.0971		77.9	50-150			
<b>LCS (B201315-BS1)</b>										
					Prepared: 04/19/18 Analyzed: 04/20/18					
CT ETPH	0.594	0.075	mg/L	1.00		<b>59.4</b> *	60-120			L-07
Surrogate: 2-Fluorobiphenyl	0.0727		mg/L	0.100		72.7	50-150			
<b>LCS Dup (B201315-BSD1)</b>										
					Prepared: 04/19/18 Analyzed: 04/20/18					
CT ETPH	0.607	0.075	mg/L	1.00		60.7	60-120	2.29	30	
Surrogate: 2-Fluorobiphenyl	0.0726		mg/L	0.100		72.6	50-150			

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## BREAKDOWN REPORT

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**Lab Sample ID:** S022340-PEM1 **Analyzed:** 04/20/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 5.33  
Endrin [1] 8.52

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 5.21  
Endrin [2] 8.43

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## BREAKDOWN REPORT

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**Lab Sample ID:** S022340-PEM2 **Analyzed:** 04/21/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 5.89  
Endrin [1] 6.85

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 5.79  
Endrin [2] 6.55

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## BREAKDOWN REPORT

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**Lab Sample ID:** S022340-PEM3 **Analyzed:** 04/21/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 5.25  
Endrin [1] 5.67

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## BREAKDOWN REPORT

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**Lab Sample ID:** S022340-PEM3 **Analyzed:** 04/21/2018

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 5.19  
Endrin [2] 5.41

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## BREAKDOWN REPORT

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**Lab Sample ID:** S022340-PEM4 **Analyzed:** 04/21/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 7.46  
Endrin [1] 9.19

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 7.47  
Endrin [2] 9.07

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## BREAKDOWN REPORT

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**Lab Sample ID:** S022340-PEM5 **Analyzed:** 04/22/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 11.18  
Endrin [1] 12.42

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 11.21  
Endrin [2] 12.74

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

H27-SB603 (1-2)-1

*SW-846 8081B*

Lab Sample ID: 18D0644-05 Date(s) Analyzed 04/21/2018 04/21/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.330	7.301	7.361	0.0050	
	2	7.338	7.309	7.369	0.0053	5.8
4,4'-DDE	1	6.884	6.855	6.915	0.0088	
	2	6.904	6.875	6.935	0.011	21.1
Chlordane	1	0.000	-0.030	0.030	0.024	
	2	0.000	-0.030	0.030	0.026	3.9

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

<b>LCS</b>
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Lab Sample ID:                     B201069-BS1                          Date(s) Analyzed           04/20/2018                     04/20/2018            
 Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.331	7.302	7.362	0.072	
	2	7.339	7.310	7.370	0.074	2.7
4,4'-DDE	1	6.885	6.856	6.916	0.071	
	2	6.905	6.876	6.936	0.073	2.8
4,4'-DDT	1	7.544	7.516	7.576	0.071	
	2	7.579	7.550	7.610	0.068	4.3
Alachlor	1	6.315	6.285	6.345	0.075	
	2	6.081	6.051	6.111	0.084	11.3
Aldrin	1	6.221	6.191	6.251	0.068	
	2	6.144	6.113	6.173	0.068	0.0
alpha-BHC	1	5.500	5.470	5.530	0.067	
	2	5.433	5.402	5.462	0.061	9.4
alpha-Chlordane	1	6.831	6.802	6.862	0.067	
	2	6.777	6.747	6.807	0.068	1.5
beta-BHC	1	5.757	5.727	5.787	0.064	
	2	5.703	5.672	5.732	0.059	8.1
delta-BHC	1	5.874	5.844	5.904	0.069	
	2	5.890	5.860	5.920	0.064	7.5
Dieldrin	1	7.108	7.079	7.139	0.070	
	2	7.016	6.987	7.047	0.073	4.2
Endosulfan I	1	6.932	6.902	6.962	0.061	
	2	6.816	6.787	6.847	0.064	4.8
Endosulfan II	1	7.451	7.422	7.482	0.065	
	2	7.403	7.375	7.435	0.068	4.5
Endosulfan Sulfate	1	8.100	8.072	8.132	0.076	
	2	7.884	7.855	7.915	0.071	6.8
Endrin	1	7.282	7.253	7.313	0.069	
	2	7.242	7.213	7.273	0.070	1.4
Endrin Aldehyde	1	7.775	7.746	7.806	0.064	
	2	7.666	7.637	7.697	0.072	11.8
Endrin Ketone	1	8.289	8.260	8.320	0.060	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8081B*

Lab Sample ID:                     B201069-BS1                                          Date(s) Analyzed           04/20/2018                     04/20/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.255	8.227	8.287	0.060	0.0
gamma-BHC (Lindane)	1	5.702	5.673	5.733	0.068	
	2	5.650	5.620	5.680	0.065	4.5
gamma-Chlordane	1	6.734	6.705	6.765	0.066	
	2	6.672	6.642	6.702	0.069	2.9
Heptachlor	1	6.015	5.986	6.046	0.067	
	2	5.931	5.901	5.961	0.066	1.5
Heptachlor Epoxide	1	6.646	6.616	6.676	0.066	
	2	6.538	6.508	6.568	0.067	1.5
Hexachlorobenzene	1	5.393	5.364	5.424	0.082	
	2	5.347	5.316	5.376	0.070	17.0
Methoxychlor	1	7.922	7.893	7.953	0.071	
	2	8.110	8.082	8.142	0.082	14.4



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**LCS Dup**

Lab Sample ID: B201069-BSD1 Date(s) Analyzed 04/20/2018 04/20/2018  
 Instrument ID (1): ECD6 Instrument ID (2): ECD6  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.256	8.227	8.287	0.072	0.0
gamma-BHC (Lindane)	1	5.701	5.673	5.733	0.082	
	2	5.649	5.620	5.680	0.078	5.0
gamma-Chlordane	1	6.734	6.705	6.765	0.081	
	2	6.671	6.642	6.702	0.083	2.4
Heptachlor	1	6.015	5.986	6.046	0.081	
	2	5.930	5.901	5.961	0.079	2.5
Heptachlor Epoxide	1	6.645	6.616	6.676	0.080	
	2	6.537	6.508	6.568	0.081	1.2
Hexachlorobenzene	1	5.393	5.364	5.424	0.10	
	2	5.345	5.316	5.376	0.085	16.2
Methoxychlor	1	7.922	7.893	7.953	0.086	
	2	8.111	8.082	8.142	0.096	11.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

<b>LCS</b>
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Lab Sample ID:                     B201270-BS1                          Date(s) Analyzed           04/21/2018                     04/21/2018          

Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                    

GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.330	0.000	0.000	0.88	
	2	7.338	0.000	0.000	0.90	2.3
4,4'-DDE	1	6.884	0.000	0.000	0.87	
	2	6.903	0.000	0.000	0.89	2.3
4,4'-DDT	1	7.544	0.000	0.000	0.88	
	2	7.578	0.000	0.000	0.89	1.1
Alachlor	1	6.313	0.000	0.000	0.93	
	2	6.079	0.000	0.000	0.95	2.1
Aldrin	1	6.219	0.000	0.000	0.80	
	2	6.141	0.000	0.000	0.82	2.5
alpha-BHC	1	5.499	0.000	0.000	0.87	
	2	5.431	0.000	0.000	0.83	4.7
beta-BHC	1	5.755	0.000	0.000	0.82	
	2	5.701	0.000	0.000	0.76	7.6
delta-BHC	1	5.873	0.000	0.000	0.95	
	2	5.888	0.000	0.000	0.84	12.3
Dieldrin	1	7.107	0.000	0.000	0.86	
	2	7.015	0.000	0.000	0.88	2.3
Endosulfan I	1	6.930	0.000	0.000	0.84	
	2	6.814	0.000	0.000	0.86	2.4
Endosulfan II	1	7.450	0.000	0.000	0.85	
	2	7.402	0.000	0.000	0.88	3.5
Endosulfan Sulfate	1	8.099	0.000	0.000	0.86	
	2	7.883	0.000	0.000	0.87	1.2
Endrin	1	7.281	0.000	0.000	0.85	
	2	7.240	0.000	0.000	0.86	0.0
Endrin Aldehyde	1	7.774	0.000	0.000	0.86	
	2	7.664	0.000	0.000	0.89	2.3
Endrin Ketone	1	8.288	0.000	0.000	0.73	
	2	8.255	0.000	0.000	0.74	1.4
gamma-BHC (Lindane)	1	5.701	0.000	0.000	0.89	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

LCS
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Lab Sample ID: B201270-BS1 Date(s) Analyzed 04/21/2018 04/21/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.648	0.000	0.000	0.85	4.6
Heptachlor	1	6.014	0.000	0.000	0.82	
	2	5.929	0.000	0.000	0.80	2.5
Heptachlor Epoxide	1	6.645	0.000	0.000	0.82	
	2	6.536	0.000	0.000	0.82	1.2
Hexachlorobenzene	1	5.392	0.000	0.000	1.1	
	2	5.345	0.000	0.000	0.89	21.1
Methoxychlor	1	7.921	0.000	0.000	0.89	
	2	8.110	0.000	0.000	0.92	3.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**LCS Dup**

Lab Sample ID:                     B201270-BSD1                          Date(s) Analyzed           04/21/2018                     04/21/2018            
 Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.330	0.000	0.000	0.87	
	2	7.338	0.000	0.000	0.90	3.4
4,4'-DDE	1	6.883	0.000	0.000	0.86	
	2	6.904	0.000	0.000	0.89	3.4
4,4'-DDT	1	7.543	0.000	0.000	0.86	
	2	7.579	0.000	0.000	0.88	2.3
Alachlor	1	6.313	0.000	0.000	0.91	
	2	6.079	0.000	0.000	0.94	3.2
Aldrin	1	6.220	0.000	0.000	0.82	
	2	6.142	0.000	0.000	0.84	2.4
alpha-BHC	1	5.499	0.000	0.000	0.87	
	2	5.431	0.000	0.000	0.84	3.5
beta-BHC	1	5.756	0.000	0.000	0.81	
	2	5.701	0.000	0.000	0.73	10.4
delta-BHC	1	5.873	0.000	0.000	0.93	
	2	5.888	0.000	0.000	0.84	10.2
Dieldrin	1	7.107	0.000	0.000	0.85	
	2	7.016	0.000	0.000	0.88	3.5
Endosulfan I	1	6.931	0.000	0.000	0.83	
	2	6.815	0.000	0.000	0.86	3.6
Endosulfan II	1	7.450	0.000	0.000	0.85	
	2	7.402	0.000	0.000	0.87	2.3
Endosulfan Sulfate	1	8.099	0.000	0.000	0.85	
	2	7.883	0.000	0.000	0.87	2.3
Endrin	1	7.281	0.000	0.000	0.85	
	2	7.240	0.000	0.000	0.85	0.0
Endrin Aldehyde	1	7.773	0.000	0.000	0.86	
	2	7.664	0.000	0.000	0.88	2.3
Endrin Ketone	1	8.288	0.000	0.000	0.73	
	2	8.255	0.000	0.000	0.74	1.4
gamma-BHC (Lindane)	1	5.701	0.000	0.000	0.88	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

LCS Dup
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Lab Sample ID:                   B201270-BSD1                                        Date(s) Analyzed           04/21/2018                     04/21/2018          

Instrument ID (1):                   ECD6                                        Instrument ID (2):                   ECD6                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.648	0.000	0.000	0.86	2.3
Heptachlor	1	6.014	0.000	0.000	0.83	
	2	5.929	0.000	0.000	0.82	1.2
Heptachlor Epoxide	1	6.644	0.000	0.000	0.82	
	2	6.536	0.000	0.000	0.83	1.2
Hexachlorobenzene	1	5.393	0.000	0.000	1.1	
	2	5.345	0.000	0.000	0.90	20.0
Methoxychlor	1	7.921	0.000	0.000	0.88	
	2	8.109	0.000	0.000	0.91	3.4





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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b><i>CTDEP ETPH in Soil</i></b>	
CT ETPH	CT
<b><i>CTDEP ETPH in Water</i></b>	
CT ETPH	CT
<b><i>MADEP-EPH-04-1.1 in Soil</i></b>	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
<b><i>MADEP-EPH-04-1.1 in Water</i></b>	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>MADEP-EPH-04-1.1 in Water</b>	
Pyrene	CT,NC,ME,NH-P
<b>SW-846 8081B in Soil</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

18000644  
Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com



Company Name: **AECOM**

Address: **500 Enterprise Dr. IA, Rocky Hills, CT**

Phone: **(860) 263-5800**

Project Name: **Greenwich High School**

Project Location: **Greenwich, CT**

Project Number: **60432366**

Project Manager: **Matt Reed**

Con-Test Quote Name/Number:

Invoice Recipient: **Matt Reed**

Sampled By: **E. Doerfler**

Requested Turnaround Time:  7-Day  10-Day

Due Date:

Rush-Approval Required:  1-Day  3-Day  2-Day  4-Day

Data Delivery:

Format: PDF  EXCEL

Other: **EDD - Equis**

CLP Like Data Pkg Required:

Email To: **Matthew.Reed@AECOM.com**

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	C11-SB610(0-0.5)-1	4/13/18 11:10	X			S	U
02	D10-SB611(6-6.5)-1	4/13/18 11:30	X			S	U
03	AT27-SB612(0-0.5)-1	4/12/18 15:00	X			S	U
04	AV28-SB613(0-0.5)-1	4/2/18 15:10	X			S	U
05	H27-SB603(1-2)-1	4/13/18 14:45	X			S	U

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:  
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 4/13/18 15:00
Received by: (signature)	Date/Time: 4/13/18 15:00
Relinquished by: (signature)	Date/Time: 4/13/18 15:00
Received by: (signature)	Date/Time: 4/13/18 15:00
Relinquished by: (signature)	Date/Time: 4/13/18 15:00
Received by: (signature)	Date/Time: 4/13/18 15:00

Detection Limit Requirements: MA

Special Requirements: MA MCP Required  MCP Certification Form Required  CT RCP Required  RCP Certification Form Required  MA State DWI Required

Project Entity:  Government  Federal  City  Municipality  21 J  Brownfield  MWRA  School  MBTA  WRTA  Chromatogram  AIHA-LAP, LLC  Other

MA and AIHA-LAP, LLC Accredited

# of Containers:  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20

Preservation Code:  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20

Container Code:  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20

ANALYSIS REQUESTED

FTPH + FPH  SLP Pesticides  SLP Pesticides  SLP Pesticides  Pesticides

1 Matrix Codes:  
GW = Ground Water  
WW = Waste Water  
DW = Drinking Water  
A = Air  
S = Soil  
SL = Sludge  
SOL = Solid  
O = Other (please define)

2 Preservation Codes:  
I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium Bisulfate  
X = Sodium Hydroxide  
T = Sodium Thiosulfate  
O = Other (please define)

3 Container Codes:  
A = Amber Glass  
G = Glass  
P = Plastic  
ST = Sterile  
V = Vial  
S = Summa Canister  
T = Tedlar Bag  
O = Other (please define)

PCB ONLY  
 Soxhlet  
 Non Soxhlet



**con-test**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Arcom

Received By KJD Date 4/13/18 Time 1800

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
 Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 571 Actual Temp - 4.9  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T  
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
 Project F ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
 Are there Rushes? F Who was notified? \_\_\_\_\_  
 Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F  
 Proper Media/Containers Used? T Is splitting samples required? F  
 Were trip blanks received? F On COC? NA  
 Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz <u>Amb</u> /Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

**Unused Media**

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

D:\HPCHEM\1\DATA\A041818.SEC\A0418007.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0418007.D  
 Data File Path D:\HPCHEM\1\DATA\A041818.SEC\  
 Operator RMW  
 Date Acquired 4/18/2018 9:03  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	%D +/-20
c - 9	1.17	593440	618232	4
c - 10	1.51	602020	618232	3
c - 12	2.23	609018	618232	1
c - 14	2.89	620879	618232	0
c - 16	3.48	628493	618232	-2
c - 18	4.06	629224	618232	-2
c - 20	4.68	634930	618232	-3
c - 22	5.19	637638	618232	-3
c - 24	5.63	632485	618232	-2
c - 26	6.03	628889	618232	-2
c - 28	6.39	629627	618232	-2
c - 30	6.72	633185	618232	-2
c - 32	7.03	638756	618232	2
c - 34	7.32	594026	618232	4
c - 36	7.60	590871	618232	4

**Samples**

18D0632-01@100X  
 18D0645-01@10X  
 18D0445-01@500X

\*One compound allowed %D &lt;=50%

D:\HPCHEM1\DATA\A041818\A0418006.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0418006.D  
 Data File Path D:\HPCHEM1\DATA\A041818\  
 Operator RMW  
 Date Acquired 4/18/2018 8:45  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	*%D +/-20
c - 9	1.19	592904	597747	1
c - 10	1.53	601015	597747	-1
c - 12	2.24	608215	597747	-2
c - 14	2.91	623846	597747	-4
c - 16	3.50	636349	597747	-6
c - 18	4.09	637376	597747	-7
c - 20	4.70	636955	597747	-7
c - 22	5.21	628209	597747	-5
c - 24	5.66	607549	597747	-2
c - 26	6.05	588645	597747	2
c - 28	6.41	579111	597747	3
c - 30	6.74	578215	597747	3
c - 32	7.05	556368	597747	7
c - 34	7.35	545432	597747	9
c - 36	7.64	546010	597747	9

**Samples**

18D0644-01

\*One compound allowed %D &lt;=50%

D:\HPCHEM\1\DATA\A041918\A0419016.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0419016.D  
 Data File Path D:\HPCHEM\1\DATA\A041918\  
 Operator RMW  
 Date Acquired 4/19/2018 12:26  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	*%D +/-20
c - 9	1.19	565092	562160	-1
c - 10	1.53	570309	562160	-1
c - 12	2.24	567945	562160	-1
c - 14	2.91	563586	562160	-1
c - 16	3.50	567829	562160	-1
c - 18	4.09	561201	562160	0
c - 20	4.71	551127	562160	0
c - 22	5.22	534803	562160	0
c - 24	5.66	536526	562160	-1
c - 26	6.05	568213	562160	-1
c - 28	6.41	572798	562160	-2
c - 30	6.74	576374	562160	-3
c - 32	7.05	553406	562160	2
c - 34	7.35	536807	562160	5
c - 36	7.63	531383	562160	5

**Samples**

18D0569-01RE1@5X  
 18D0569-02RE1@5X

\*One compound allowed %D &lt;/=50%

D:\HPCHEM1\DATA\A042018\A0420020.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0420020.D  
 Data File Path D:\HPCHEM1\DATA\A042018\  
 Operator RMW  
 Date Acquired 4/20/2018 11:26  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	*%D +/-20
c - 9	1.19	522798	536775	3
c - 10	1.53	529289	536775	1
c - 12	2.24	529409	536775	1
c - 14	2.91	539638	536775	-1
c - 16	3.50	551901	536775	-3
c - 18	4.09	556675	536775	-4
c - 20	4.71	561641	536775	-5
c - 22	5.22	560377	536775	-4
c - 24	5.66	549446	536775	-2
c - 26	6.05	540213	536775	-1
c - 28	6.41	536903	536775	0
c - 30	6.75	539606	536775	-1
c - 32	7.06	519205	536775	3
c - 34	7.35	507972	536775	5
c - 36	7.64	506552	536775	6

**Samples**

\*One compound allowed %D &lt;=50%

18D0812-01  
 18D0812-02  
 18D0812-04  
 18D0812-05  
 18D0812-06  
 18D0812-07  
 18D0812-09  
 18D0812-10

D:\HPCHEM1\DATA\A042018\A0420076.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0420076.D  
 Data File Path D:\HPCHEM1\DATA\A042018\  
 Operator RMW  
 Date Acquired 4/20/2018 8:32  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	%D +/-20
c - 9	1.20	588149	614831	4
c - 10	1.53	599707	614831	2
c - 12	2.24	610943	614831	1
c - 14	2.91	629029	614831	-2
c - 16	3.50	643581	614831	-5
c - 18	4.09	646195	614831	-5
c - 20	4.70	646246	614831	-5
c - 22	5.21	640652	614831	-4
c - 24	5.66	625499	614831	-2
c - 26	6.05	614955	614831	0
c - 28	6.41	612421	614831	0
c - 30	6.74	615243	614831	0
c - 32	7.05	592683	614831	4
c - 34	7.35	579590	614831	6
c - 36	7.63	577565	614831	6

**Samples**

18D0816-01  
 18D0799-11  
 18D0799-07@5X

\*One compound allowed %D &lt;/=50%

D:\HPCHEM\1\DATA\A042018.SEC\A0420021.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0420021.D  
 Data File Path D:\HPCHEM\1\DATA\A042018.SEC\  
 Operator RMW  
 Date Acquired 4/20/2018 11:44  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	%D +/-20
c - 9	1.17	547977	560874	2
c - 10	1.51	555418	560874	1
c - 12	2.23	559311	560874	0
c - 14	2.89	568139	560874	-1
c - 16	3.48	573519	560874	-2
c - 18	4.06	572491	560874	-2
c - 20	4.67	575715	560874	-3
c - 22	5.19	575825	560874	-3
c - 24	5.63	569595	560874	-2
c - 26	6.03	564415	560874	-1
c - 28	6.39	564407	560874	-1
c - 30	6.72	569648	560874	-2
c - 32	7.03	547538	560874	2
c - 34	7.32	535182	560874	5
c - 36	7.60	533933	560874	5

**Samples**

18D0814-01  
 18D0644-02@SPLP

\*One compound allowed %D &lt;/=50%

D:\HPCHEM\1\DATA\A042018.SEC\A0420077.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0420077.D  
 Data File Path D:\HPCHEM\1\DATA\A042018.SEC\  
 Operator RMW  
 Date Acquired 4/20/2018 8:49  
 Acq. Method File ETPH06.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Avg Response	%D +/-20
c - 9	1.17	655745	679309	3
c - 10	1.51	667815	679309	2
c - 12	2.22	675690	679309	1
c - 14	2.89	687180	679309	-1
c - 16	3.48	693374	679309	-2
c - 18	4.06	691587	679309	-2
c - 20	4.68	694654	679309	-2
c - 22	5.19	696170	679309	-2
c - 24	5.63	690706	679309	-2
c - 26	6.02	686962	679309	-1
c - 28	6.38	688029	679309	-1
c - 30	6.72	693147	679309	-2
c - 32	7.03	667773	679309	2
c - 34	7.32	651971	679309	4
c - 36	7.60	648830	679309	4

**Samples**

18D0799-01@20X  
 18D0799-02@20X  
 17D0799-08@20X  
 18D0799-05@5X  
 18D0799-06@5X

\*One compound allowed %D &lt; /=50%



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18D0644

**Laboratory Sample ID(s):**

**Sample Date(s):**

18D0644-01 thru 18D0644-05

04/12/2018,

04/13/2018

**List RCP Methods Used:**

CTDEP ETPH, MADEP-EPH-04-1.1, SW-846 1312, SW-846 8081B

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>2</b>	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 04/24/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 3, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.1000.1  
Laboratory Work Order Number: 18F1319

Enclosed are results of analyses for samples received by the laboratory on June 26, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 7/3/2018

PURCHASE ORDER NUMBER: 103651

PROJECT NUMBER: 60432356.1000.1

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18F1319

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V21-SB700	18F1319-01	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 6020A-B	
U21-SB701	18F1319-02	Soil		SM 2540G SW-846 8082A	
U21-SB702	18F1319-03	Soil		SM 2540G SW-846 8082A	
U21-SB703	18F1319-04	Soil		SM 2540G SW-846 8082A	
U21-SB704	18F1319-05	Soil		SM 2540G SW-846 8082A	
U21-SB705	18F1319-06	Soil		SM 2540G	
U21-SB706	18F1319-07	Soil		SM 2540G	
U21-SB707	18F1319-08	Soil		SM 2540G	

**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 lead was requested and reported.

**SW-846 8082A****Qualifications:****MS-21**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

**Analyte & Samples(s) Qualified:****Aroclor-1016**

B206752-MS1, B206752-MSD1

**Aroclor-1016 [2C]**

B206752-MS1, B206752-MSD1

**SW-846 6010C/D SW-846 6020A/B**

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: V21-SB700

Sampled: 6/26/2018 12:05

Sample ID: 18F1319-01

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	34	12	mg/Kg dry	1		CTDEP ETPH	6/28/18	6/29/18 6:56	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		80.6	50-150					6/29/18 6:56	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Sampled: 6/26/2018 12:05

Field Sample #: V21-SB700

Sample ID: 18F1319-01

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	14	1.9	mg/Kg dry	1		SW-846 6010C-D	6/30/18	7/2/18 13:50	QNW
Lead	1600	0.57	mg/Kg dry	1		SW-846 6010C-D	6/30/18	7/2/18 13:50	QNW

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Sampled: 6/26/2018 12:05

Field Sample #: V21-SB700

Sample ID: 18F1319-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	6/28/18	6/28/18 17:39	JFC

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: V21-SB700

Sampled: 6/26/2018 12:05

Sample ID: 18F1319-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	550	5.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 9:29	WSD

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: U21-SB701

Sampled: 6/26/2018 13:43

Sample ID: 18F1319-02

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1248 [1]	0.71	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1254 [2]	0.36	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1260 [1]	0.18	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:21	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	81.3		30-150				6/29/18 13:21		
Decachlorobiphenyl [2]	84.1		30-150				6/29/18 13:21		
Tetrachloro-m-xylene [1]	86.4		30-150				6/29/18 13:21		
Tetrachloro-m-xylene [2]	91.3		30-150				6/29/18 13:21		

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Sampled: 6/26/2018 13:43

Field Sample #: U21-SB701

Sample ID: 18F1319-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	6/28/18	6/28/18 17:39	JFC

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: U21-SB702

Sampled: 6/26/2018 13:40

Sample ID: 18F1319-03

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1248 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1254 [2]	0.13	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1260 [2]	0.087	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:40	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	78.9		30-150				6/29/18 13:40		
Decachlorobiphenyl [2]	79.6		30-150				6/29/18 13:40		
Tetrachloro-m-xylene [1]	80.3		30-150				6/29/18 13:40		
Tetrachloro-m-xylene [2]	85.1		30-150				6/29/18 13:40		

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: U21-SB702

Sampled: 6/26/2018 13:40

Sample ID: 18F1319-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	6/28/18	6/28/18 17:39	JFC

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: U21-SB703

Sampled: 6/26/2018 13:46

Sample ID: 18F1319-04

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 13:58	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.4	30-150					6/29/18 13:58	
Decachlorobiphenyl [2]		84.1	30-150					6/29/18 13:58	
Tetrachloro-m-xylene [1]		82.3	30-150					6/29/18 13:58	
Tetrachloro-m-xylene [2]		88.1	30-150					6/29/18 13:58	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Sampled: 6/26/2018 13:46

Field Sample #: U21-SB703

Sample ID: 18F1319-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.4		% Wt	1		SM 2540G	6/28/18	6/28/18 17:39	JFC

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: U21-SB704

Sampled: 6/26/2018 13:37

Sample ID: 18F1319-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1254 [1]	0.13	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1260 [2]	0.25	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	6/27/18	6/29/18 14:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.3	30-150					6/29/18 14:16	
Decachlorobiphenyl [2]		83.2	30-150					6/29/18 14:16	
Tetrachloro-m-xylene [1]		79.6	30-150					6/29/18 14:16	
Tetrachloro-m-xylene [2]		83.4	30-150					6/29/18 14:16	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Sampled: 6/26/2018 13:37

Field Sample #: U21-SB704

Sample ID: 18F1319-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.6		% Wt	1		SM 2540G	6/28/18	6/28/18 17:40	JFC

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Sampled: 6/26/2018 13:54

Field Sample #: U21-SB705

Sample ID: 18F1319-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	6/28/18	6/28/18 17:40	JFC

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Field Sample #: U21-SB706

Sampled: 6/26/2018 14:00

Sample ID: 18F1319-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3		% Wt	1		SM 2540G	6/28/18	6/28/18 17:40	JFC

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1319

Date Received: 6/26/2018

Sampled: 6/26/2018 14:05

Field Sample #: U21-SB707

Sample ID: 18F1319-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	6/28/18	6/28/18 17:40	JFC

**Sample Extraction Data**

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1319-01 [V21-SB700]	B206834	30.1	1.00	06/28/18

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18F1319-01 [V21-SB700]	B206856	06/28/18
18F1319-02 [U21-SB701]	B206856	06/28/18
18F1319-03 [U21-SB702]	B206856	06/28/18
18F1319-04 [U21-SB703]	B206856	06/28/18
18F1319-05 [U21-SB704]	B206856	06/28/18
18F1319-06 [U21-SB705]	B206856	06/28/18
18F1319-07 [U21-SB706]	B206856	06/28/18
18F1319-08 [U21-SB707]	B206856	06/28/18

**Prep Method: SW-846 3050B-SW-846 6010C-D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1319-01 [V21-SB700]	B206991	1.54	50.0	06/30/18

**Prep Method: SW-846 3010A-SW-846 6020A-B**

Leachates were extracted on 6/30/2018 per SW-846 1312 in Batch B206992

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1319-01 [V21-SB700]	B207069	50.0	50.0	07/02/18

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1319-02 [U21-SB701]	B206752	10.5	10.0	06/27/18
18F1319-03 [U21-SB702]	B206752	10.7	10.0	06/27/18
18F1319-04 [U21-SB703]	B206752	10.5	10.0	06/27/18
18F1319-05 [U21-SB704]	B206752	10.1	10.0	06/27/18

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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
<b>Batch B206752 - SW-846 3540C</b>										
<b>Blank (B206752-BLK1)</b>										
Prepared: 06/27/18 Analyzed: 06/29/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.145		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.134		mg/Kg wet	0.200		67.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.139		mg/Kg wet	0.200		69.7	30-150			
<b>LCS (B206752-BS1)</b>										
Prepared: 06/27/18 Analyzed: 06/29/18										
Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		72.4	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		70.7	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		68.8	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.4	40-140			
Surrogate: Decachlorobiphenyl	0.144		mg/Kg wet	0.200		71.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.138		mg/Kg wet	0.200		69.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.0	30-150			
<b>LCS Dup (B206752-BSD1)</b>										
Prepared: 06/27/18 Analyzed: 06/29/18										
Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		65.1	40-140	10.6	30	
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		66.1	40-140	6.76	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		66.9	40-140	2.80	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.2	40-140	0.296	30	
Surrogate: Decachlorobiphenyl	0.142		mg/Kg wet	0.200		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.147		mg/Kg wet	0.200		73.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.131		mg/Kg wet	0.200		65.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.137		mg/Kg wet	0.200		68.4	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
<b>Batch B206752 - SW-846 3540C</b>										
<b>Matrix Spike (B206752-MS1)</b>										
		<b>Source: 18F1319-02</b>			Prepared: 06/27/18 Analyzed: 06/29/18					
Aroclor-1016	0.37	0.087	mg/Kg dry	0.218	ND	171 *	40-140			MS-21
Aroclor-1016 [2C]	0.50	0.087	mg/Kg dry	0.218	ND	230 *	40-140			MS-21
Aroclor-1260	0.28	0.087	mg/Kg dry	0.218	0.18	49.1	40-140			
Aroclor-1260 [2C]	0.32	0.087	mg/Kg dry	0.218	0.16	72.3	40-140			
Surrogate: Decachlorobiphenyl	0.177		mg/Kg dry	0.218		81.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg dry	0.218		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg dry	0.218		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg dry	0.218		84.8	30-150			
<b>Matrix Spike Dup (B206752-MSD1)</b>										
		<b>Source: 18F1319-02</b>			Prepared: 06/27/18 Analyzed: 06/29/18					
Aroclor-1016	0.42	0.091	mg/Kg dry	0.227	ND	188 *	40-140	13.0	50	MS-21
Aroclor-1016 [2C]	0.58	0.091	mg/Kg dry	0.227	ND	255 *	40-140	14.3	50	MS-21
Aroclor-1260	0.31	0.091	mg/Kg dry	0.227	0.18	56.3	40-140	6.96	50	
Aroclor-1260 [2C]	0.36	0.091	mg/Kg dry	0.227	0.16	85.7	40-140	10.8	50	
Surrogate: Decachlorobiphenyl	0.188		mg/Kg dry	0.227		83.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg dry	0.227		85.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg dry	0.227		80.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg dry	0.227		84.6	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
<b>Batch B206834 - SW-846 3546</b>										
<b>Blank (B206834-BLK1)</b>										
					Prepared: 06/28/18 Analyzed: 06/29/18					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	1.83		mg/Kg wet	3.37		54.3	50-150			
<b>LCS (B206834-BS1)</b>										
					Prepared: 06/28/18 Analyzed: 06/29/18					
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120			
Surrogate: 2-Fluorobiphenyl	2.52		mg/Kg wet	3.37		74.8	50-150			
<b>LCS Dup (B206834-BSD1)</b>										
					Prepared: 06/28/18 Analyzed: 06/29/18					
CT ETPH	25.2	10	mg/Kg wet	33.3		75.7	60-120	11.6	30	
Surrogate: 2-Fluorobiphenyl	2.12		mg/Kg wet	3.37		62.9	50-150			

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B206991 - SW-846 3050B</b>										
<b>Blank (B206991-BLK1)</b>										
					Prepared: 06/30/18 Analyzed: 07/02/18					
Arsenic	ND	1.7	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
<b>LCS (B206991-BS1)</b>										
					Prepared: 06/30/18 Analyzed: 07/02/18					
Arsenic	161	5.0	mg/Kg wet	161		100	83.2-116.8			
Lead	111	1.5	mg/Kg wet	111		99.8	83-117.1			
<b>LCS Dup (B206991-BSD1)</b>										
					Prepared: 06/30/18 Analyzed: 07/02/18					
Arsenic	162	4.9	mg/Kg wet	161		101	83.2-116.8	0.555	30	
Lead	108	1.5	mg/Kg wet	111		97.1	83-117.1	2.69	30	
<b>MRL Check (B206991-MRL1)</b>										
					Prepared: 06/30/18 Analyzed: 07/02/18					
Lead	0.508	0.49	mg/Kg wet	0.494		103	80-120			

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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
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**Batch B206856 - % Solids**

**Duplicate (B206856-DUP2)**

**Source: 18F1319-04**

Prepared & Analyzed: 06/28/18

% Solids	78.3		% Wt		79.4			1.46	20	
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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
<b>Batch B207069 - SW-846 3010A</b>										
<b>Blank (B207069-BLK1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Lead	ND	5.0	µg/L							
<b>LCS (B207069-BS1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Lead	522	10	µg/L	500		104	80-120			
<b>LCS Dup (B207069-BSD1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Lead	528	10	µg/L	500		106	80-120	1.15	20	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**U21-SB701**

*SW-846 8082A*

Lab Sample ID: 18F1319-02 Date(s) Analyzed: 06/29/2018 06/29/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.68	4.3
Aroclor-1254	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.36	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**U21-SB702**

Lab Sample ID: 18F1319-03 Date(s) Analyzed: 06/29/2018 06/29/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.10	18.2
Aroclor-1254	1	0.000	-0.030	0.030	0.094	
	2	0.000	-0.030	0.030	0.13	32.1

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**U21-SB704**

*SW-846 8082A*

Lab Sample ID: 18F1319-05 Date(s) Analyzed: 06/29/2018 06/29/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.25	12.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

LCS
-----

Lab Sample ID: B206752-BS1 Date(s) Analyzed: 06/29/2018 06/29/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

<b>LCS Dup</b>
----------------

Lab Sample ID:                     B206752-BSD1                                          Date(s) Analyzed:           06/29/2018                     06/29/2018          

Instrument ID (1):                     ECD 9                                          Instrument ID (2):                     ECD 9                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.14	7.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8082A*

Lab Sample ID:                   B206752-MS1                                        Date(s) Analyzed:           06/29/2018                     06/29/2018          

Instrument ID (1):                   ECD3                                        Instrument ID (2):                   ECD3                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.37	
	2	0.000	-0.030	0.030	0.50	29.9
Aroclor-1260	1	0.000	-0.030	0.030	0.28	
	2	0.000	-0.030	0.030	0.32	9.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**Matrix Spike Dup**

Lab Sample ID: B206752-MSD1 Date(s) Analyzed: 06/29/2018 06/29/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.42	
	2	0.000	-0.030	0.030	0.58	29.7
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.36	14.9

---

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>SW-846 6010C-D in Soil</b>	
Arsenic	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
<b>SW-846 8082A in Soil</b>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018

18F1319  
 Phone: 413-525-2332  
 Fax: 413-525-6405  
 Email: info@contestlabs.com  
**ALB**  
 Company Name: **AECOM CORP.**  
 Address:  
 Project Name: **GREENWICH H.S.**  
 Project Location: **GREENWICH, CT.**  
 Project Number: **60432356**  
 Project Manager: **MATT ROOD**  
 Con-Test Quote Name/Number:  
 Invoice Recipient:  
 Sampled By: **JOHN CRISP**

Requested Turnaround Time  
 7-Day  10-Day   
 Due Date: **STD**

Rush Approval Required  
 1-Day  3-Day   
 2-Day  4-Day

Data Delivery  
 Format: PDF  EXCEL   
 Other:

CLP Like Data Pkg Required:

Email To:  
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	V21-SB700	6/26/18 12:05	-	-	V	S	U
02	U21-SB701	6/26/18 13:43	-	-	V	S	U
03	U21-SB702	6/26/18 13:40	-	-	V	S	U
04	U21-SB703	6/26/18 13:46	-	-	V	S	U
05	U21-SB704	6/26/18 13:37	-	-	V	S	U
06	U21-SB705	6/26/18 13:24	-	-	V	S	U
07	U21-SB706	6/26/18 14:00	-	-	V	S	U
08	U21-SB707	6/26/18 14:05	-	-	V	S	U

ANALYSIS REQUESTED

Field Filtered   
 Lab to Filter

Field Filtered   
 Lab to Filter

**Matrix Codes:**  
 GW = Ground Water  
 WW = Waste Water  
 DW = Drinking Water  
 A = Air  
 S = Soil  
 SL = Sludge  
 SOL = Solid  
 O = Other (please define)

**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)

**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  
**R DEC JAP NC**

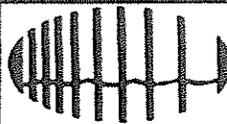
Special Requirements  
 MA MCP Required   
 MCP Certification Form Required   
 CT RCP Required   
 RCP Certification Form Required   
 MA State DW Required   
 PWSID #

Project Entity  
 Government  Federal  City   
 Municipality  21 J  Brownfield   
 MWRA  School  MBTA   
 WRTA  Chromatogram   
 Other  **Residual**

PCB ONLY  
 Soxhlet  
 Non Soxhlet

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Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client ARCOM CORP  
 Received By AMM Date 6/26/18 Time 18:25

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
 Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.6  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T  
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T  
 Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
 Are there Rushes? F Who was notified? \_\_\_\_\_  
 Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T  
 Is there Headspace where applicable? NA MS/MSD? F  
 Proper Media/Containers Used? T Is splitting samples required? F  
 Were trip blanks received? F On COC? F  
 Do all samples have the proper pH? NA Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz <u>Amb</u> /Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Comments:**

C:\MSDCHEM\4\DATA\D062718\D0627174.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name D0627174.D  
 Data File Path C:\MSDCHEM\4\DATA\D062718\  
 Operator RMW  
 Date Acquired 6/29/2018 3:35  
 Acq. Method File EPH11D.M  
 Sample Name ETPH 1500  
 Instrument Name GCFID4

Compound	Ret Time	Target Response	Avg Response	*%D +/- 20
C-9	1.53	8306013	9274546	10
C-10	2.20	8616970	9274546	7
C-12	3.16	8954876	9274546	3
C-14	3.88	9225427	9274546	1
C-16	4.49	9412052	9274546	-1
C-18	5.04	9436967	9274546	-2
C-20	5.64	9474304	9274546	-2
C-22	6.38	9473633	9274546	-2
C-24	7.22	9364489	9274546	-1
C-26	8.03	9324852	9274546	-1
C-28	8.77	9404524	9274546	-1
C-30	9.46	9604234	9274546	-4
C-32	10.10	9433648	9274546	-2
C-34	10.70	9434145	9274546	-2
C-36	11.28	9652059	9274546	-4

**Samples**

\*One compound allowed %D &lt;/=50%

18F1103-17RE1  
 18F1319-01



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18F1319

**Laboratory Sample ID(s):**

**Sample Date(s):**

18F1319-01 thru 18F1319-08

06/26/2018

*List RCP Methods Used:*

CTDEP ETPH, SW-846 1312, SW-846 6010C-D, SW-846 6020A-B, 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 07/03/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 5, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.1000.1  
Laboratory Work Order Number: 18F1381

Enclosed are results of analyses for samples received by the laboratory on June 27, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 7/5/2018

PURCHASE ORDER NUMBER: 103651

PROJECT NUMBER: 60432356.1000.1

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18F1381

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
R23-SB713 (2-3')	18F1381-01	Soil		CTDEP ETPH SM 2540G	
R23-SB712 (2-3')	18F1381-02	Soil		CTDEP ETPH SM 2540G	
DUP-20180627	18F1381-03	Soil		CTDEP ETPH SM 2540G	
S21-SB609 (3-5')	18F1381-04	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 6020A-B SW-846 7470A SW-846 7471B	
BC27-SB615 (1-2')	18F1381-05	Soil		SM 2540G SW-846 8082A	
BD27-SB616 (2-4')	18F1381-06	Soil		SM 2540G SW-846 8082A	
BC27-SB614 (1-2')	18F1381-07	Soil		SM 2540G SW-846 8082A	
BD27-SB617 (1-2')	18F1381-08	Soil		SM 2540G SW-846 8082A	
BD28-SB618 (1-2')	18F1381-09	Soil		SM 2540G SW-846 8082A	

**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 Pb was requested and reported.

**CTDEP ETPH****Qualifications:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

**Analyte & Samples(s) Qualified:****CT ETPH**

18F1381-01[R23-SB713 (2-3')], B206834-MS1, B206834-MSD1

**R-06**

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

**Analyte & Samples(s) Qualified:****CT ETPH**

18F1381-01[R23-SB713 (2-3')], B206834-MS1, B206834-MSD1

**S-26**

Surrogate outside of control limits.

**Analyte & Samples(s) Qualified:****2-Fluorobiphenyl**

B206834-MS1

**SW-846 8082A****Qualifications:****MS-23**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

**Analyte & Samples(s) Qualified:****Aroclor-1016 [2C]**

B206891-MSD1

**P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

**Analyte & Samples(s) Qualified:****Aroclor-1254 [2C]**

18F1381-08[BD27-SB617 (1-2')]

**R-06**

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

**Analyte & Samples(s) Qualified:****Aroclor-1016**

18F1381-09[BD28-SB618 (1-2')], B206891-MS1, B206891-MSD1

**Aroclor-1016 [2C]**

18F1381-09[BD28-SB618 (1-2')], B206891-MS1, B206891-MSD1

**Aroclor-1260**

18F1381-09[BD28-SB618 (1-2')], B206891-MS1, B206891-MSD1

**Aroclor-1260 [2C]**

18F1381-09[BD28-SB618 (1-2')], B206891-MS1, B206891-MSD1

---

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**SW-846 6010C/D SW-846 6020A/B**

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: R23-SB713 (2-3')

Sampled: 6/27/2018 08:30

Sample ID: 18F1381-01

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	44	12	mg/Kg dry	1	R-06, MS-07A	CTDEP ETPH	6/28/18	6/30/18 13:59	RMW
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		62.6	50-150					6/30/18 13:59	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: R23-SB713 (2-3')

Sampled: 6/27/2018 08:30

Sample ID: 18F1381-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	6/29/18	7/1/18 10:53	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: R23-SB712 (2-3')

Sampled: 6/27/2018 09:06

Sample ID: 18F1381-02

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	280	120	mg/Kg dry	10		CTDEP ETPH	7/2/18	7/3/18 15:15	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		84.7	50-150					7/3/18 15:15	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: R23-SB712 (2-3')

Sampled: 6/27/2018 09:06

Sample ID: 18F1381-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.5		% Wt	1		SM 2540G	6/29/18	7/1/18 10:53	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: DUP-20180627

Sampled: 6/27/2018 15:00

Sample ID: 18F1381-03

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	120	mg/Kg dry	10		CTDEP ETPH	7/2/18	7/3/18 15:33	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		89.0	50-150					7/3/18 15:33	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: DUP-20180627

Sampled: 6/27/2018 15:00

Sample ID: 18F1381-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	6/29/18	7/1/18 10:53	MRL

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: S21-SB609 (3-5')

Sampled: 6/27/2018 10:20

Sample ID: 18F1381-04

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	140	56	mg/Kg dry	5		CTDEP ETPH	6/28/18	6/30/18 15:11	RMW
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		58.5	50-150					6/30/18 15:11	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: S21-SB609 (3-5')

Sampled: 6/27/2018 10:20

Sample ID: 18F1381-04

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	77	0.57	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:02	QNW
Mercury	0.15	0.028	mg/Kg dry	1		SW-846 7471B	6/29/18	7/2/18 12:57	EJB

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: S21-SB609 (3-5')

Sampled: 6/27/2018 10:20

Sample ID: 18F1381-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	6/29/18	7/1/18 10:54	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: S21-SB609 (3-5')

Sampled: 6/27/2018 10:20

Sample ID: 18F1381-04

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	670	5.0	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 11:14	WSD
Mercury	0.00067	0.00010	mg/L	1		SW-846 7470A	7/5/18	7/5/18 14:53	EJB

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BC27-SB615 (1-2')

Sampled: 6/27/2018 11:30

Sample ID: 18F1381-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1248 [2]	0.92	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1254 [2]	0.44	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 16:50	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	61.6		30-150				7/2/18 16:50		
Decachlorobiphenyl [2]	64.7		30-150				7/2/18 16:50		
Tetrachloro-m-xylene [1]	65.9		30-150				7/2/18 16:50		
Tetrachloro-m-xylene [2]	66.3		30-150				7/2/18 16:50		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BC27-SB615 (1-2')

Sampled: 6/27/2018 11:30

Sample ID: 18F1381-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	6/29/18	7/1/18 10:54	MRL

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BD27-SB616 (2-4')

Sampled: 6/27/2018 12:40

Sample ID: 18F1381-06

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1248 [2]	0.19	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1254 [2]	0.23	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:08	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	69.2		30-150				7/2/18 17:08		
Decachlorobiphenyl [2]	73.8		30-150				7/2/18 17:08		
Tetrachloro-m-xylene [1]	69.7		30-150				7/2/18 17:08		
Tetrachloro-m-xylene [2]	69.3		30-150				7/2/18 17:08		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BD27-SB616 (2-4')

Sampled: 6/27/2018 12:40

Sample ID: 18F1381-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	6/29/18	7/1/18 10:54	MRL

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BC27-SB614 (1-2')

Sampled: 6/27/2018 13:35

Sample ID: 18F1381-07

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1248 [2]	0.28	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1254 [2]	0.20	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:25	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		67.0	30-150					7/2/18 17:25	
Decachlorobiphenyl [2]		74.3	30-150					7/2/18 17:25	
Tetrachloro-m-xylene [1]		68.9	30-150					7/2/18 17:25	
Tetrachloro-m-xylene [2]		68.2	30-150					7/2/18 17:25	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BC27-SB614 (1-2')

Sampled: 6/27/2018 13:35

Sample ID: 18F1381-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	6/29/18	7/1/18 10:54	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BD27-SB617 (1-2')

Sampled: 6/27/2018 14:00

Sample ID: 18F1381-08

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1248 [2]	0.34	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1254 [2]	0.27	0.086	mg/Kg dry	4	P-01	SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 17:43	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.8	30-150					7/2/18 17:43	
Decachlorobiphenyl [2]		79.8	30-150					7/2/18 17:43	
Tetrachloro-m-xylene [1]		78.4	30-150					7/2/18 17:43	
Tetrachloro-m-xylene [2]		78.5	30-150					7/2/18 17:43	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: BD27-SB617 (1-2')

Sampled: 6/27/2018 14:00

Sample ID: 18F1381-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	6/29/18	7/1/18 10:54	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: **BD28-SB618 (1-2')**

Sample ID: **18F1381-09**

Start Date/Time: 6/27/2018 2:20:00PM

Sample Matrix: Soil

Stop Date/Time: 6/27/2018 2:24:00PM

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4	R-06	SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1248 [2]	0.44	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1254 [2]	0.21	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4	R-06	SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/28/18	7/2/18 18:00	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.7	30-150					7/2/18 18:00	
Decachlorobiphenyl [2]		75.3	30-150					7/2/18 18:00	
Tetrachloro-m-xylene [1]		73.5	30-150					7/2/18 18:00	
Tetrachloro-m-xylene [2]		73.4	30-150					7/2/18 18:00	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1381

Date Received: 6/27/2018

Field Sample #: **BD28-SB618 (1-2')**

Sample ID: **18F1381-09**

Start Date/Time: 6/27/2018 2:20:00PM

Sample Matrix: Soil

Stop Date/Time: 6/27/2018 2:24:00PM

**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	94.0		% Wt	1		SM 2540G	6/29/18	7/1/18 10:55	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**Sample Extraction Data**

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1381-01 [R23-SB713 (2-3'')]	B206834	30.1	1.00	06/28/18
18F1381-04 [S21-SB609 (3-5'')]	B206834	30.4	1.00	06/28/18

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1381-02RE1 [R23-SB712 (2-3'')]	B207103	30.0	1.00	07/02/18
18F1381-03RE1 [DUP-20180627]	B207103	30.0	1.00	07/02/18

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18F1381-01 [R23-SB713 (2-3'')]	B206907	06/29/18
18F1381-02 [R23-SB712 (2-3'')]	B206907	06/29/18
18F1381-03 [DUP-20180627]	B206907	06/29/18
18F1381-04 [S21-SB609 (3-5'')]	B206907	06/29/18
18F1381-05 [BC27-SB615 (1-2'')]	B206907	06/29/18
18F1381-06 [BD27-SB616 (2-4'')]	B206907	06/29/18
18F1381-07 [BC27-SB614 (1-2'')]	B206907	06/29/18
18F1381-08 [BD27-SB617 (1-2'')]	B206907	06/29/18
18F1381-09 [BD28-SB618 (1-2'')]	B206907	06/29/18

**Prep Method: SW-846 3050B-SW-846 6010C-D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1381-04RE1 [S21-SB609 (3-5'')]	B207180	1.49	50.0	07/03/18

**Prep Method: SW-846 3010A-SW-846 6020A-B**

Leachates were extracted on 7/2/2018 per SW-846 1312 in Batch B207066

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1381-04 [S21-SB609 (3-5'')]	B207171	50.0	50.0	07/03/18

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

Leachates were extracted on 7/2/2018 per SW-846 1312 in Batch B207066

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1381-04RE1 [S21-SB609 (3-5'')]	B207275	6.00	6.00	07/05/18

**Prep Method: SW-846 7471-SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1381-04 [S21-SB609 (3-5'')]	B206926	0.603	50.0	06/29/18

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1381-05 [BC27-SB615 (1-2'')]	B206891	10.1	10.0	06/28/18

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

### Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1381-06 [BD27-SB616 (2-4')]	B206891	10.0	10.0	06/28/18
18F1381-07 [BC27-SB614 (1-2')]	B206891	10.1	10.0	06/28/18
18F1381-08 [BD27-SB617 (1-2')]	B206891	10.0	10.0	06/28/18
18F1381-09 [BD28-SB618 (1-2')]	B206891	10.0	10.0	06/28/18

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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
<b>Batch B206891 - SW-846 3540C</b>										
<b>Blank (B206891-BLK1)</b>										
Prepared: 06/28/18 Analyzed: 07/02/18										
Aroclor-1016	ND	0.019	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1221	ND	0.019	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1232	ND	0.019	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1242	ND	0.019	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1248	ND	0.019	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1254	ND	0.019	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1260	ND	0.019	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1262	ND	0.019	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1268	ND	0.019	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.019	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.168		mg/Kg wet	0.192		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.192		91.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.192		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.192		80.9	30-150			
<b>LCS (B206891-BS1)</b>										
Prepared: 06/28/18 Analyzed: 07/02/18										
Aroclor-1016	0.15	0.020	mg/Kg wet	0.196		76.2	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.196		75.9	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.196		74.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.196		78.5	40-140			
Surrogate: Decachlorobiphenyl	0.149		mg/Kg wet	0.196		75.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.196		79.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.142		mg/Kg wet	0.196		72.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.143		mg/Kg wet	0.196		73.1	30-150			
<b>LCS Dup (B206891-BSD1)</b>										
Prepared: 06/28/18 Analyzed: 07/02/18										
Aroclor-1016	0.14	0.020	mg/Kg wet	0.196		72.9	40-140	4.39	30	
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.196		72.3	40-140	4.93	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.196		74.9	40-140	0.408	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.196		77.4	40-140	1.40	30	
Surrogate: Decachlorobiphenyl	0.151		mg/Kg wet	0.196		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.196		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.132		mg/Kg wet	0.196		67.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.133		mg/Kg wet	0.196		67.9	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
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**Batch B206891 - SW-846 3540C**

**Matrix Spike (B206891-MS1)**

**Source: 18F1381-09**

Prepared: 06/28/18 Analyzed: 07/02/18

Aroclor-1016	0.16	0.085	mg/Kg dry	0.213	ND	75.1	40-140			R-06
Aroclor-1016 [2C]	0.28	0.085	mg/Kg dry	0.213	ND	133	40-140			R-06
Aroclor-1260	0.12	0.085	mg/Kg dry	0.213	ND	57.3	40-140			R-06
Aroclor-1260 [2C]	0.14	0.085	mg/Kg dry	0.213	ND	64.8	40-140			R-06
Surrogate: Decachlorobiphenyl	0.0848		mg/Kg dry	0.213		39.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0872		mg/Kg dry	0.213		41.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.0901		mg/Kg dry	0.213		42.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0881		mg/Kg dry	0.213		41.4	30-150			

**Matrix Spike Dup (B206891-MSD1)**

**Source: 18F1381-09**

Prepared: 06/28/18 Analyzed: 07/02/18

Aroclor-1016	0.29	0.084	mg/Kg dry	0.211	ND	140	40-140	<b>59.2</b>	*	50	R-06
<b>Aroclor-1016 [2C]</b>	0.40	0.084	mg/Kg dry	0.211	ND	<b>189</b>	40-140	33.6	*	50	MS-23, R-06
Aroclor-1260	0.20	0.084	mg/Kg dry	0.211	ND	96.8	40-140	<b>50.4</b>	*	50	R-06
Aroclor-1260 [2C]	0.23	0.084	mg/Kg dry	0.211	ND	110	40-140	<b>50.8</b>	*	50	R-06
Surrogate: Decachlorobiphenyl	0.153		mg/Kg dry	0.211		72.5	30-150				
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg dry	0.211		75.4	30-150				
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg dry	0.211		75.4	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg dry	0.211		74.9	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
<b>Batch B206834 - SW-846 3546</b>										
<b>Blank (B206834-BLK1)</b>										
Prepared: 06/28/18 Analyzed: 06/29/18										
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	1.83		mg/Kg wet	3.37		54.3	50-150			
<b>LCS (B206834-BS1)</b>										
Prepared: 06/28/18 Analyzed: 06/29/18										
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120			
Surrogate: 2-Fluorobiphenyl	2.52		mg/Kg wet	3.37		74.8	50-150			
<b>LCS Dup (B206834-BSD1)</b>										
Prepared: 06/28/18 Analyzed: 06/29/18										
CT ETPH	25.2	10	mg/Kg wet	33.3		75.7	60-120	11.6	30	
Surrogate: 2-Fluorobiphenyl	2.12		mg/Kg wet	3.37		62.9	50-150			
<b>Matrix Spike (B206834-MS1)</b>										
Source: 18F1381-01 Prepared: 06/28/18 Analyzed: 06/30/18										
CT ETPH	40.9	12	mg/Kg dry	38.4	43.9	-7.85 *	50-150			MS-07A, R-06
Surrogate: 2-Fluorobiphenyl	1.39		mg/Kg dry	3.88		35.8 *	50-150			S-26
<b>Matrix Spike Dup (B206834-MSD1)</b>										
Source: 18F1381-01 Prepared: 06/28/18 Analyzed: 06/30/18										
CT ETPH	57.1	12	mg/Kg dry	38.5	43.9	34.2 *	50-150	33.1 *	30	MS-07A, R-06
Surrogate: 2-Fluorobiphenyl	2.02		mg/Kg dry	3.89		51.8	50-150			
<b>Batch B207103 - SW-846 3546</b>										
<b>Blank (B207103-BLK1)</b>										
Prepared: 07/02/18 Analyzed: 07/03/18										
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	3.02		mg/Kg wet	3.37		89.6	50-150			
<b>LCS (B207103-BS1)</b>										
Prepared: 07/02/18 Analyzed: 07/03/18										
CT ETPH	23.9	10	mg/Kg wet	33.3		71.6	60-120			
Surrogate: 2-Fluorobiphenyl	2.97		mg/Kg wet	3.37		88.3	50-150			
<b>LCS Dup (B207103-BSD1)</b>										
Prepared: 07/02/18 Analyzed: 07/03/18										
CT ETPH	22.0	10	mg/Kg wet	33.3		66.0	60-120	8.07	30	
Surrogate: 2-Fluorobiphenyl	2.68		mg/Kg wet	3.37		79.5	50-150			

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B206926 - SW-846 7471</b>										
<b>Blank (B206926-BLK1)</b> Prepared: 06/29/18 Analyzed: 07/02/18										
Mercury	ND	0.025	mg/Kg wet							
<b>LCS (B206926-BS1)</b> Prepared: 06/29/18 Analyzed: 07/02/18										
Mercury	9.20	1.9	mg/Kg wet	9.36		98.3	73.7-126.3			
<b>LCS Dup (B206926-BSD1)</b> Prepared: 06/29/18 Analyzed: 07/02/18										
Mercury	9.95	1.9	mg/Kg wet	9.36		106	73.7-126.3	7.81	30	
<b>Batch B206942 - SW-846 3051</b>										
<b>Blank (B206942-BLK1)</b> Prepared & Analyzed: 07/02/18										
Lead	ND	0.50	mg/Kg wet							
<b>LCS (B206942-BS1)</b> Prepared & Analyzed: 07/02/18										
Lead	110	1.5	mg/Kg wet	111		99.0	83-117.1			
<b>LCS Dup (B206942-BSD1)</b> Prepared & Analyzed: 07/02/18										
Lead	107	1.5	mg/Kg wet	111		96.7	83-117.1	2.37	30	
<b>Batch B207180 - SW-846 3050B</b>										
<b>Blank (B207180-BLK1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Lead	ND	0.50	mg/Kg wet							
<b>LCS (B207180-BS1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Lead	108	1.5	mg/Kg wet	111		96.9	83-117.1			
<b>LCS Dup (B207180-BSD1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Lead	112	1.5	mg/Kg wet	111		101	83-117.1	3.99	30	
<b>Duplicate (B207180-DUP1)</b> Source: 18F1381-04RE1 Prepared: 07/03/18 Analyzed: 07/05/18										
Lead	74.7	0.55	mg/Kg dry		77.2			3.26	35	
<b>MRL Check (B207180-MRL1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Lead	0.461	0.50	mg/Kg wet	0.499		92.4	80-120			
<b>Matrix Spike (B207180-MS1)</b> Source: 18F1381-04RE1 Prepared: 07/03/18 Analyzed: 07/05/18										
Lead	91.9	0.57	mg/Kg dry	18.9	77.2	78.4	75-125			

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**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B206907 - % Solids</b>										
<b>Duplicate (B206907-DUP7)</b>	<b>Source: 18F1381-01</b>			Prepared: 06/29/18 Analyzed: 07/01/18						
% Solids	85.6		% Wt		85.9			0.390	20	
<b>Duplicate (B206907-DUP8)</b>	<b>Source: 18F1381-09</b>			Prepared: 06/29/18 Analyzed: 07/01/18						
% Solids	93.8		% Wt		94.0			0.279	20	

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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
<b>Batch B207171 - SW-846 3010A</b>										
<b>Blank (B207171-BLK1)</b>				Prepared: 07/03/18 Analyzed: 07/05/18						
Lead	ND	5.0	µg/L							
<b>LCS (B207171-BS1)</b>				Prepared: 07/03/18 Analyzed: 07/05/18						
Lead	522	10	µg/L	500		104	80-120			
<b>LCS Dup (B207171-BSD1)</b>				Prepared: 07/03/18 Analyzed: 07/05/18						
Lead	530	10	µg/L	500		106	80-120	1.36	20	
<b>Batch B207275 - SW-846 7470A Prep</b>										
<b>Blank (B207275-BLK1)</b>				Prepared & Analyzed: 07/05/18						
Mercury	ND	0.00010	mg/L							
<b>LCS (B207275-BS1)</b>				Prepared & Analyzed: 07/05/18						
Mercury	0.00175	0.00010	mg/L	0.00200		87.5	80-120			
<b>LCS Dup (B207275-BSD1)</b>				Prepared & Analyzed: 07/05/18						
Mercury	0.00170	0.00010	mg/L	0.00200		85.1	80-120	2.78	20	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**BC27-SB615 (1-2')**

*SW-846 8082A*

Lab Sample ID: 18F1381-05 Date(s) Analyzed: 07/02/2018 07/02/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.92	25.8
Aroclor-1254	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.44	37.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BD27-SB616 (2-4')**

Lab Sample ID: 18F1381-06 Date(s) Analyzed: 07/02/2018 07/02/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.19	23.5
Aroclor-1254	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.23	35.9

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BC27-SB614 (1-2')**

Lab Sample ID: 18F1381-07 Date(s) Analyzed: 07/02/2018 07/02/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.28	28.6
Aroclor-1254	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.20	22.2

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BD27-SB617 (1-2')**

Lab Sample ID: 18F1381-08 Date(s) Analyzed: 07/02/2018 07/02/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.34	23.0
Aroclor-1254	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.27	51.2

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BD28-SB618 (1-2')**

Lab Sample ID: 18F1381-09 Date(s) Analyzed: 07/02/2018 07/02/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.37	
	2	0.000	-0.030	0.030	0.44	17.3
Aroclor-1254	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.21	15.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8082A*

Lab Sample ID:                     B206891-BS1                                          Date(s) Analyzed:           07/02/2018                     07/02/2018          

Instrument ID (1):                     ECD 9                                          Instrument ID (2):                     ECD 9                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

<b>LCS Dup</b>
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Lab Sample ID:                   B206891-BSD1                                        Date(s) Analyzed:           07/02/2018                     07/02/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8082A*

Lab Sample ID:                   B206891-MS1                                        Date(s) Analyzed:           07/02/2018                     07/02/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.28	54.5
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.14	15.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike Dup**

*SW-846 8082A*

Lab Sample ID:                   B206891-MSD1                                        Date(s) Analyzed:           07/02/2018                     07/02/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.40	31.9
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.23	14.0

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-26	Surrogate outside of control limits.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

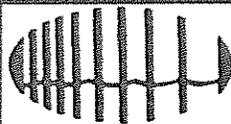
Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>SW-846 6010C-D in Soil</b>	
Lead	CT,NH,NY,AIHA,ME,VA,NC
<b>SW-846 7470A in Water</b>	
Mercury	CT,NH,NY,NC,ME,VA
<b>SW-846 7471B in Soil</b>	
Mercury	CT,NH,NY,NC,ME,VA
<b>SW-846 8082A in Soil</b>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018







**con-test**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Accu  
 Received By mp Date 6/27/18 Time 1715  
 How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
 Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_  
 Were samples within Temperature? 2-6°C T By Gun # A Actual Temp - 2.1  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
 Was Custody Seal Intact? NA Were Samples Tampered with? NA  
 Was COC Relinquished? T Does Chain Agree With Samples? T  
 Are there broken/leaking/loose caps on any samples? F  
 Is COC in ink/ Legible? T Were samples received within holding time? T  
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
 Project T ID's T Collection Dates/Times T  
 Are Sample labels filled out and legible? T  
 Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
 Are there Rushes? F Who was notified? \_\_\_\_\_  
 Are there Short Holds? F Who was notified? \_\_\_\_\_  
 Is there enough Volume? T  
 Is there Headspace where applicable? F MS/MSD? T  
 Proper Media/Containers Used? T Is splitting samples required? F  
 Were trip blanks received? F On COC? F  
 Do all samples have the proper pH? NA Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

X:\HPCHEM1\DATA\A063018.SEC\A0630007.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0630007.D  
 Data File Path X:\HPCHEM1\DATA\A063018.SEC\  
 Operator RMW  
 Date Acquired 6/30/2018 9:51  
 Acq. Method File ETPH18.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Name	Ret Time	Target Response	Avg response	*/%D+/-20
c - 9	1.23	581124	622378	7
c - 10	1.58	594499	622378	4
c - 12	2.30	606241	622378	3
c - 14	2.96	619138	622378	1
c - 16	3.56	630041	622378	-1
c - 18	4.16	632818	622378	-2
c - 20	4.77	638757	622378	-3
c - 22	5.28	642200	622378	-3
c - 24	5.72	637242	622378	-2
c - 26	6.11	632474	622378	-2
c - 28	6.47	631462	622378	-1
c - 30	6.80	635412	622378	-2
c - 32	7.11	617586	622378	1
c - 34	7.40	614879	622378	1
c - 36	7.70	621805	622378	0

**Samples**

18F1103-13@200X  
 18F1103-07@200X  
 18F1103-08@200X  
 18F1103-16@20X  
 18F1103-10@20X  
 18F1381-01  
 18F1381-04@5X

\*One compound allowed %D &lt;/=50%

X:\HPCHEM1\DATA\A063018.SEC\A0630063.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0630063.D  
 Data File Path X:\HPCHEM1\DATA\A063018.SEC\  
 Operator RMW  
 Date Acquired 6/30/2018 6:48  
 Acq. Method File ETPH18.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Name	Ret Time	Target Response	Avg response	*%D+/-20
c - 9	1.23	567233	604781	6
c - 10	1.58	583136	604781	4
c - 12	2.30	593877	604781	2
c - 14	2.96	605161	604781	0
c - 16	3.56	614604	604781	-2
c - 18	4.16	615860	604781	-2
c - 20	4.77	620130	604781	-3
c - 22	5.28	622572	604781	-3
c - 24	5.72	616752	604781	-2
c - 26	6.11	611227	604781	-1
c - 28	6.47	609368	604781	-1
c - 30	6.80	613240	604781	-1
c - 32	7.11	597405	604781	1
c - 34	7.40	596125	604781	1
c - 36	7.70	605021	604781	0

**Samples**

18F1279-01@200X

\*One compound allowed %D &lt;=50%

X:\HPCHEM\1\DATA\A070318.SEC\A0703007.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0703007.D  
 Data File Path X:\HPCHEM\1\DATA\A070318.SEC\  
 Operator RMW  
 Date Acquired 7/3/2018 9:45  
 Acq. Method File ETPH18.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Name	Ret Time	Target Response	Avg response	***D+/-20
c - 9	1.22	597092	632881	6
c - 10	1.57	610554	632881	4
c - 12	2.30	619732	632881	2
c - 14	2.96	628711	632881	1
c - 16	3.56	638882	632881	-1
c - 18	4.15	641456	632881	-1
c - 20	4.77	648050	632881	-2
c - 22	5.28	651209	632881	-3
c - 24	5.71	646136	632881	-2
c - 26	6.11	641248	632881	-1
c - 28	6.47	640311	632881	-1
c - 30	6.80	645088	632881	-2
c - 32	7.11	627492	632881	1
c - 34	7.40	624966	632881	1
c - 36	7.70	632285	632881	0

**Samples**

\*One compound allowed %D &lt;=50%

18F1381-02RE1@10X  
 18F1381-03RE1@10X



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18F1381

**Laboratory Sample ID(s):**

**Sample Date(s):**

18F1381-01 thru 18F1381-09

06/27/2018

*List RCP Methods Used:*

CTDEP ETPH, SW-846 1312, SW-846 6010C-D, SW-846 6020A-B, SW-846 7470A, SW-846 7471B, 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 07/05/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 6, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18F1465

Enclosed are results of analyses for samples received by the laboratory on June 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 7/6/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18F1465

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Scoreboard Trench 01 (0-2)	18F1465-01	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 7471B	
Scoreboard Trench 02 (0-2)	18F1465-02	Soil		SW-846 8081B	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 6020A-B	
				SW-846 7470A	
Scoreboard Trench 03 (0-2)	18F1465-03	Soil		SW-846 7471B	
				SW-846 8081B	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 6020A-B	
Scoreboard Trench 04 (0-2)	18F1465-04	Soil		SW-846 7470A	
				SW-846 7471B	
				SW-846 8081B	
				SM 2540G	
				SW-846 6010C-D	
School Front 20180628 (0-2)	18F1465-05	Soil		SW-846 6020A-B	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8081B	
				CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 6020A-B	
H27-SB603 (1-2)	18F1465-06	Soil		SW-846 7470A	
				SW-846 7471B	
Dup 20180628	18F1465-07	Soil		SW-846 8081B	
				SM 2540G	
				SW-846 8270D	
				SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270,18f1465-05 only PAHs were requested and reported.

For method 6010, only arsenic and lead were requested and reported for sample 01 to 04.

For method 6020, only arsenic and lead were requested and reported.

**SW-846 6010C-D****Qualifications:****DL-04**

Elevated reporting limit due to high concentration of an interfering analyte(s).

**Analyte & Samples(s) Qualified:****Beryllium**

18F1465-05[School Front 20180628 (0-2)]

**SW-846 8081B****Qualifications:****P-02**

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

**Analyte & Samples(s) Qualified:****Dieldrin [2C]**

18F1465-01[Scoreboard Trench 01 (0-2)], 18F1465-01RE1[Scoreboard Trench 01 (0-2)]

**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

**Analyte & Samples(s) Qualified:****4,4'-DDD**

B207088-BS1, B207088-BSD1, B207088-MS1

**4,4'-DDE**

B207088-BS1, B207088-BSD1, B207088-MS1

**Aldrin**

B207088-MS1

**alpha-BHC [2C]**

B207088-MS1

**gamma-BHC (Lindane)**

B207088-MS1

**gamma-BHC (Lindane) [2C]**

B207088-MS1

**V-20**

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

**Analyte & Samples(s) Qualified:****gamma-BHC (Lindane) [2C]**

18F1465-01[Scoreboard Trench 01 (0-2)], 18F1465-02[Scoreboard Trench 02 (0-2)], 18F1465-03[Scoreboard Trench 03 (0-2)], 18F1465-04[Scoreboard Trench 04 (0-2)]

---

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**SW-846 6010C/D SW-846 6020A/B**

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 01 (0-2)

Sampled: 6/28/2018 10:00

Sample ID: 18F1465-01

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
gamma-BHC (Lindane) [2]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Chlordane [1]	0.046	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
4,4'-DDD [2]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
4,4'-DDE [2]	0.028	0.0045	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
4,4'-DDT [1]	0.028	0.0045	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Dieldrin [2]	0.0054	0.0045	mg/Kg dry	1	P-02	SW-846 8081B	7/2/18	7/4/18 4:08	TG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Endosulfan II [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Endosulfan sulfate [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Endrin [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Endrin aldehyde [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Endrin ketone [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Hexachlorobenzene [1]	ND	0.0068	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:08	TG
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
Decachlorobiphenyl [1]		70.4	30-150					7/4/18 4:08	
Decachlorobiphenyl [2]		78.2	30-150					7/4/18 4:08	
Tetrachloro-m-xylene [1]		75.1	30-150					7/4/18 4:08	
Tetrachloro-m-xylene [2]		72.2	30-150					7/4/18 4:08	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 01 (0-2)

Sampled: 6/28/2018 10:00

Sample ID: 18F1465-01

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	2.3	1.8	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:43	QNW
Lead	52	0.55	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:43	QNW
Mercury	0.081	0.029	mg/Kg dry	1		SW-846 7471B	7/3/18	7/5/18 12:19	EJB

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 01 (0-2)

Sampled: 6/28/2018 10:00

Sample ID: 18F1465-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	6/30/18	7/1/18 10:26	KMG

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 01 (0-2)

Sampled: 6/28/2018 10:00

Sample ID: 18F1465-01

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Aldrin [2]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1	V-20	SW-846 8081B	7/2/18	7/5/18 19:20	TG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
4,4'-DDD [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
4,4'-DDE [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Dieldrin [2]	0.0068	0.0020	µg/L	1	P-02	SW-846 8081B	7/2/18	7/5/18 19:20	TG
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:20	TG
<b>Surrogates</b>		<b>% Recovery</b>			<b>Recovery Limits</b>				
Decachlorobiphenyl [1]		50.5			30-150			7/5/18 19:20	
Decachlorobiphenyl [2]		54.3			30-150			7/5/18 19:20	
Tetrachloro-m-xylene [1]		82.4			30-150			7/5/18 19:20	
Tetrachloro-m-xylene [2]		78.8			30-150			7/5/18 19:20	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 01 (0-2)

Sampled: 6/28/2018 10:00

Sample ID: 18F1465-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:35	WSD
Lead	14	5.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:35	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/2/18	7/3/18 13:13	EJB

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 02 (0-2)

Sampled: 6/28/2018 10:38

Sample ID: 18F1465-02

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
gamma-BHC (Lindane) [2]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
4,4'-DDD [2]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
4,4'-DDE [2]	0.0083	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
4,4'-DDT [1]	0.0060	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Endosulfan II [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Endosulfan sulfate [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Endrin [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Endrin aldehyde [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Endrin ketone [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 4:35	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.4	30-150					7/4/18 4:35	
Decachlorobiphenyl [2]		87.5	30-150					7/4/18 4:35	
Tetrachloro-m-xylene [1]		83.9	30-150					7/4/18 4:35	
Tetrachloro-m-xylene [2]		78.5	30-150					7/4/18 4:35	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 02 (0-2)

Sampled: 6/28/2018 10:38

Sample ID: 18F1465-02

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	2.0	1.9	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:47	QNW
Lead	48	0.58	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:47	QNW
Mercury	0.068	0.028	mg/Kg dry	1		SW-846 7471B	7/3/18	7/5/18 12:38	EJB

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 02 (0-2)

Sampled: 6/28/2018 10:38

Sample ID: 18F1465-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.7		% Wt	1		SM 2540G	6/30/18	7/1/18 10:26	KMG

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 02 (0-2)

Sampled: 6/28/2018 10:38

Sample ID: 18F1465-02

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Aldrin [2]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1	V-20	SW-846 8081B	7/2/18	7/5/18 19:47	TG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
4,4'-DDD [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
4,4'-DDE [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/2/18	7/5/18 19:47	TG
<b>Surrogates</b>		<b>% Recovery</b>			<b>Recovery Limits</b>				<b>Flag/Qual</b>
Decachlorobiphenyl [1]		46.6			30-150			7/5/18 19:47	
Decachlorobiphenyl [2]		49.1			30-150			7/5/18 19:47	
Tetrachloro-m-xylene [1]		84.3			30-150			7/5/18 19:47	
Tetrachloro-m-xylene [2]		77.1			30-150			7/5/18 19:47	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 02 (0-2)

Sampled: 6/28/2018 10:38

Sample ID: 18F1465-02

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.2	2.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:37	WSD
Lead	42	5.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:37	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/2/18	7/3/18 13:15	EJB

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 03 (0-2)

Sampled: 6/28/2018 11:05

Sample ID: 18F1465-03

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Aldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
alpha-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
beta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
delta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
gamma-BHC (Lindane) [2]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
4,4'-DDD [2]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
4,4'-DDE [2]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
4,4'-DDT [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Dieldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Endosulfan I [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Endosulfan II [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Endosulfan sulfate [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Endrin [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Endrin aldehyde [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Endrin ketone [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Heptachlor [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Hexachlorobenzene [1]	ND	0.0072	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Methoxychlor [1]	ND	0.060	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:02	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.1	30-150					7/4/18 5:02	
Decachlorobiphenyl [2]		79.2	30-150					7/4/18 5:02	
Tetrachloro-m-xylene [1]		75.4	30-150					7/4/18 5:02	
Tetrachloro-m-xylene [2]		71.6	30-150					7/4/18 5:02	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 03 (0-2)

Sampled: 6/28/2018 11:05

Sample ID: 18F1465-03

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:51	QNW
Lead	17	0.58	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:51	QNW
Mercury	0.039	0.029	mg/Kg dry	1		SW-846 7471B	7/3/18	7/5/18 12:39	EJB

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 03 (0-2)

Sampled: 6/28/2018 11:05

Sample ID: 18F1465-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.6		% Wt	1		SM 2540G	6/30/18	7/1/18 10:27	KMG

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 03 (0-2)

Sampled: 6/28/2018 11:05

Sample ID: 18F1465-03

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Aldrin [2]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1	V-20	SW-846 8081B	7/2/18	7/5/18 20:15	TG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
4,4'-DDD [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
4,4'-DDE [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:15	TG
<b>Surrogates</b>		<b>% Recovery</b>			<b>Recovery Limits</b>				<b>Flag/Qual</b>
Decachlorobiphenyl [1]		74.1			30-150			7/5/18 20:15	
Decachlorobiphenyl [2]		78.5			30-150			7/5/18 20:15	
Tetrachloro-m-xylene [1]		78.9			30-150			7/5/18 20:15	
Tetrachloro-m-xylene [2]		74.8			30-150			7/5/18 20:15	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 03 (0-2)

Sampled: 6/28/2018 11:05

Sample ID: 18F1465-03

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:39	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:39	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/2/18	7/3/18 13:17	EJB

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 04 (0-2)

Sampled: 6/28/2018 11:50

Sample ID: 18F1465-04

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
gamma-BHC (Lindane) [2]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
4,4'-DDD [2]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
4,4'-DDE [2]	0.0098	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
4,4'-DDT [1]	0.0077	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Endosulfan II [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Endosulfan sulfate [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Endrin [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Endrin aldehyde [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Endrin ketone [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:29	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.6	30-150					7/4/18 5:29	
Decachlorobiphenyl [2]		79.5	30-150					7/4/18 5:29	
Tetrachloro-m-xylene [1]		76.0	30-150					7/4/18 5:29	
Tetrachloro-m-xylene [2]		70.2	30-150					7/4/18 5:29	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 04 (0-2)

Sampled: 6/28/2018 11:50

Sample ID: 18F1465-04

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:57	QNW
Lead	78	0.59	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 16:57	QNW
Mercury	0.12	0.030	mg/Kg dry	1		SW-846 7471B	7/3/18	7/5/18 12:41	EJB

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 04 (0-2)

Sampled: 6/28/2018 11:50

Sample ID: 18F1465-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	6/30/18	7/1/18 10:27	KMG

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 04 (0-2)

Sampled: 6/28/2018 11:50

Sample ID: 18F1465-04

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Aldrin [2]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1	V-20	SW-846 8081B	7/2/18	7/5/18 20:42	TG
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
4,4'-DDD [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
4,4'-DDE [2]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/2/18	7/5/18 20:42	TG
<b>Surrogates</b>		<b>% Recovery</b>		<b>Recovery Limits</b>	<b>Flag/Qual</b>				
Decachlorobiphenyl [1]		72.1		30-150				7/5/18 20:42	
Decachlorobiphenyl [2]		77.3		30-150				7/5/18 20:42	
Tetrachloro-m-xylene [1]		88.3		30-150				7/5/18 20:42	
Tetrachloro-m-xylene [2]		81.2		30-150				7/5/18 20:42	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Scoreboard Trench 04 (0-2)

Sampled: 6/28/2018 11:50

Sample ID: 18F1465-04

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:32	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	7/2/18	7/3/18 13:32	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/2/18	7/3/18 13:12	EJB

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18F1465-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/29/18	6/30/18 16:24	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		31.4	30-130					6/30/18 16:24	
2-Fluorobiphenyl		33.2	30-130					6/30/18 16:24	
p-Terphenyl-d14		35.6	30-130					6/30/18 16:24	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18F1465-05

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
gamma-BHC (Lindane) [2]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
4,4'-DDD [2]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
4,4'-DDE [2]	0.015	0.0046	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
4,4'-DDT [2]	0.0098	0.0046	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 5:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.8	30-150					7/4/18 5:56	
Decachlorobiphenyl [2]		80.3	30-150					7/4/18 5:56	
Tetrachloro-m-xylene [1]		78.1	30-150					7/4/18 5:56	
Tetrachloro-m-xylene [2]		74.9	30-150					7/4/18 5:56	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18F1465-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 15:39	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					7/5/18 15:39	
Decachlorobiphenyl [2]		97.9	30-150					7/5/18 15:39	
Tetrachloro-m-xylene [1]		94.8	30-150					7/5/18 15:39	
Tetrachloro-m-xylene [2]		97.0	30-150					7/5/18 15:39	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18F1465-05

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	19	11	mg/Kg dry	1		CTDEP ETPH	7/2/18	7/3/18 14:37	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		80.1	50-150					7/3/18 14:37	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18F1465-05

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Barium	140	1.9	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Beryllium	ND	0.37	mg/Kg dry	2	DL-04	SW-846 6010C-D	7/3/18	7/5/18 16:22	QNW
Cadmium	0.27	0.19	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Chromium	47	0.37	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Copper	10	0.37	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Lead	27	0.56	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Mercury	0.057	0.030	mg/Kg dry	1		SW-846 7471B	7/3/18	7/5/18 12:49	EJB
Nickel	18	0.37	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Vanadium	49	0.75	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW
Zinc	76	0.75	mg/Kg dry	1		SW-846 6010C-D	7/3/18	7/5/18 17:01	QNW

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18F1465-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1		SM 2540G	7/1/18	7/2/18 7:02	KMG

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18F1465-05

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/5/18	7/5/18 14:54	EJB
Nickel	ND	25	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	7/3/18	7/5/18 12:19	WSD

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: H27-SB603 (1-2)

Sampled: 6/28/2018 14:21

Sample ID: 18F1465-06

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
gamma-BHC (Lindane) [2]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
4,4'-DDE [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Endosulfan II [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Endosulfan sulfate [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Endrin [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Endrin aldehyde [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Endrin ketone [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:24	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.4	30-150					7/4/18 6:24	
Decachlorobiphenyl [2]		82.3	30-150					7/4/18 6:24	
Tetrachloro-m-xylene [1]		80.0	30-150					7/4/18 6:24	
Tetrachloro-m-xylene [2]		76.8	30-150					7/4/18 6:24	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: H27-SB603 (1-2)

Sampled: 6/28/2018 14:21

Sample ID: 18F1465-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	6/30/18	7/1/18 10:27	KMG

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Dup 20180628

Sampled: 6/28/2018 07:00

Sample ID: 18F1465-07

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
gamma-BHC (Lindane) [2]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
4,4'-DDE [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Endosulfan II [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Endosulfan sulfate [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Endrin [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Endrin aldehyde [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Endrin ketone [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Hexachlorobenzene [1]	ND	0.0066	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/4/18 6:51	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.7	30-150					7/4/18 6:51	
Decachlorobiphenyl [2]		77.2	30-150					7/4/18 6:51	
Tetrachloro-m-xylene [1]		74.9	30-150					7/4/18 6:51	
Tetrachloro-m-xylene [2]		73.1	30-150					7/4/18 6:51	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18F1465

Date Received: 6/28/2018

Field Sample #: Dup 20180628

Sampled: 6/28/2018 07:00

Sample ID: 18F1465-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	7/1/18	7/2/18 7:03	KMG

**Sample Extraction Data**

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1465-05RE1 [School Front 20180628 (0-2)]	B207103	30.0	1.00	07/02/18

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18F1465-01 [Scoreboard Trench 01 (0-2)]	B206993	06/30/18
18F1465-02 [Scoreboard Trench 02 (0-2)]	B206993	06/30/18
18F1465-03 [Scoreboard Trench 03 (0-2)]	B206993	06/30/18
18F1465-04 [Scoreboard Trench 04 (0-2)]	B206993	06/30/18
18F1465-06 [H27-SB603 (1-2)]	B206993	06/30/18

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18F1465-05 [School Front 20180628 (0-2)]	B207013	07/01/18
18F1465-07 [Dup 20180628]	B207013	07/01/18

**Prep Method: SW-846 3050B-SW-846 6010C-D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1465-01 [Scoreboard Trench 01 (0-2)]	B207180	1.56	50.0	07/03/18
18F1465-02 [Scoreboard Trench 02 (0-2)]	B207180	1.51	50.0	07/03/18
18F1465-03 [Scoreboard Trench 03 (0-2)]	B207180	1.55	50.0	07/03/18
18F1465-04 [Scoreboard Trench 04 (0-2)]	B207180	1.52	50.0	07/03/18
18F1465-05 [School Front 20180628 (0-2)]	B207180	1.54	50.0	07/03/18

**Prep Method: SW-846 3010A-SW-846 6020A-B**

Leachates were extracted on 6/30/2018 per SW-846 1312 in Batch B206992

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1465-01 [Scoreboard Trench 01 (0-2)]	B207069	50.0	50.0	07/02/18
18F1465-02 [Scoreboard Trench 02 (0-2)]	B207069	50.0	50.0	07/02/18
18F1465-03 [Scoreboard Trench 03 (0-2)]	B207069	50.0	50.0	07/02/18
18F1465-04 [Scoreboard Trench 04 (0-2)]	B207069	50.0	50.0	07/02/18

**Prep Method: SW-846 3010A-SW-846 6020A-B**

Leachates were extracted on 7/2/2018 per SW-846 1312 in Batch B207066

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1465-05 [School Front 20180628 (0-2)]	B207171	50.0	50.0	07/03/18

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

Leachates were extracted on 6/30/2018 per SW-846 1312 in Batch B206992

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1465-01 [Scoreboard Trench 01 (0-2)]	B207085	6.00	6.00	07/02/18
18F1465-02 [Scoreboard Trench 02 (0-2)]	B207085	6.00	6.00	07/02/18
18F1465-03 [Scoreboard Trench 03 (0-2)]	B207085	6.00	6.00	07/02/18
18F1465-04 [Scoreboard Trench 04 (0-2)]	B207085	6.00	6.00	07/02/18

**Sample Extraction Data**

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

**Leachates were extracted on 7/2/2018 per SW-846 1312 in Batch B207066**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1465-05RE1 [School Front 20180628 (0-2)]	B207275	6.00	6.00	07/05/18

**Prep Method: SW-846 7471-SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1465-01 [Scoreboard Trench 01 (0-2)]	B207146	0.591	50.0	07/03/18
18F1465-02 [Scoreboard Trench 02 (0-2)]	B207146	0.630	50.0	07/03/18
18F1465-03 [Scoreboard Trench 03 (0-2)]	B207146	0.619	50.0	07/03/18
18F1465-04 [Scoreboard Trench 04 (0-2)]	B207146	0.592	50.0	07/03/18
18F1465-05 [School Front 20180628 (0-2)]	B207146	0.577	50.0	07/03/18

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1465-01RE1 [Scoreboard Trench 01 (0-2)]	B207027	10.0	10.0	07/02/18
18F1465-02RE1 [Scoreboard Trench 02 (0-2)]	B207027	10.0	10.0	07/02/18
18F1465-03RE1 [Scoreboard Trench 03 (0-2)]	B207027	10.0	10.0	07/02/18
18F1465-04RE1 [Scoreboard Trench 04 (0-2)]	B207027	10.2	10.0	07/02/18
18F1465-05RE1 [School Front 20180628 (0-2)]	B207027	10.0	10.0	07/02/18
18F1465-06RE1 [H27-SB603 (1-2)]	B207027	10.0	10.0	07/02/18
18F1465-07RE1 [Dup 20180628]	B207027	10.1	10.0	07/02/18

**Prep Method: SW-846 3510C-SW-846 8081B**

**Leachates were extracted on 6/30/2018 per SW-846 1312 in Batch B206992**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18F1465-01 [Scoreboard Trench 01 (0-2)]	B207088	500	5.00	07/02/18
18F1465-02 [Scoreboard Trench 02 (0-2)]	B207088	500	5.00	07/02/18
18F1465-03 [Scoreboard Trench 03 (0-2)]	B207088	500	5.00	07/02/18
18F1465-04 [Scoreboard Trench 04 (0-2)]	B207088	500	5.00	07/02/18

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1465-05 [School Front 20180628 (0-2)]	B207014	10.6	10.0	07/02/18

**Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1465-05 [School Front 20180628 (0-2)]	B206936	30.3	1.00	06/29/18

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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
<b>Batch B206936 - SW-846 3546</b>										
<b>Blank (B206936-BLK1)</b>										
Prepared: 06/29/18 Analyzed: 06/30/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	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							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.81		mg/Kg wet	3.33		54.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.33		60.1	30-130			
Surrogate: p-Terphenyl-d14	2.45		mg/Kg wet	3.33		73.6	30-130			
<b>LCS (B206936-BS1)</b>										
Prepared: 06/29/18 Analyzed: 06/30/18										
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Acenaphthylene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140			
Anthracene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Benzo(a)anthracene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Benzo(g,h,i)perylene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140			
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Fluorene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.22		mg/Kg wet	3.33		66.5	30-130			
Surrogate: p-Terphenyl-d14	2.48		mg/Kg wet	3.33		74.5	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
<b>Batch B206936 - SW-846 3546</b>										
<b>LCS Dup (B206936-BSD1)</b>										
					Prepared: 06/29/18 Analyzed: 06/30/18					
Acenaphthene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140	1.00	30	
Acenaphthylene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	1.23	30	
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.7	40-140	0.981	30	
Benzo(a)anthracene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	1.13	30	
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140	1.38	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	0.763	30	
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	0.725	30	
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	2.93	30	
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	1.88	30	
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	0.933	30	
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	1.41	30	
Fluorene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	0.321	30	
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	0.111	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140	1.25	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	0.221	30	
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	0.653	30	
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140	1.76	30	
Surrogate: Nitrobenzene-d5	2.17		mg/Kg wet	3.33		65.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/Kg wet	3.33		66.1	30-130			
Surrogate: p-Terphenyl-d14	2.52		mg/Kg wet	3.33		75.7	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
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**Batch B206894 - SW-846 3546**

**Blank (B206894-BLK1)**

Prepared: 06/29/18 Analyzed: 07/03/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.148		mg/Kg wet	0.200		73.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.143		mg/Kg wet	0.200		71.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B206894 - SW-846 3546</b>										
<b>LCS (B206894-BS1)</b>										
					Prepared: 06/29/18 Analyzed: 07/03/18					
alpha-Chlordane	0.080	0.0050	mg/Kg wet	0.100		80.0	40-140			
alpha-Chlordane [2C]	0.081	0.0050	mg/Kg wet	0.100		81.1	40-140			
gamma-Chlordane	0.078	0.0050	mg/Kg wet	0.100		78.2	40-140			
gamma-Chlordane [2C]	0.082	0.0050	mg/Kg wet	0.100		81.9	40-140			
Alachlor	0.12	0.020	mg/Kg wet	0.100		119	40-140			
Alachlor [2C]	0.095	0.020	mg/Kg wet	0.100		94.6	40-140			
Aldrin	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
Aldrin [2C]	0.080	0.0050	mg/Kg wet	0.100		80.3	40-140			
alpha-BHC	0.078	0.0050	mg/Kg wet	0.100		78.5	40-140			
alpha-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		77.0	40-140			
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		79.2	40-140			
beta-BHC [2C]	0.072	0.0050	mg/Kg wet	0.100		72.4	40-140			
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		84.1	40-140			
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		80.9	40-140			
gamma-BHC (Lindane)	0.082	0.0020	mg/Kg wet	0.100		82.5	40-140			
gamma-BHC (Lindane) [2C]	0.082	0.0020	mg/Kg wet	0.100		81.8	40-140			
4,4'-DDD	0.088	0.0040	mg/Kg wet	0.100		88.0	40-140			
4,4'-DDD [2C]	0.086	0.0040	mg/Kg wet	0.100		86.1	40-140			
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		88.6	40-140			
4,4'-DDE [2C]	0.085	0.0040	mg/Kg wet	0.100		85.0	40-140			
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.100		87.9	40-140			
4,4'-DDT [2C]	0.084	0.0040	mg/Kg wet	0.100		84.3	40-140			
Dieldrin	0.085	0.0040	mg/Kg wet	0.100		84.7	40-140			
Dieldrin [2C]	0.080	0.0040	mg/Kg wet	0.100		80.1	40-140			
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		80.6	40-140			
Endosulfan I [2C]	0.079	0.0050	mg/Kg wet	0.100		78.8	40-140			
Endosulfan II	0.083	0.0080	mg/Kg wet	0.100		83.3	40-140			
Endosulfan II [2C]	0.085	0.0080	mg/Kg wet	0.100		84.8	40-140			
Endosulfan Sulfate	0.081	0.0080	mg/Kg wet	0.100		81.2	40-140			
Endosulfan Sulfate [2C]	0.084	0.0080	mg/Kg wet	0.100		83.9	40-140			
Endrin	0.083	0.0080	mg/Kg wet	0.100		82.5	40-140			
Endrin [2C]	0.082	0.0080	mg/Kg wet	0.100		81.9	40-140			
Endrin Aldehyde	0.081	0.0080	mg/Kg wet	0.100		81.0	40-140			
Endrin Aldehyde [2C]	0.082	0.0080	mg/Kg wet	0.100		82.5	40-140			
Endrin Ketone	0.086	0.0080	mg/Kg wet	0.100		86.1	40-140			
Endrin Ketone [2C]	0.084	0.0080	mg/Kg wet	0.100		83.6	40-140			
Heptachlor	0.080	0.0050	mg/Kg wet	0.100		79.8	40-140			
Heptachlor [2C]	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		80.3	40-140			
Heptachlor Epoxide [2C]	0.080	0.0050	mg/Kg wet	0.100		80.2	40-140			
Hexachlorobenzene	0.085	0.0060	mg/Kg wet	0.100		84.9	40-140			
Hexachlorobenzene [2C]	0.083	0.0060	mg/Kg wet	0.100		83.4	40-140			
Methoxychlor	0.085	0.050	mg/Kg wet	0.100		84.9	40-140			
Methoxychlor [2C]	0.087	0.050	mg/Kg wet	0.100		87.3	40-140			
Surrogate: Decachlorobiphenyl	0.153		mg/Kg wet	0.200		76.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.200		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.7	30-150			

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
<b>Batch B206894 - SW-846 3546</b>										
<b>LCS (B206894-BS2)</b>										
Prepared: 06/29/18 Analyzed: 07/03/18										
Toxaphene	0.19	0.10	mg/Kg wet	0.250		74.2	40-140			
Toxaphene [2C]	0.19	0.10	mg/Kg wet	0.250		76.2	40-140			
Surrogate: Decachlorobiphenyl	0.147		mg/Kg wet	0.200		73.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.153		mg/Kg wet	0.200		76.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.5	30-150			
<b>LCS Dup (B206894-BSD1)</b>										
Prepared: 06/29/18 Analyzed: 07/03/18										
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140	2.17	30	
alpha-Chlordane [2C]	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140	3.34	30	
gamma-Chlordane	0.080	0.0050	mg/Kg wet	0.100		79.9	40-140	2.12	30	
gamma-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		84.8	40-140	3.49	30	
Alachlor	0.11	0.020	mg/Kg wet	0.100		115	40-140	4.22	30	
Alachlor [2C]	0.099	0.020	mg/Kg wet	0.100		99.0	40-140	4.54	30	
Aldrin	0.085	0.0050	mg/Kg wet	0.100		85.3	40-140	3.19	30	
Aldrin [2C]	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	3.64	30	
alpha-BHC	0.081	0.0050	mg/Kg wet	0.100		81.3	40-140	3.52	30	
alpha-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		80.4	40-140	4.37	30	
beta-BHC	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140	2.95	30	
beta-BHC [2C]	0.074	0.0050	mg/Kg wet	0.100		74.4	40-140	2.68	30	
delta-BHC	0.086	0.0050	mg/Kg wet	0.100		86.3	40-140	2.59	30	
delta-BHC [2C]	0.083	0.0050	mg/Kg wet	0.100		82.8	40-140	2.32	30	
gamma-BHC (Lindane)	0.085	0.0020	mg/Kg wet	0.100		85.3	40-140	3.35	30	
gamma-BHC (Lindane) [2C]	0.085	0.0020	mg/Kg wet	0.100		84.7	40-140	3.48	30	
4,4'-DDD	0.091	0.0040	mg/Kg wet	0.100		90.7	40-140	2.98	30	
4,4'-DDD [2C]	0.089	0.0040	mg/Kg wet	0.100		89.5	40-140	3.85	30	
4,4'-DDE	0.091	0.0040	mg/Kg wet	0.100		90.7	40-140	2.26	30	
4,4'-DDE [2C]	0.088	0.0040	mg/Kg wet	0.100		87.7	40-140	3.16	30	
4,4'-DDT	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140	2.07	30	
4,4'-DDT [2C]	0.087	0.0040	mg/Kg wet	0.100		86.8	40-140	2.94	30	
Dieldrin	0.087	0.0040	mg/Kg wet	0.100		86.8	40-140	2.46	30	
Dieldrin [2C]	0.083	0.0040	mg/Kg wet	0.100		82.8	40-140	3.38	30	
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		82.5	40-140	2.32	30	
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		80.1	40-140	1.63	30	
Endosulfan II	0.086	0.0080	mg/Kg wet	0.100		85.9	40-140	3.06	30	
Endosulfan II [2C]	0.088	0.0080	mg/Kg wet	0.100		87.9	40-140	3.51	30	
Endosulfan Sulfate	0.083	0.0080	mg/Kg wet	0.100		83.3	40-140	2.49	30	
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		86.8	40-140	3.39	30	
Endrin	0.085	0.0080	mg/Kg wet	0.100		84.8	40-140	2.68	30	
Endrin [2C]	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140	4.60	30	
Endrin Aldehyde	0.084	0.0080	mg/Kg wet	0.100		83.7	40-140	3.29	30	
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.8	40-140	3.95	30	
Endrin Ketone	0.088	0.0080	mg/Kg wet	0.100		88.3	40-140	2.58	30	
Endrin Ketone [2C]	0.086	0.0080	mg/Kg wet	0.100		86.2	40-140	3.06	30	
Heptachlor	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140	2.53	30	
Heptachlor [2C]	0.087	0.0050	mg/Kg wet	0.100		86.7	40-140	3.59	30	
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140	2.24	30	
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140	2.45	30	
Hexachlorobenzene	0.088	0.0060	mg/Kg wet	0.100		88.4	40-140	4.09	30	
Hexachlorobenzene [2C]	0.087	0.0060	mg/Kg wet	0.100		87.3	40-140	4.55	30	
Methoxychlor	0.086	0.050	mg/Kg wet	0.100		86.2	40-140	1.49	30	
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.100		89.3	40-140	2.33	30	

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**QUALITY CONTROL**

**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B206894 - SW-846 3546**

**LCS Dup (B206894-BSD1)**

Prepared: 06/29/18 Analyzed: 07/03/18

Surrogate: Decachlorobiphenyl	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.4	30-150			

**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
<b>Batch B207014 - SW-846 3540C</b>										
<b>Blank (B207014-BLK1)</b>										
Prepared: 07/02/18 Analyzed: 07/05/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.209		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.198		mg/Kg wet	0.200		98.9	30-150			
<b>LCS (B207014-BS1)</b>										
Prepared: 07/02/18 Analyzed: 07/05/18										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.0	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140			
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		93.2	40-140			
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg wet	0.200		95.2	30-150			
<b>LCS Dup (B207014-BSD1)</b>										
Prepared: 07/02/18 Analyzed: 07/05/18										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.3	40-140	14.3	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140	24.3	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.8	40-140	16.6	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.3	40-140	16.1	30	
Surrogate: Decachlorobiphenyl	0.176		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.4	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
<b>Batch B206970 - SW-846 3546</b>										
<b>Blank (B206970-BLK1)</b>										
Prepared: 06/29/18 Analyzed: 06/30/18										
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.54		mg/Kg wet	3.37		75.3	50-150			
<b>LCS (B206970-BS1)</b>										
Prepared: 06/29/18 Analyzed: 06/30/18										
CT ETPH	23.5	10	mg/Kg wet	33.3		70.4	60-120			
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg wet	3.37		64.8	50-150			
<b>LCS Dup (B206970-BSD1)</b>										
Prepared: 06/29/18 Analyzed: 06/30/18										
CT ETPH	21.0	10	mg/Kg wet	33.3		63.1	60-120	11.0	30	
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.37		59.3	50-150			
<b>Batch B207103 - SW-846 3546</b>										
<b>Blank (B207103-BLK1)</b>										
Prepared: 07/02/18 Analyzed: 07/03/18										
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	3.02		mg/Kg wet	3.37		89.6	50-150			
<b>LCS (B207103-BS1)</b>										
Prepared: 07/02/18 Analyzed: 07/03/18										
CT ETPH	23.9	10	mg/Kg wet	33.3		71.6	60-120			
Surrogate: 2-Fluorobiphenyl	2.97		mg/Kg wet	3.37		88.3	50-150			
<b>LCS Dup (B207103-BSD1)</b>										
Prepared: 07/02/18 Analyzed: 07/03/18										
CT ETPH	22.0	10	mg/Kg wet	33.3		66.0	60-120	8.07	30	
Surrogate: 2-Fluorobiphenyl	2.68		mg/Kg wet	3.37		79.5	50-150			

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207146 - SW-846 7471</b>										
<b>Blank (B207146-BLK1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Mercury	ND	0.025	mg/Kg wet							
<b>LCS (B207146-BS1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Mercury	9.34	2.0	mg/Kg wet	9.36		99.7	73.7-126.3			
<b>LCS Dup (B207146-BSD1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Mercury	9.64	2.0	mg/Kg wet	9.36		103	73.7-126.3	3.17	30	
<b>Duplicate (B207146-DUP1)</b> Source: 18F1465-01 Prepared: 07/03/18 Analyzed: 07/05/18										
Mercury	0.0768	0.029	mg/Kg dry		0.0807			4.97	35	
<b>Matrix Spike (B207146-MS1)</b> Source: 18F1465-01 Prepared: 07/03/18 Analyzed: 07/05/18										
Mercury	0.241	0.029	mg/Kg dry	0.193	0.0807	82.9	75-125			
<b>Batch B207180 - SW-846 3050B</b>										
<b>Blank (B207180-BLK1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
<b>LCS (B207180-BS1)</b> Prepared: 07/03/18 Analyzed: 07/05/18										
Antimony	68.7	5.0	mg/Kg wet	75.5		91.0	3.8-196			
Arsenic	161	5.0	mg/Kg wet	161		99.9	83.2-116.8			
Barium	272	5.0	mg/Kg wet	260		105	82.7-117.3			
Beryllium	100	0.50	mg/Kg wet	97.6		102	83.4-116.8			
Cadmium	210	0.50	mg/Kg wet	211		99.5	83.4-116.6			
Chromium	141	1.0	mg/Kg wet	136		104	82.4-117.6			
Copper	177	1.0	mg/Kg wet	166		106	83.7-115.7			
Lead	108	1.5	mg/Kg wet	111		96.9	83-117.1			
Nickel	91.7	1.0	mg/Kg wet	91.9		99.7	82.9-117.5			
Selenium	189	10	mg/Kg wet	191		99.1	79.6-120.9			
Silver	42.0	1.0	mg/Kg wet	43.3		97.0	79.9-119.9			
Thallium	161	5.0	mg/Kg wet	156		103	81.4-119.2			
Vanadium	56.4	2.0	mg/Kg wet	56.7		99.4	79-121.2			
Zinc	202	2.0	mg/Kg wet	199		102	81.4-119.1			

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207180 - SW-846 3050B</b>										
<b>LCS Dup (B207180-BSD1)</b>										
					Prepared: 07/03/18 Analyzed: 07/05/18					
Antimony	71.0	5.0	mg/Kg wet	75.5		94.0	3.8-196	3.20	30	
Arsenic	165	5.0	mg/Kg wet	161		103	83.2-116.8	2.73	30	
Barium	273	5.0	mg/Kg wet	260		105	82.7-117.3	0.549	30	
Beryllium	101	0.50	mg/Kg wet	97.6		104	83.4-116.8	1.32	30	
Cadmium	214	0.50	mg/Kg wet	211		101	83.4-116.6	1.87	30	
Chromium	143	1.0	mg/Kg wet	136		105	82.4-117.6	1.38	30	
Copper	178	1.0	mg/Kg wet	166		107	83.7-115.7	0.846	30	
Lead	112	1.5	mg/Kg wet	111		101	83-117.1	3.99	30	
Nickel	93.8	1.0	mg/Kg wet	91.9		102	82.9-117.5	2.30	30	
Selenium	194	10	mg/Kg wet	191		102	79.6-120.9	2.44	30	
Silver	43.2	1.0	mg/Kg wet	43.3		99.8	79.9-119.9	2.92	30	
Thallium	169	5.0	mg/Kg wet	156		108	81.4-119.2	4.77	30	
Vanadium	56.9	2.0	mg/Kg wet	56.7		100	79-121.2	1.03	30	
Zinc	204	2.0	mg/Kg wet	199		103	81.4-119.1	1.19	30	
<b>MRL Check (B207180-MRL1)</b>										
					Prepared: 07/03/18 Analyzed: 07/05/18					
Lead	0.461	0.50	mg/Kg wet	0.499		92.4	80-120			

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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
<b>Batch B206993 - % Solids</b>										
<b>Duplicate (B206993-DUP1)</b>	<b>Source: 18F1465-01</b>			Prepared: 06/30/18 Analyzed: 07/01/18						
% Solids	88.5		% Wt		88.1			0.446	20	
<b>Duplicate (B206993-DUP2)</b>	<b>Source: 18F1465-02</b>			Prepared: 06/30/18 Analyzed: 07/01/18						
% Solids	85.9		% Wt		85.7			0.291	20	

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207088 - SW-846 3510C

Blank (B207088-BLK1)

Prepared: 07/02/18 Analyzed: 07/05/18

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.48		µg/L	2.00		73.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.57		µg/L	2.00		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.52		µg/L	2.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.43		µg/L	2.00		71.7	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207088 - SW-846 3510C</b>										
<b>LCS (B207088-BS1)</b>										
				Prepared: 07/02/18 Analyzed: 07/05/18						
Alachlor	1.0	0.20	µg/L	1.00		101	40-140			
Alachlor [2C]	1.0	0.20	µg/L	1.00		103	40-140			
Aldrin	0.99	0.050	µg/L	1.00		98.7	40-140			
Aldrin [2C]	0.98	0.050	µg/L	1.00		97.7	40-140			
alpha-BHC	0.96	0.050	µg/L	1.00		96.3	40-140			
alpha-BHC [2C]	0.95	0.050	µg/L	1.00		95.2	40-140			
beta-BHC	0.94	0.050	µg/L	1.00		93.9	40-140			
beta-BHC [2C]	0.91	0.050	µg/L	1.00		90.9	40-140			
delta-BHC	1.0	0.050	µg/L	1.00		103	40-140			
delta-BHC [2C]	0.99	0.050	µg/L	1.00		98.6	40-140			
gamma-BHC (Lindane)	0.99	0.030	µg/L	1.00		99.3	40-140			
gamma-BHC (Lindane) [2C]	0.99	0.030	µg/L	1.00		98.7	40-140			
4,4'-DDD	1.0	0.040	µg/L	1.00		102	40-140			V-06
4,4'-DDD [2C]	1.0	0.040	µg/L	1.00		100	40-140			
4,4'-DDE	1.0	0.040	µg/L	1.00		101	40-140			V-06
4,4'-DDE [2C]	0.99	0.040	µg/L	1.00		99.0	40-140			
4,4'-DDT	0.99	0.040	µg/L	1.00		99.2	40-140			
4,4'-DDT [2C]	0.97	0.040	µg/L	1.00		97.1	40-140			
Dieldrin	0.98	0.0020	µg/L	1.00		98.3	40-140			
Dieldrin [2C]	0.94	0.0020	µg/L	1.00		93.8	40-140			
Endosulfan I	0.93	0.050	µg/L	1.00		93.4	40-140			
Endosulfan I [2C]	0.92	0.050	µg/L	1.00		92.3	40-140			
Endosulfan II	0.96	0.080	µg/L	1.00		96.2	40-140			
Endosulfan II [2C]	0.98	0.080	µg/L	1.00		98.0	40-140			
Endosulfan Sulfate	0.97	0.080	µg/L	1.00		96.6	40-140			
Endosulfan Sulfate [2C]	0.99	0.080	µg/L	1.00		99.0	40-140			
Endrin	0.95	0.080	µg/L	1.00		94.8	40-140			
Endrin [2C]	0.98	0.080	µg/L	1.00		98.0	40-140			
Endrin Aldehyde	0.94	0.080	µg/L	1.00		94.4	40-140			
Endrin Aldehyde [2C]	0.95	0.080	µg/L	1.00		95.1	40-140			
Endrin Ketone	0.99	0.080	µg/L	1.00		98.8	40-140			
Endrin Ketone [2C]	0.98	0.080	µg/L	1.00		97.5	40-140			
Heptachlor	0.93	0.050	µg/L	1.00		92.9	40-140			
Heptachlor [2C]	1.0	0.050	µg/L	1.00		100	40-140			
Heptachlor Epoxide	0.93	0.050	µg/L	1.00		93.4	40-140			
Heptachlor Epoxide [2C]	0.94	0.050	µg/L	1.00		94.0	40-140			
Hexachlorobenzene	1.0	0.050	µg/L	1.00		103	40-140			
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		104	40-140			
Methoxychlor	0.95	0.50	µg/L	1.00		95.2	40-140			
Methoxychlor [2C]	1.0	0.50	µg/L	1.00		100	40-140			
Surrogate: Decachlorobiphenyl	0.906		µg/L	2.00		45.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.967		µg/L	2.00		48.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.94		µg/L	2.00		96.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.81		µg/L	2.00		90.4	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207088 - SW-846 3510C</b>										
<b>LCS Dup (B207088-BSD1)</b>										
					Prepared: 07/02/18 Analyzed: 07/05/18					
Alachlor	1.3	0.20	µg/L	1.00		126	40-140	22.4		
Alachlor [2C]	1.2	0.20	µg/L	1.00		122	40-140	17.0		
Aldrin	1.0	0.050	µg/L	1.00		103	40-140	4.27		
Aldrin [2C]	0.99	0.050	µg/L	1.00		98.9	40-140	1.29		
alpha-BHC	0.96	0.050	µg/L	1.00		95.8	40-140	0.616		
alpha-BHC [2C]	0.93	0.050	µg/L	1.00		92.9	40-140	2.40		
beta-BHC	0.95	0.050	µg/L	1.00		94.6	40-140	0.705		
beta-BHC [2C]	0.97	0.050	µg/L	1.00		96.5	40-140	5.94		
delta-BHC	1.3	0.050	µg/L	1.00		126	40-140	20.6		
delta-BHC [2C]	0.99	0.050	µg/L	1.00		98.6	40-140	0.00102		
gamma-BHC (Lindane)	1.0	0.030	µg/L	1.00		103	40-140	3.94		
gamma-BHC (Lindane) [2C]	0.99	0.030	µg/L	1.00		98.6	40-140	0.0841		
4,4'-DDD	1.0	0.040	µg/L	1.00		104	40-140	1.74		V-06
4,4'-DDD [2C]	1.0	0.040	µg/L	1.00		102	40-140	1.19		
4,4'-DDE	1.0	0.040	µg/L	1.00		103	40-140	1.70		V-06
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00		99.9	40-140	0.915		
4,4'-DDT	1.0	0.040	µg/L	1.00		102	40-140	2.32		
4,4'-DDT [2C]	1.0	0.040	µg/L	1.00		100	40-140	3.09		
Dieldrin	1.0	0.0020	µg/L	1.00		100	40-140	1.87		
Dieldrin [2C]	0.96	0.0020	µg/L	1.00		95.9	40-140	2.16		
Endosulfan I	0.95	0.050	µg/L	1.00		95.1	40-140	1.80		
Endosulfan I [2C]	0.94	0.050	µg/L	1.00		94.2	40-140	1.97		
Endosulfan II	0.98	0.080	µg/L	1.00		97.7	40-140	1.52		
Endosulfan II [2C]	0.99	0.080	µg/L	1.00		99.2	40-140	1.24		
Endosulfan Sulfate	0.98	0.080	µg/L	1.00		97.5	40-140	0.991		
Endosulfan Sulfate [2C]	1.0	0.080	µg/L	1.00		99.5	40-140	0.512		
Endrin	0.97	0.080	µg/L	1.00		97.3	40-140	2.60		
Endrin [2C]	1.0	0.080	µg/L	1.00		101	40-140	2.63		
Endrin Aldehyde	0.95	0.080	µg/L	1.00		94.8	40-140	0.457		
Endrin Aldehyde [2C]	0.96	0.080	µg/L	1.00		95.8	40-140	0.736		
Endrin Ketone	1.0	0.080	µg/L	1.00		100	40-140	1.55		
Endrin Ketone [2C]	1.0	0.080	µg/L	1.00		99.6	40-140	2.12		
Heptachlor	0.98	0.050	µg/L	1.00		97.6	40-140	4.86		
Heptachlor [2C]	1.1	0.050	µg/L	1.00		108	40-140	7.02		
Heptachlor Epoxide	0.95	0.050	µg/L	1.00		95.3	40-140	2.01		
Heptachlor Epoxide [2C]	0.97	0.050	µg/L	1.00		97.3	40-140	3.38		
Hexachlorobenzene	1.0	0.050	µg/L	1.00		101	40-140	2.09	30	
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		104	40-140	0.453	30	
Methoxychlor	0.97	0.50	µg/L	1.00		97.1	40-140	1.95		
Methoxychlor [2C]	1.0	0.50	µg/L	1.00		105	40-140	4.11		
Surrogate: Decachlorobiphenyl	1.70		µg/L	2.00		85.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.78		µg/L	2.00		89.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.86		µg/L	2.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.74		µg/L	2.00		86.8	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207088 - SW-846 3510C</b>										
<b>Matrix Spike (B207088-MS1)</b>	<b>Source: 18F1465-01</b>			Prepared: 07/02/18 Analyzed: 07/05/18						
Alachlor	0.95	0.20	µg/L	1.00	ND	94.7	30-150			
Alachlor [2C]	0.96	0.20	µg/L	1.00	ND	96.5	30-150			
Aldrin	0.82	0.050	µg/L	1.00	ND	82.2	30-150			V-06
Aldrin [2C]	0.82	0.050	µg/L	1.00	ND	81.6	30-150			
alpha-BHC	0.83	0.050	µg/L	1.00	ND	82.7	30-150			
alpha-BHC [2C]	0.82	0.050	µg/L	1.00	ND	82.2	30-150			V-06
beta-BHC	0.82	0.050	µg/L	1.00	ND	82.1	30-150			
beta-BHC [2C]	0.79	0.050	µg/L	1.00	ND	79.1	30-150			
delta-BHC	0.91	0.050	µg/L	1.00	ND	90.9	30-150			
delta-BHC [2C]	0.86	0.050	µg/L	1.00	ND	86.3	30-150			
gamma-BHC (Lindane)	0.86	0.030	µg/L	1.00	ND	86.2	30-150			V-06
gamma-BHC (Lindane) [2C]	0.87	0.030	µg/L	1.00	ND	86.7	30-150			V-06
4,4'-DDD	0.89	0.040	µg/L	1.00	ND	88.7	30-150			V-06
4,4'-DDD [2C]	0.88	0.040	µg/L	1.00	ND	88.4	30-150			
4,4'-DDE	0.83	0.040	µg/L	1.00	ND	83.3	30-150			V-06
4,4'-DDE [2C]	0.82	0.040	µg/L	1.00	ND	82.1	30-150			
4,4'-DDT	0.81	0.040	µg/L	1.00	ND	81.0	30-150			
4,4'-DDT [2C]	0.80	0.040	µg/L	1.00	ND	80.0	30-150			
Dieldrin	0.89	0.0020	µg/L	1.00	0.015	87.3	30-150			
Dieldrin [2C]	0.85	0.0020	µg/L	1.00	0.0068	84.6	30-150			
Endosulfan I	0.84	0.050	µg/L	1.00	ND	84.3	30-150			
Endosulfan I [2C]	0.77	0.050	µg/L	1.00	ND	77.5	30-150			
Endosulfan II	0.85	0.080	µg/L	1.00	ND	85.3	30-150			
Endosulfan II [2C]	0.89	0.080	µg/L	1.00	ND	89.0	30-150			
Endosulfan Sulfate	0.85	0.080	µg/L	1.00	ND	85.3	30-150			
Endosulfan Sulfate [2C]	0.88	0.080	µg/L	1.00	ND	88.2	30-150			
Endrin	0.85	0.080	µg/L	1.00	ND	84.6	30-150			
Endrin [2C]	0.89	0.080	µg/L	1.00	ND	88.9	30-150			
Endrin Aldehyde	0.83	0.080	µg/L	1.00	ND	83.2	30-150			
Endrin Aldehyde [2C]	0.86	0.080	µg/L	1.00	ND	85.9	30-150			
Endrin Ketone	0.88	0.080	µg/L	1.00	ND	87.9	30-150			
Endrin Ketone [2C]	0.87	0.080	µg/L	1.00	ND	86.9	30-150			
Heptachlor	0.79	0.050	µg/L	1.00	ND	79.1	30-150			
Heptachlor [2C]	0.85	0.050	µg/L	1.00	ND	84.9	30-150			
Heptachlor Epoxide	0.83	0.050	µg/L	1.00	ND	82.6	30-150			
Heptachlor Epoxide [2C]	0.84	0.050	µg/L	1.00	ND	84.3	30-150			
Hexachlorobenzene	0.87	0.050	µg/L	1.00	ND	86.5	30-150			
Hexachlorobenzene [2C]	0.89	0.050	µg/L	1.00	ND	88.7	30-150			
Methoxychlor	0.82	0.50	µg/L	1.00	ND	81.9	30-150			
Methoxychlor [2C]	0.88	0.50	µg/L	1.00	ND	87.8	30-150			
Surrogate: Decachlorobiphenyl	1.07		µg/L	2.00		53.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.13		µg/L	2.00		56.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.57		µg/L	2.00		78.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.52		µg/L	2.00		75.8	30-150			

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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
<b>Batch B207069 - SW-846 3010A</b>										
<b>Blank (B207069-BLK1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Arsenic	ND	2.0	µg/L							
Lead	ND	5.0	µg/L							
<b>LCS (B207069-BS1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Arsenic	518	4.0	µg/L	500		104	80-120			
Lead	522	10	µg/L	500		104	80-120			
<b>LCS Dup (B207069-BSD1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Arsenic	520	4.0	µg/L	500		104	80-120	0.247	20	
Lead	528	10	µg/L	500		106	80-120	1.15	20	
<b>Matrix Spike (B207069-MS1)</b>		<b>Source: 18F1465-04</b>		Prepared: 07/02/18 Analyzed: 07/03/18						
Arsenic	526	4.0	µg/L	500	ND	105	75-125			
Lead	534	10	µg/L	500	3.36	106	75-125			
<b>Batch B207085 - SW-846 7470A Prep</b>										
<b>Blank (B207085-BLK1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Mercury	ND	0.00010	mg/L							
<b>LCS (B207085-BS1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Mercury	0.00190	0.00010	mg/L	0.00200		95.1	80-120			
<b>LCS Dup (B207085-BSD1)</b>				Prepared: 07/02/18 Analyzed: 07/03/18						
Mercury	0.00191	0.00010	mg/L	0.00200		95.5	80-120	0.368	20	
<b>Matrix Spike (B207085-MS1)</b>		<b>Source: 18F1465-04</b>		Prepared: 07/02/18 Analyzed: 07/03/18						
Mercury	0.00192	0.00010	mg/L	0.00200	ND	95.9	75-125			
<b>Batch B207171 - SW-846 3010A</b>										
<b>Blank (B207171-BLK1)</b>				Prepared: 07/03/18 Analyzed: 07/05/18						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							

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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
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**Batch B207171 - SW-846 3010A**

**LCS (B207171-BS1)**

Prepared: 07/03/18 Analyzed: 07/05/18

Antimony	537	10	µg/L	500		107	80-120			
Arsenic	524	4.0	µg/L	500		105	80-120			
Barium	531	100	µg/L	500		106	80-120			
Beryllium	496	4.0	µg/L	500		99.2	80-120			
Cadmium	536	5.0	µg/L	500		107	80-120			
Chromium	528	10	µg/L	500		106	80-120			
Copper	1020	50	µg/L	1000		102	80-120			
Lead	522	10	µg/L	500		104	80-120			
Nickel	523	50	µg/L	500		105	80-120			
Selenium	523	50	µg/L	500		105	80-120			
Silver	525	5.0	µg/L	500		105	80-120			
Thallium	511	2.0	µg/L	500		102	80-120			
Vanadium	514	50	µg/L	500		103	80-120			
Zinc	1040	100	µg/L	1000		104	80-120			

**LCS Dup (B207171-BSD1)**

Prepared: 07/03/18 Analyzed: 07/05/18

Antimony	545	10	µg/L	500		109	80-120	1.47	20	
Arsenic	529	4.0	µg/L	500		106	80-120	0.988	20	
Barium	536	100	µg/L	500		107	80-120	1.01	20	
Beryllium	499	4.0	µg/L	500		99.7	80-120	0.492	20	
Cadmium	544	5.0	µg/L	500		109	80-120	1.55	20	
Chromium	538	10	µg/L	500		108	80-120	1.86	20	
Copper	1030	50	µg/L	1000		103	80-120	0.867	20	
Lead	530	10	µg/L	500		106	80-120	1.36	20	
Nickel	528	50	µg/L	500		106	80-120	1.05	20	
Selenium	524	50	µg/L	500		105	80-120	0.124	20	
Silver	525	5.0	µg/L	500		105	80-120	0.0740	20	
Thallium	517	2.0	µg/L	500		103	80-120	1.07	20	
Vanadium	521	50	µg/L	500		104	80-120	1.39	20	
Zinc	1060	100	µg/L	1000		106	80-120	1.31	20	

**Batch B207275 - SW-846 7470A Prep**

**Blank (B207275-BLK1)**

Prepared & Analyzed: 07/05/18

Mercury	ND	0.00010	mg/L							
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**LCS (B207275-BS1)**

Prepared & Analyzed: 07/05/18

Mercury	0.00175	0.00010	mg/L	0.00200		87.5	80-120			
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**LCS Dup (B207275-BSD1)**

Prepared & Analyzed: 07/05/18

Mercury	0.00170	0.00010	mg/L	0.00200		85.1	80-120	2.78	20	
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## BREAKDOWN REPORT

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**Lab Sample ID:** S024956-PEM1 **Analyzed:** 07/03/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 0.87  
Endrin [1] 3.00

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 1.66  
Endrin [2] 3.52

---

## BREAKDOWN REPORT

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**Lab Sample ID:** S024956-PEM2 **Analyzed:** 07/03/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 1.29  
Endrin [1] 3.13

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 2.29  
Endrin [2] 3.47

---

## BREAKDOWN REPORT

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**Lab Sample ID:** S024956-PEM3 **Analyzed:** 07/03/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 1.32  
Endrin [1] 2.60

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## BREAKDOWN REPORT

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**Lab Sample ID:** S024956-PEM3 **Analyzed:** 07/03/2018

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 2.57  
Endrin [2] 3.30

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## BREAKDOWN REPORT

---

**Lab Sample ID:** S024956-PEM4 **Analyzed:** 07/04/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 1.60  
Endrin [1] 2.82

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 2.90  
Endrin [2] 3.32

---

## BREAKDOWN REPORT

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**Lab Sample ID:** S024987-PEM1 **Analyzed:** 07/05/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 3.47  
Endrin [1] 4.21

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 5.41  
Endrin [2] 4.86

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## BREAKDOWN REPORT

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

BREAKDOWN REPORT

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Lab Sample ID: S024987-PEM2 Analyzed: 07/05/2018

---

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.63
Endrin [1]	3.27

---

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.81
Endrin [2]	3.61

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Scoreboard Trench 01 (0-2)**

*SW-846 8081B*

Lab Sample ID: 18F1465-01 Date(s) Analyzed: 07/05/2018 07/05/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Dieldrin	1	7.471	0.000	0.000	0.015	
	2	7.413	0.000	0.000	0.0068	75.2

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

<b>Scoreboard Trench 01 (0-2)</b>
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Lab Sample ID: 18F1465-01RE1 Date(s) Analyzed: 07/04/2018 07/04/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.228	7.198	7.258	0.026	
	2	7.286	7.257	7.317	0.028	3.6
4,4'-DDT	1	7.907	7.877	7.937	0.028	
	2	7.980	7.950	8.010	0.028	0.0
Chlordane	1	0.000	-0.030	0.030	0.046	
	2	0.000	-0.030	0.030	0.034	30.0
Dieldrin	1	7.475	7.441	7.501	0.0097	
	2	7.417	7.388	7.448	0.0054	57.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Scoreboard Trench 02 (0-2)**

*SW-846 8081B*

Lab Sample ID: 18F1465-02RE1 Date(s) Analyzed: 07/04/2018 07/04/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.227	7.198	7.258	0.0078	
	2	7.287	7.257	7.317	0.0083	6.2
4,4'-DDT	1	7.906	7.877	7.937	0.0060	
	2	7.980	7.950	8.010	0.0059	1.7

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Scoreboard Trench 04 (0-2)**

*SW-846 8081B*

Lab Sample ID: 18F1465-04RE1 Date(s) Analyzed: 07/04/2018 07/04/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.227	7.198	7.258	0.0097	
	2	7.287	7.257	7.317	0.0098	0.0
4,4'-DDT	1	7.907	7.877	7.937	0.0077	
	2	7.981	7.950	8.010	0.0068	12.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**School Front 20180628 (0-2)**

Lab Sample ID: 18F1465-05RE1 Date(s) Analyzed: 07/04/2018 07/04/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.227	7.198	7.258	0.014	
	2	7.286	7.257	7.317	0.015	6.9
4,4'-DDT	1	7.906	7.877	7.937	0.0094	
	2	7.980	7.950	8.010	0.0098	4.2



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8081B*

Lab Sample ID:                     B206894-BS1                                          Date(s) Analyzed:           07/03/2018                     07/03/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.608	8.581	8.641	0.084	2.4
gamma-BHC (Lindane)	1	5.993	5.965	6.025	0.082	
	2	5.963	5.934	5.994	0.082	1.2
gamma-Chlordane	1	7.085	7.057	7.117	0.078	
	2	7.055	7.027	7.087	0.082	5.0
Heptachlor	1	6.330	6.301	6.361	0.080	
	2	6.268	6.240	6.300	0.084	4.9
Heptachlor Epoxide	1	6.993	6.965	7.025	0.080	
	2	6.915	6.888	6.948	0.080	0.0
Hexachlorobenzene	1	5.662	5.633	5.693	0.085	
	2	5.631	5.602	5.662	0.083	2.4
Methoxychlor	1	8.249	8.221	8.281	0.085	
	2	8.451	8.424	8.484	0.087	2.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**LCS Dup**

Lab Sample ID:                     B206894-BSD1                          Date(s) Analyzed:           07/03/2018                     07/03/2018          

Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                    

GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.693	7.665	7.725	0.091	
	2	7.740	7.712	7.772	0.089	2.2
4,4'-DDE	1	7.232	7.205	7.265	0.091	
	2	7.290	7.261	7.321	0.088	3.4
4,4'-DDT	1	7.911	7.884	7.944	0.090	
	2	7.983	7.955	8.015	0.087	3.4
Alachlor	1	6.635	6.607	6.667	0.11	
	2	6.418	6.390	6.450	0.099	19.2
Aldrin	1	6.549	6.520	6.580	0.085	
	2	6.499	6.471	6.531	0.083	2.4
alpha-BHC	1	5.776	5.747	5.807	0.081	
	2	5.725	5.696	5.756	0.080	1.2
alpha-Chlordane	1	7.185	7.158	7.218	0.082	
	2	7.166	7.138	7.198	0.084	2.4
beta-BHC	1	6.048	6.019	6.079	0.082	
	2	6.016	5.987	6.047	0.074	10.3
delta-BHC	1	6.176	6.147	6.207	0.086	
	2	6.221	6.192	6.252	0.083	3.6
Dieldrin	1	7.475	7.448	7.508	0.087	
	2	7.421	7.392	7.452	0.083	4.7
Endosulfan I	1	7.293	7.266	7.326	0.082	
	2	7.211	7.184	7.244	0.080	3.7
Endosulfan II	1	7.831	7.803	7.863	0.086	
	2	7.823	7.795	7.855	0.088	2.3
Endosulfan Sulfate	1	8.430	8.402	8.462	0.083	
	2	8.270	8.242	8.302	0.087	4.7
Endrin	1	7.658	7.630	7.690	0.085	
	2	7.658	7.629	7.689	0.086	1.2
Endrin Aldehyde	1	8.139	8.111	8.171	0.084	
	2	8.078	8.050	8.110	0.086	2.4
Endrin Ketone	1	8.606	8.579	8.639	0.088	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8081B*

Lab Sample ID:                     B206894-BSD1                                          Date(s) Analyzed:           07/03/2018                     07/03/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.609	8.581	8.641	0.086	2.3
gamma-BHC (Lindane)	1	5.993	5.965	6.025	0.085	
	2	5.963	5.934	5.994	0.085	0.0
gamma-Chlordane	1	7.085	7.057	7.117	0.080	
	2	7.055	7.027	7.087	0.085	6.1
Heptachlor	1	6.330	6.301	6.361	0.082	
	2	6.269	6.240	6.300	0.087	5.9
Heptachlor Epoxide	1	6.993	6.965	7.025	0.082	
	2	6.916	6.888	6.948	0.082	0.0
Hexachlorobenzene	1	5.662	5.633	5.693	0.088	
	2	5.631	5.602	5.662	0.087	1.1
Methoxychlor	1	8.249	8.221	8.281	0.086	
	2	8.451	8.424	8.484	0.089	3.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

LCS
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Lab Sample ID: B207014-BS1 Date(s) Analyzed: 07/05/2018 07/05/2018

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

LCS Dup
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Lab Sample ID:                     B207014-BSD1                                          Date(s) Analyzed:           07/05/2018                     07/05/2018          

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

LCS
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Lab Sample ID:                     B207088-BS1                                          Date(s) Analyzed:           07/05/2018                     07/05/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.959	0.000	0.000	0.99	0.0
Heptachlor	1	6.321	0.000	0.000	0.93	
	2	6.264	0.000	0.000	1.0	7.3
Heptachlor Epoxide	1	6.984	0.000	0.000	0.93	
	2	6.910	0.000	0.000	0.94	1.1
Hexachlorobenzene	1	5.655	0.000	0.000	1.0	
	2	5.627	0.000	0.000	1.0	0.0
Methoxychlor	1	8.240	0.000	0.000	0.95	
	2	8.446	0.000	0.000	1.0	5.1

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**LCS Dup**

Lab Sample ID:                     B207088-BSD1                          Date(s) Analyzed:           07/05/2018                     07/05/2018            
 Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.683	0.000	0.000	1.0	
	2	7.734	0.000	0.000	1.0	0.0
4,4'-DDE	1	7.222	0.000	0.000	1.0	
	2	7.284	0.000	0.000	1.0	0.0
4,4'-DDT	1	7.902	0.000	0.000	1.0	
	2	7.978	0.000	0.000	1.0	0.0
Alachlor	1	6.625	0.000	0.000	1.3	
	2	6.412	0.000	0.000	1.2	8.0
Aldrin	1	6.540	0.000	0.000	1.0	
	2	6.494	0.000	0.000	0.99	1.0
alpha-BHC	1	5.768	0.000	0.000	0.96	
	2	5.720	0.000	0.000	0.93	3.2
beta-BHC	1	6.039	0.000	0.000	0.95	
	2	6.011	0.000	0.000	0.97	2.1
delta-BHC	1	6.167	0.000	0.000	1.3	
	2	6.215	0.000	0.000	0.99	27.1
Dieldrin	1	7.466	0.000	0.000	1.0	
	2	7.415	0.000	0.000	0.96	4.1
Endosulfan I	1	7.283	0.000	0.000	0.95	
	2	7.206	0.000	0.000	0.94	1.1
Endosulfan II	1	7.820	0.000	0.000	0.98	
	2	7.817	0.000	0.000	0.99	1.0
Endosulfan Sulfate	1	8.421	0.000	0.000	0.98	
	2	8.265	0.000	0.000	1.0	2.0
Endrin	1	7.647	0.000	0.000	0.97	
	2	7.651	0.000	0.000	1.0	3.1
Endrin Aldehyde	1	8.129	0.000	0.000	0.95	
	2	8.072	0.000	0.000	0.96	1.1
Endrin Ketone	1	8.597	0.000	0.000	1.0	
	2	8.604	0.000	0.000	1.0	0.0
gamma-BHC (Lindane)	1	5.985	0.000	0.000	1.0	



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**Matrix Spike**

Lab Sample ID:                     B207088-MS1                          Date(s) Analyzed:           07/05/2018                     07/05/2018            
 Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.681	0.000	0.000	0.89	
	2	7.733	0.000	0.000	0.88	1.1
4,4'-DDE	1	7.221	0.000	0.000	0.83	
	2	7.283	0.000	0.000	0.82	1.2
4,4'-DDT	1	7.899	0.000	0.000	0.81	
	2	7.977	0.000	0.000	0.80	1.2
Alachlor	1	6.624	0.000	0.000	0.95	
	2	6.412	0.000	0.000	0.96	1.1
Aldrin	1	6.538	0.000	0.000	0.82	
	2	6.493	0.000	0.000	0.82	0.0
alpha-BHC	1	5.767	0.000	0.000	0.83	
	2	5.720	0.000	0.000	0.82	1.2
beta-BHC	1	6.038	0.000	0.000	0.82	
	2	6.011	0.000	0.000	0.79	3.7
delta-BHC	1	6.165	0.000	0.000	0.91	
	2	6.215	0.000	0.000	0.86	5.7
Dieldrin	1	7.463	0.000	0.000	0.89	
	2	7.414	0.000	0.000	0.85	4.6
Endosulfan I	1	7.281	0.000	0.000	0.84	
	2	7.205	0.000	0.000	0.77	8.7
Endosulfan II	1	7.817	0.000	0.000	0.85	
	2	7.816	0.000	0.000	0.89	4.6
Endosulfan Sulfate	1	8.419	0.000	0.000	0.85	
	2	8.264	0.000	0.000	0.88	3.5
Endrin	1	7.645	0.000	0.000	0.85	
	2	7.650	0.000	0.000	0.89	4.6
Endrin Aldehyde	1	8.126	0.000	0.000	0.83	
	2	8.071	0.000	0.000	0.86	3.6
Endrin Ketone	1	8.595	0.000	0.000	0.88	
	2	8.603	0.000	0.000	0.87	1.1
gamma-BHC (Lindane)	1	5.983	0.000	0.000	0.86	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B207088-MS1                                          Date(s) Analyzed:           07/05/2018                     07/05/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.958	0.000	0.000	0.87	1.2
Heptachlor	1	6.319	0.000	0.000	0.79	
	2	6.263	0.000	0.000	0.85	7.3
Heptachlor Epoxide	1	6.981	0.000	0.000	0.83	
	2	6.910	0.000	0.000	0.84	1.2
Hexachlorobenzene	1	5.654	0.000	0.000	0.87	
	2	5.626	0.000	0.000	0.89	2.3
Methoxychlor	1	8.238	0.000	0.000	0.82	
	2	8.446	0.000	0.000	0.88	7.1

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>SW-846 6010C-D in Soil</b>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<b>SW-846 7471B in Soil</b>	
Mercury	CT,NH,NY,NC,ME,VA
<b>SW-846 8081B in Soil</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 8081B in Soil</b>	
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b>SW-846 8081B in Water</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b><i>SW-846 8081B in Water</i></b>	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b><i>SW-846 8082A in Soil</i></b>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<b><i>SW-846 8270D in Soil</i></b>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018

18F1405

Phone: 413-525-2332  
Fax: 413-525-6405

Email: info@contestlabs.com

AECOM CORP

Address: Commerce Drive, Rocky Hill, CT

Phone: GREENWICH HIGH SCHOOL

Project Name: GREENWICH, CT

Project Location: 604 32351

Project Number: MATT ROAD

Project Manager: JOHN CRESPO

Con-Test Quote Name/Number: -

Invoice Recipient: -

Sampled By: -



**Requested Turnaround Time**

7-Day  10-Day

Due Date: **STANDARD**

**Rush Approval Required**

1-Day  3-Day

2-Day  4-Day

**Data Delivery**

Format: PDF  EXCEL

Other:

CLP Like Data Pkg Required:

Email To:

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	SCORE BOARD TRENCH 01 (0-2)	6/23/18 10:00	-	-	✓	S	U
02	SCORE BOARD TRENCH 02 (0-2)	6/23/18 10:35	-	-	✓	S	U
03	SCORE BOARD TRENCH 03 (0-2)	6/23/18 11:05	-	-	✓	S	U
04	SCORE BOARD TRENCH 04 (0-2)	6/23/18 11:50	-	-	✓	S	U
05	SCHOOL FRONT 20180628 (0-2)	6/28/18 13:35	-	-	✓	S	U
06	H27-58603 (1-2)	6/28/18 14:25	-	-	✓	S	U
07	DUP 20180628	6/28/18 7:00	-	-	✓	S	U

Comments: **NOTE: HOLD H27-58603 (1-2) UNTIL PROGRAM DISCUSSION FROM MATT ROAD FOR SPERANALYSIS**

**R DEC JARNC**

**Special Requirements**

MA MCP Required

MCP Certification Form Required

CT MCP Required

CT Certification Form Required

MA State DW Required

PWSID #

**Detection Limit Requirements**

MA

CT

**Project Entity**

Government  Municipality  Other

Federal  21 J  School  Chromatogram

City  Brownfield  MBTA  AIHA-LAP, LLC

**PCB ONLY**

Soxhlet

Non Soxhlet





Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False**

**Statement will be brought to the attention of the Client - State True or False**

Client Accom Corp  
 Received By Mmp Date 6/28/18 Time 1930  
 How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
 Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_  
 Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.3  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
 Was Custody Seal Intact? MA Were Samples Tampered with? MA  
 Was COC Relinquished? T Does Chain Agree With Samples? T  
 Are there broken/leaking/loose caps on any samples? F  
 Is COC in ink/ Legible? T Were samples received within holding time? T  
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
 Project T ID's F Collection Dates/Times T  
 Are Sample labels filled out and legible? T  
 Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
 Are there Rushes? F Who was notified? \_\_\_\_\_  
 Are there Short Holds? F Who was notified? \_\_\_\_\_  
 Is there enough Volume? T  
 Is there Headspace where applicable? F MS/MSD? F  
 Proper Media/Containers Used? T Is splitting samples required? F  
 Were trip blanks received? F On COC? F  
 Do all samples have the proper pH? MA Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Comments:**

X:\HPCHEM\1\DATA\A070318\A0703006.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name A0703006.D  
 Data File Path X:\HPCHEM\1\DATA\A070318\  
 Date Acquired 7/3/2018 9:27  
 Operator RMW  
 Acq. Method File ETPH18.M  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Name	Ret Time	Target Response	Avg Response	%D+/-20
c - 9	1.01	640956	677067	5
c - 10	1.34	657242	677067	3
c - 12	2.05	668384	677067	1
c - 14	2.72	676501	677067	0
c - 16	3.31	684089	677067	-1
c - 18	3.88	681193	677067	-1
c - 20	4.49	682138	677067	-1
c - 22	5.01	682397	677067	-1
c - 24	5.46	677668	677067	0
c - 26	5.86	676597	677067	0
c - 28	6.22	681106	677067	-1
c - 30	6.55	692331	677067	-2
c - 32	6.86	679067	677067	0
c - 34	7.15	682636	677067	-1
c - 36	7.42	693706	677067	-2

**Samples**

\*One compound allowed %D &lt;=50%

18G0050-01  
 18G0050-02  
 18G0050-04  
 18G0050-05  
 18F1503-11  
 18G0050-03  
 18F1465-05RE1  
 18F1503-02



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18F1465

**Laboratory Sample ID(s):**

**Sample Date(s):**

18F1465-01 thru 18F1465-07

06/28/2018

*List RCP Methods Used:*

CTDEP ETPH, SW-846 1312, SW-846 6010C-D, SW-846 6020A-B, SW-846 7470A, SW-846 7471B, SW-846 8081B, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 07/06/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 11, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich High School  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18G0089

Enclosed are results of analyses for samples received by the laboratory on July 3, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 7/11/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18G0089

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

PROJECT LOCATION: Greenwich High School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
I26-SB607 (0-1')	18G0089-01	Soil		SM 2540G SW-846 8081B	
H26-SB613 (0-1')	18G0089-02	Soil		SM 2540G SW-846 8081B	
I27-SB608 (0-1')	18G0089-03	Soil		SM 2540G SW-846 8081B	
H27-SB604 (1-2')	18G0089-04	Soil		SM 2540G SW-846 8081B	
G27-SB612 (0-1')	18G0089-05	Soil		SM 2540G SW-846 8081B	
H28-SB605 (0-1')	18G0089-06	Soil		SM 2540G SW-846 8081B	
H29-SB609 (0-1)	18G0089-07	Soil		SM 2540G SW-846 8081B	
G28-SB611 (0-1')	18G0089-08	Soil		SM 2540G SW-846 8081B	
G29-SB610 (0-1')	18G0089-09	Soil		SM 2540G SW-846 8081B	
G29-SB606 (0-1')	18G0089-10	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8081B****Qualifications:****P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

**Analyte & Samples(s) Qualified:****Chlordane [2C]**

18G0089-06[H28-SB605 (0-1')], 18G0089-07[H29-SB609 (0-1)], 18G0089-10[G29-SB606 (0-1')]

**V-20**

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

**Analyte & Samples(s) Qualified:****4,4'-DDD**

18G0089-03[I27-SB608 (0-1')], 18G0089-04[H27-SB604 (1-2')]

**4,4'-DDE**

18G0089-03[I27-SB608 (0-1')], 18G0089-04[H27-SB604 (1-2')]

**alpha-BHC**

18G0089-03[I27-SB608 (0-1')], 18G0089-04[H27-SB604 (1-2')]

**delta-BHC**

18G0089-03[I27-SB608 (0-1')], 18G0089-04[H27-SB604 (1-2')]

**gamma-BHC (Lindane)**

18G0089-03[I27-SB608 (0-1')], 18G0089-04[H27-SB604 (1-2')]

**Hexachlorobenzene**

18G0089-03[I27-SB608 (0-1')], 18G0089-04[H27-SB604 (1-2')]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: I26-SB607 (0-1')

Sampled: 7/3/2018 07:35

Sample ID: 18G0089-01

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.12	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Aldrin [1]	ND	0.030	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
alpha-BHC [1]	ND	0.030	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
beta-BHC [1]	ND	0.030	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
delta-BHC [1]	ND	0.030	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
gamma-BHC (Lindane) [1]	ND	0.012	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Chlordane [2]	1.7	0.12	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
4,4'-DDD [1]	ND	0.024	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
4,4'-DDE [1]	ND	0.024	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
4,4'-DDT [1]	ND	0.024	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Dieldrin [1]	ND	0.024	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Endosulfan I [1]	ND	0.030	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Endosulfan II [1]	ND	0.048	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Endosulfan sulfate [1]	ND	0.048	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Endrin [1]	ND	0.048	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Endrin aldehyde [1]	ND	0.048	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Endrin ketone [1]	ND	0.048	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Heptachlor [1]	ND	0.030	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Heptachlor epoxide [1]	0.073	0.030	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Hexachlorobenzene [1]	ND	0.036	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Methoxychlor [1]	ND	0.30	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Toxaphene [1]	ND	0.60	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 9:33	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		60.9	30-150					7/10/18 9:33	
Decachlorobiphenyl [2]		71.5	30-150					7/10/18 9:33	
Tetrachloro-m-xylene [1]		69.1	30-150					7/10/18 9:33	
Tetrachloro-m-xylene [2]		68.5	30-150					7/10/18 9:33	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: 126-SB607 (0-1')

Sampled: 7/3/2018 07:35

Sample ID: 18G0089-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	7/5/18	7/6/18 8:58	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H26-SB613 (0-1')

Sampled: 7/3/2018 08:00

Sample ID: 18G0089-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.13	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Aldrin [1]	ND	0.033	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
alpha-BHC [1]	ND	0.033	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
beta-BHC [1]	ND	0.033	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
delta-BHC [1]	ND	0.033	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
gamma-BHC (Lindane) [1]	ND	0.013	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Chlordane [2]	1.8	0.13	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
4,4'-DDD [1]	ND	0.027	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
4,4'-DDE [1]	0.029	0.027	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
4,4'-DDT [2]	0.035	0.027	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Dieldrin [1]	ND	0.027	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Endosulfan I [1]	ND	0.033	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Endosulfan II [1]	ND	0.053	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Endosulfan sulfate [1]	ND	0.053	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Endrin [1]	ND	0.053	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Endrin aldehyde [1]	ND	0.053	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Endrin ketone [1]	ND	0.053	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Heptachlor [1]	ND	0.033	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Heptachlor epoxide [1]	0.14	0.033	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Hexachlorobenzene [1]	ND	0.040	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Methoxychlor [1]	ND	0.33	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Toxaphene [1]	ND	0.67	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 10:27	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.2	30-150					7/10/18 10:27	
Decachlorobiphenyl [2]		76.7	30-150					7/10/18 10:27	
Tetrachloro-m-xylene [1]		73.9	30-150					7/10/18 10:27	
Tetrachloro-m-xylene [2]		72.3	30-150					7/10/18 10:27	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H26-SB613 (0-1')

Sampled: 7/3/2018 08:00

Sample ID: 18G0089-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.0		% Wt	1		SM 2540G	7/5/18	7/6/18 8:58	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: I27-SB608 (0-1')

Sampled: 7/3/2018 08:20

Sample ID: 18G0089-03

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Aldrin [2]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 18:33	TG
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
delta-BHC [1]	ND	0.0058	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 18:33	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 18:33	TG
Chlordane [2]	0.29	0.023	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
4,4'-DDD [2]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 18:33	TG
4,4'-DDT [2]	0.011	0.0046	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Heptachlor [2]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Heptachlor epoxide [1]	0.021	0.0058	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 18:33	TG
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 18:33	TG
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
Decachlorobiphenyl [1]		66.1	30-150					7/9/18 18:33	
Decachlorobiphenyl [2]		73.0	30-150					7/9/18 18:33	
Tetrachloro-m-xylene [1]		73.1	30-150					7/9/18 18:33	
Tetrachloro-m-xylene [2]		66.9	30-150					7/9/18 18:33	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: I27-SB608 (0-1')

Sampled: 7/3/2018 08:20

Sample ID: 18G0089-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.6		% Wt	1		SM 2540G	7/5/18	7/6/18 8:58	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H27-SB604 (1-2')

Sampled: 7/3/2018 09:07

Sample ID: 18G0089-04

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Aldrin [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 19:01	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 19:01	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 19:01	TG
Chlordane [2]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
4,4'-DDE [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
4,4'-DDT [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Endosulfan II [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Endosulfan sulfate [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Endrin [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Endrin aldehyde [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Endrin ketone [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Heptachlor epoxide [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Hexachlorobenzene [1]	ND	0.0066	mg/Kg dry	1	V-20	SW-846 8081B	7/3/18	7/9/18 19:01	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/3/18	7/9/18 19:01	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		51.3	30-150					7/9/18 19:01	
Decachlorobiphenyl [2]		57.4	30-150					7/9/18 19:01	
Tetrachloro-m-xylene [1]		59.8	30-150					7/9/18 19:01	
Tetrachloro-m-xylene [2]		56.2	30-150					7/9/18 19:01	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H27-SB604 (1-2')

Sampled: 7/3/2018 09:07

Sample ID: 18G0089-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	7/5/18	7/6/18 8:58	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G27-SB612 (0-1')

Sampled: 7/3/2018 09:36

Sample ID: 18G0089-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.047	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Aldrin [1]	ND	0.012	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
alpha-BHC [1]	ND	0.012	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
beta-BHC [1]	ND	0.012	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
delta-BHC [1]	ND	0.012	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
gamma-BHC (Lindane) [1]	ND	0.0047	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Chlordane [2]	0.96	0.047	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
4,4'-DDD [1]	ND	0.0095	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
4,4'-DDE [1]	0.030	0.0095	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
4,4'-DDT [2]	0.022	0.0095	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Dieldrin [1]	ND	0.0095	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Endosulfan I [1]	ND	0.012	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Endosulfan II [1]	ND	0.019	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Endosulfan sulfate [1]	ND	0.019	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Endrin [1]	ND	0.019	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Endrin aldehyde [1]	ND	0.019	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Endrin ketone [1]	ND	0.019	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Heptachlor [1]	ND	0.012	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Heptachlor epoxide [1]	0.086	0.012	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Hexachlorobenzene [1]	ND	0.014	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Methoxychlor [1]	ND	0.12	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Toxaphene [1]	ND	0.24	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 10:54	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		59.4	30-150					7/10/18 10:54	
Decachlorobiphenyl [2]		68.5	30-150					7/10/18 10:54	
Tetrachloro-m-xylene [1]		68.2	30-150					7/10/18 10:54	
Tetrachloro-m-xylene [2]		65.8	30-150					7/10/18 10:54	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G27-SB612 (0-1')

Sampled: 7/3/2018 09:36

Sample ID: 18G0089-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	7/5/18	7/6/18 8:59	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H28-SB605 (0-1')

Sample ID: 18G0089-06

Start Date/Time: 7/3/2018 10:05:00AM

Sample Matrix: Soil

Stop Date/Time: 7/3/2018 10:09:00AM

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Chlordane [2]	0.096	0.022	mg/Kg dry	1	P-01	SW-846 8081B	7/3/18	7/10/18 13:38	TG
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Endosulfan II [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Endosulfan sulfate [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Endrin [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Endrin aldehyde [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Endrin ketone [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Hexachlorobenzene [1]	ND	0.0066	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/3/18	7/10/18 13:38	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		54.6	30-150					7/10/18 13:38	
Decachlorobiphenyl [2]		63.8	30-150					7/10/18 13:38	
Tetrachloro-m-xylene [1]		59.9	30-150					7/10/18 13:38	
Tetrachloro-m-xylene [2]		56.5	30-150					7/10/18 13:38	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H28-SB605 (0-1')

Sample ID: 18G0089-06

Start Date/Time: 7/3/2018 10:05:00AM

Sample Matrix: Soil

Stop Date/Time: 7/3/2018 10:09:00AM

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	91.1		% Wt	1		SM 2540G	7/5/18	7/6/18 8:59	MRL

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Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H29-SB609 (0-1)

Sampled: 7/3/2018 10:32

Sample ID: 18G0089-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.044	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Aldrin [1]	ND	0.011	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
alpha-BHC [1]	ND	0.011	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
beta-BHC [1]	ND	0.011	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
delta-BHC [1]	ND	0.011	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
gamma-BHC (Lindane) [1]	ND	0.0044	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Chlordane [2]	0.68	0.044	mg/Kg dry	2	P-01	SW-846 8081B	7/3/18	7/10/18 11:22	TG
4,4'-DDD [1]	ND	0.0087	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
4,4'-DDE [2]	0.0091	0.0087	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
4,4'-DDT [2]	0.0099	0.0087	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Dieldrin [1]	ND	0.0087	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Endosulfan I [1]	ND	0.011	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Endosulfan II [1]	ND	0.017	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Endosulfan sulfate [1]	ND	0.017	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Endrin [1]	ND	0.017	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Endrin aldehyde [1]	ND	0.017	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Endrin ketone [1]	ND	0.017	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Heptachlor [1]	ND	0.011	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Heptachlor epoxide [1]	0.020	0.011	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Hexachlorobenzene [1]	ND	0.013	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Methoxychlor [1]	ND	0.11	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
Toxaphene [1]	ND	0.22	mg/Kg dry	2		SW-846 8081B	7/3/18	7/10/18 11:22	TG
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
Decachlorobiphenyl [1]		57.3	30-150					7/10/18 11:22	
Decachlorobiphenyl [2]		65.6	30-150					7/10/18 11:22	
Tetrachloro-m-xylene [1]		63.0	30-150					7/10/18 11:22	
Tetrachloro-m-xylene [2]		60.9	30-150					7/10/18 11:22	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: H29-SB609 (0-1)

Sampled: 7/3/2018 10:32

Sample ID: 18G0089-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.6		% Wt	1		SM 2540G	7/5/18	7/6/18 8:59	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G28-SB611 (0-1')

Sampled: 7/3/2018 11:05

Sample ID: 18G0089-08

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.13	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Aldrin [1]	ND	0.032	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
alpha-BHC [1]	ND	0.032	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
beta-BHC [1]	ND	0.032	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
delta-BHC [1]	ND	0.032	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
gamma-BHC (Lindane) [1]	ND	0.013	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Chlordane [2]	2.5	0.13	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
4,4'-DDD [1]	ND	0.026	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
4,4'-DDE [1]	0.055	0.026	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
4,4'-DDT [2]	0.037	0.026	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Dieldrin [1]	ND	0.026	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Endosulfan I [1]	ND	0.032	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Endosulfan II [1]	ND	0.052	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Endosulfan sulfate [1]	ND	0.052	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Endrin [1]	ND	0.052	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Endrin aldehyde [1]	ND	0.052	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Endrin ketone [1]	ND	0.052	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Heptachlor [1]	ND	0.032	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Heptachlor epoxide [1]	0.21	0.032	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Hexachlorobenzene [1]	ND	0.039	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Methoxychlor [1]	ND	0.32	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Toxaphene [1]	ND	0.65	mg/Kg dry	5		SW-846 8081B	7/3/18	7/10/18 11:49	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		59.2	30-150					7/10/18 11:49	
Decachlorobiphenyl [2]		68.0	30-150					7/10/18 11:49	
Tetrachloro-m-xylene [1]		66.4	30-150					7/10/18 11:49	
Tetrachloro-m-xylene [2]		66.5	30-150					7/10/18 11:49	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G28-SB611 (0-1')

Sampled: 7/3/2018 11:05

Sample ID: 18G0089-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.5		% Wt	1		SM 2540G	7/5/18	7/6/18 8:59	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G29-SB610 (0-1')

Sampled: 7/3/2018 11:28

Sample ID: 18G0089-09

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.50	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Aldrin [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
alpha-BHC [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
beta-BHC [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
delta-BHC [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
gamma-BHC (Lindane) [1]	ND	0.050	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Chlordane [2]	7.4	0.50	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
4,4'-DDD [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
4,4'-DDE [1]	0.10	0.10	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
4,4'-DDT [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Dieldrin [1]	ND	0.10	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Endosulfan I [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Endosulfan II [1]	ND	0.20	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Endosulfan sulfate [1]	ND	0.20	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Endrin [1]	ND	0.20	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Endrin aldehyde [1]	ND	0.20	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Endrin ketone [1]	ND	0.20	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Heptachlor [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Heptachlor epoxide [1]	0.64	0.12	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Hexachlorobenzene [1]	ND	0.15	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Methoxychlor [1]	ND	1.2	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Toxaphene [1]	ND	2.5	mg/Kg dry	20		SW-846 8081B	7/3/18	7/10/18 12:16	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		63.2	30-150					7/10/18 12:16	
Decachlorobiphenyl [2]		75.1	30-150					7/10/18 12:16	
Tetrachloro-m-xylene [1]		70.2	30-150					7/10/18 12:16	
Tetrachloro-m-xylene [2]		71.4	30-150					7/10/18 12:16	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G29-SB610 (0-1')

Sampled: 7/3/2018 11:28

Sample ID: 18G0089-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	7/5/18	7/6/18 8:59	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G29-SB606 (0-1')

Sampled: 7/3/2018 11:50

Sample ID: 18G0089-10

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Aldrin [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
alpha-BHC [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
beta-BHC [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
delta-BHC [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
gamma-BHC (Lindane) [1]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Chlordane [2]	0.10	0.024	mg/Kg dry	1	P-01	SW-846 8081B	7/3/18	7/11/18 10:46	TG
4,4'-DDD [2]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
4,4'-DDE [2]	0.028	0.0048	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
4,4'-DDT [2]	0.027	0.0048	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Dieldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Endosulfan I [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Endosulfan II [1]	ND	0.0097	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Endosulfan sulfate [2]	ND	0.0097	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Endrin [1]	ND	0.0097	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Endrin aldehyde [1]	ND	0.0097	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Endrin ketone [2]	ND	0.0097	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Heptachlor [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Heptachlor epoxide [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Hexachlorobenzene [1]	ND	0.0073	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Methoxychlor [2]	ND	0.061	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	7/3/18	7/11/18 10:46	TG
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
Decachlorobiphenyl [1]		86.0	30-150					7/11/18 10:46	
Decachlorobiphenyl [2]		73.8	30-150					7/11/18 10:46	
Tetrachloro-m-xylene [1]		70.0	30-150					7/11/18 10:46	
Tetrachloro-m-xylene [2]		59.1	30-150					7/11/18 10:46	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0089

Date Received: 7/3/2018

Field Sample #: G29-SB606 (0-1')

Sampled: 7/3/2018 11:50

Sample ID: 18G0089-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/5/18	7/6/18 8:59	MRL

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18G0089-01 [I26-SB607 (0-1')]	B207237	07/05/18
18G0089-02 [H26-SB613 (0-1')]	B207237	07/05/18
18G0089-03 [I27-SB608 (0-1')]	B207237	07/05/18
18G0089-04 [H27-SB604 (1-2')]	B207237	07/05/18
18G0089-05 [G27-SB612 (0-1')]	B207237	07/05/18
18G0089-06 [H28-SB605 (0-1')]	B207237	07/05/18
18G0089-07 [H29-SB609 (0-1')]	B207237	07/05/18
18G0089-08 [G28-SB611 (0-1')]	B207237	07/05/18
18G0089-09 [G29-SB610 (0-1')]	B207237	07/05/18
18G0089-10 [G29-SB606 (0-1')]	B207237	07/05/18

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18G0089-01 [I26-SB607 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-02 [H26-SB613 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-03 [I27-SB608 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-04 [H27-SB604 (1-2')]	B207213	10.0	10.0	07/03/18
18G0089-05 [G27-SB612 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-06 [H28-SB605 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-07 [H29-SB609 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-08 [G28-SB611 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-09 [G29-SB610 (0-1')]	B207213	10.0	10.0	07/03/18
18G0089-10 [G29-SB606 (0-1')]	B207213	10.0	10.0	07/03/18

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**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
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**Batch B207213 - SW-846 3546**

**Blank (B207213-BLK1)**

Prepared: 07/03/18 Analyzed: 07/09/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.0831		mg/Kg wet	0.200		41.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0946		mg/Kg wet	0.200		47.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.0933		mg/Kg wet	0.200		46.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0901		mg/Kg wet	0.200		45.0	30-150			

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
<b>Batch B207213 - SW-846 3546</b>										
<b>LCS (B207213-BS1)</b>										
					Prepared: 07/03/18 Analyzed: 07/10/18					
alpha-Chlordane	0.071	0.0050	mg/Kg wet	0.100		71.4	40-140			
alpha-Chlordane [2C]	0.076	0.0050	mg/Kg wet	0.100		75.7	40-140			
gamma-Chlordane	0.071	0.0050	mg/Kg wet	0.100		70.9	40-140			
gamma-Chlordane [2C]	0.076	0.0050	mg/Kg wet	0.100		75.7	40-140			
Alachlor	0.084	0.020	mg/Kg wet	0.100		83.6	40-140			
Alachlor [2C]	0.086	0.020	mg/Kg wet	0.100		85.8	40-140			
Aldrin	0.074	0.0050	mg/Kg wet	0.100		73.7	40-140			
Aldrin [2C]	0.074	0.0050	mg/Kg wet	0.100		74.3	40-140			
alpha-BHC	0.068	0.0050	mg/Kg wet	0.100		68.3	40-140			
alpha-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.6	40-140			
beta-BHC	0.070	0.0050	mg/Kg wet	0.100		70.3	40-140			
beta-BHC [2C]	0.064	0.0050	mg/Kg wet	0.100		63.6	40-140			
delta-BHC	0.064	0.0050	mg/Kg wet	0.100		64.3	40-140			
delta-BHC [2C]	0.064	0.0050	mg/Kg wet	0.100		63.9	40-140			
gamma-BHC (Lindane)	0.073	0.0020	mg/Kg wet	0.100		72.6	40-140			
gamma-BHC (Lindane) [2C]	0.072	0.0020	mg/Kg wet	0.100		72.4	40-140			
4,4'-DDD	0.078	0.0040	mg/Kg wet	0.100		77.8	40-140			
4,4'-DDD [2C]	0.080	0.0040	mg/Kg wet	0.100		79.8	40-140			
4,4'-DDE	0.078	0.0040	mg/Kg wet	0.100		78.0	40-140			
4,4'-DDE [2C]	0.078	0.0040	mg/Kg wet	0.100		78.2	40-140			
4,4'-DDT	0.076	0.0040	mg/Kg wet	0.100		75.6	40-140			
4,4'-DDT [2C]	0.076	0.0040	mg/Kg wet	0.100		76.4	40-140			
Dieldrin	0.075	0.0040	mg/Kg wet	0.100		75.4	40-140			
Dieldrin [2C]	0.074	0.0040	mg/Kg wet	0.100		74.3	40-140			
Endosulfan I	0.069	0.0050	mg/Kg wet	0.100		68.8	40-140			
Endosulfan I [2C]	0.069	0.0050	mg/Kg wet	0.100		68.9	40-140			
Endosulfan II	0.072	0.0080	mg/Kg wet	0.100		71.9	40-140			
Endosulfan II [2C]	0.076	0.0080	mg/Kg wet	0.100		75.9	40-140			
Endosulfan Sulfate	0.072	0.0080	mg/Kg wet	0.100		72.4	40-140			
Endosulfan Sulfate [2C]	0.076	0.0080	mg/Kg wet	0.100		75.5	40-140			
Endrin	0.072	0.0080	mg/Kg wet	0.100		71.8	40-140			
Endrin [2C]	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140			
Endrin Aldehyde	0.067	0.0080	mg/Kg wet	0.100		66.8	40-140			
Endrin Aldehyde [2C]	0.073	0.0080	mg/Kg wet	0.100		73.4	40-140			
Endrin Ketone	0.073	0.0080	mg/Kg wet	0.100		73.2	40-140			
Endrin Ketone [2C]	0.076	0.0080	mg/Kg wet	0.100		75.9	40-140			
Heptachlor	0.068	0.0050	mg/Kg wet	0.100		68.4	40-140			
Heptachlor [2C]	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140			
Heptachlor Epoxide	0.071	0.0050	mg/Kg wet	0.100		70.8	40-140			
Heptachlor Epoxide [2C]	0.074	0.0050	mg/Kg wet	0.100		73.6	40-140			
Hexachlorobenzene	0.077	0.0060	mg/Kg wet	0.100		77.1	40-140			
Hexachlorobenzene [2C]	0.078	0.0060	mg/Kg wet	0.100		77.7	40-140			
Methoxychlor	0.071	0.050	mg/Kg wet	0.100		71.3	40-140			
Methoxychlor [2C]	0.080	0.050	mg/Kg wet	0.100		79.8	40-140			
Surrogate: Decachlorobiphenyl	0.123		mg/Kg wet	0.200		61.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.140		mg/Kg wet	0.200		70.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.133		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.127		mg/Kg wet	0.200		63.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207213 - SW-846 3546</b>										
<b>LCS Dup (B207213-BSD1)</b>										
					Prepared: 07/03/18 Analyzed: 07/09/18					
alpha-Chlordane	0.067	0.0050	mg/Kg wet	0.100		67.3	40-140	5.90	30	
alpha-Chlordane [2C]	0.070	0.0050	mg/Kg wet	0.100		70.3	40-140	7.35	30	
gamma-Chlordane	0.067	0.0050	mg/Kg wet	0.100		66.5	40-140	6.32	30	
gamma-Chlordane [2C]	0.071	0.0050	mg/Kg wet	0.100		71.4	40-140	5.78	30	
Alachlor	0.077	0.020	mg/Kg wet	0.100		77.0	40-140	8.27	30	
Alachlor [2C]	0.079	0.020	mg/Kg wet	0.100		78.6	40-140	8.83	30	
Aldrin	0.070	0.0050	mg/Kg wet	0.100		69.7	40-140	5.69	30	
Aldrin [2C]	0.069	0.0050	mg/Kg wet	0.100		69.2	40-140	7.07	30	
alpha-BHC	0.064	0.0050	mg/Kg wet	0.100		64.1	40-140	6.38	30	
alpha-BHC [2C]	0.063	0.0050	mg/Kg wet	0.100		62.8	40-140	7.41	30	
beta-BHC	0.066	0.0050	mg/Kg wet	0.100		66.3	40-140	5.90	30	
beta-BHC [2C]	0.059	0.0050	mg/Kg wet	0.100		59.4	40-140	6.72	30	
delta-BHC	0.061	0.0050	mg/Kg wet	0.100		60.9	40-140	5.39	30	
delta-BHC [2C]	0.060	0.0050	mg/Kg wet	0.100		60.2	40-140	6.07	30	
gamma-BHC (Lindane)	0.069	0.0020	mg/Kg wet	0.100		68.5	40-140	5.81	30	
gamma-BHC (Lindane) [2C]	0.068	0.0020	mg/Kg wet	0.100		67.6	40-140	6.85	30	
4,4'-DDD	0.073	0.0040	mg/Kg wet	0.100		73.1	40-140	6.23	30	
4,4'-DDD [2C]	0.074	0.0040	mg/Kg wet	0.100		73.5	40-140	8.19	30	
4,4'-DDE	0.073	0.0040	mg/Kg wet	0.100		73.4	40-140	6.19	30	
4,4'-DDE [2C]	0.072	0.0040	mg/Kg wet	0.100		72.4	40-140	7.72	30	
4,4'-DDT	0.071	0.0040	mg/Kg wet	0.100		70.5	40-140	6.93	30	
4,4'-DDT [2C]	0.071	0.0040	mg/Kg wet	0.100		70.5	40-140	7.95	30	
Dieldrin	0.071	0.0040	mg/Kg wet	0.100		70.7	40-140	6.38	30	
Dieldrin [2C]	0.069	0.0040	mg/Kg wet	0.100		68.8	40-140	7.77	30	
Endosulfan I	0.065	0.0050	mg/Kg wet	0.100		65.0	40-140	5.71	30	
Endosulfan I [2C]	0.064	0.0050	mg/Kg wet	0.100		64.0	40-140	7.35	30	
Endosulfan II	0.068	0.0080	mg/Kg wet	0.100		67.8	40-140	5.84	30	
Endosulfan II [2C]	0.071	0.0080	mg/Kg wet	0.100		70.5	40-140	7.25	30	
Endosulfan Sulfate	0.068	0.0080	mg/Kg wet	0.100		68.0	40-140	6.35	30	
Endosulfan Sulfate [2C]	0.071	0.0080	mg/Kg wet	0.100		70.8	40-140	6.45	30	
Endrin	0.068	0.0080	mg/Kg wet	0.100		67.7	40-140	5.86	30	
Endrin [2C]	0.071	0.0080	mg/Kg wet	0.100		71.5	40-140	7.46	30	
Endrin Aldehyde	0.065	0.0080	mg/Kg wet	0.100		65.4	40-140	2.18	30	
Endrin Aldehyde [2C]	0.070	0.0080	mg/Kg wet	0.100		70.0	40-140	4.69	30	
Endrin Ketone	0.069	0.0080	mg/Kg wet	0.100		68.9	40-140	6.01	30	
Endrin Ketone [2C]	0.071	0.0080	mg/Kg wet	0.100		71.2	40-140	6.39	30	
Heptachlor	0.065	0.0050	mg/Kg wet	0.100		65.0	40-140	5.13	30	
Heptachlor [2C]	0.070	0.0050	mg/Kg wet	0.100		70.5	40-140	6.43	30	
Heptachlor Epoxide	0.067	0.0050	mg/Kg wet	0.100		66.8	40-140	5.84	30	
Heptachlor Epoxide [2C]	0.068	0.0050	mg/Kg wet	0.100		68.5	40-140	7.24	30	
Hexachlorobenzene	0.072	0.0060	mg/Kg wet	0.100		72.5	40-140	6.25	30	
Hexachlorobenzene [2C]	0.072	0.0060	mg/Kg wet	0.100		72.3	40-140	7.27	30	
Methoxychlor	0.067	0.050	mg/Kg wet	0.100		66.6	40-140	6.70	30	
Methoxychlor [2C]	0.075	0.050	mg/Kg wet	0.100		75.0	40-140	6.23	30	
Surrogate: Decachlorobiphenyl	0.117		mg/Kg wet	0.200		58.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.130		mg/Kg wet	0.200		65.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.125		mg/Kg wet	0.200		62.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.119		mg/Kg wet	0.200		59.5	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
<b>Batch B207213 - SW-846 3546</b>										
<b>Matrix Spike (B207213-MS1)</b>	<b>Source: 18G0089-06</b>			Prepared: 07/03/18 Analyzed: 07/10/18						
Alachlor	0.098	0.022	mg/Kg dry	0.110	ND	89.4	30-150			
Alachlor [2C]	0.088	0.022	mg/Kg dry	0.110	ND	80.5	30-150			
Aldrin	0.076	0.0055	mg/Kg dry	0.110	ND	69.3	30-150			
Aldrin [2C]	0.076	0.0055	mg/Kg dry	0.110	ND	69.3	30-150			
alpha-BHC	0.071	0.0055	mg/Kg dry	0.110	ND	64.5	30-150			
alpha-BHC [2C]	0.072	0.0055	mg/Kg dry	0.110	ND	65.1	30-150			
beta-BHC	0.071	0.0055	mg/Kg dry	0.110	ND	64.2	30-150			
beta-BHC [2C]	0.061	0.0055	mg/Kg dry	0.110	ND	55.6	30-150			
delta-BHC	0.073	0.0055	mg/Kg dry	0.110	ND	66.7	30-150			
delta-BHC [2C]	0.075	0.0055	mg/Kg dry	0.110	ND	68.5	30-150			
gamma-BHC (Lindane)	0.074	0.0022	mg/Kg dry	0.110	ND	67.8	30-150			
gamma-BHC (Lindane) [2C]	0.075	0.0022	mg/Kg dry	0.110	ND	68.6	30-150			
4,4'-DDD	0.081	0.0044	mg/Kg dry	0.110	ND	74.1	30-150			
4,4'-DDD [2C]	0.085	0.0044	mg/Kg dry	0.110	ND	77.8	30-150			
4,4'-DDE	0.080	0.0044	mg/Kg dry	0.110	ND	72.5	30-150			
4,4'-DDE [2C]	0.079	0.0044	mg/Kg dry	0.110	ND	71.8	30-150			
4,4'-DDT	0.077	0.0044	mg/Kg dry	0.110	ND	70.4	30-150			
4,4'-DDT [2C]	0.080	0.0044	mg/Kg dry	0.110	ND	73.1	30-150			
Dieldrin	0.077	0.0044	mg/Kg dry	0.110	ND	69.8	30-150			
Dieldrin [2C]	0.077	0.0044	mg/Kg dry	0.110	ND	69.8	30-150			
Endosulfan I	0.072	0.0055	mg/Kg dry	0.110	ND	65.6	30-150			
Endosulfan I [2C]	0.068	0.0055	mg/Kg dry	0.110	ND	62.1	30-150			
Endosulfan II	0.072	0.0088	mg/Kg dry	0.110	ND	65.5	30-150			
Endosulfan II [2C]	0.076	0.0088	mg/Kg dry	0.110	ND	69.6	30-150			
Endosulfan Sulfate	0.065	0.0088	mg/Kg dry	0.110	ND	59.1	30-150			
Endosulfan Sulfate [2C]	0.072	0.0088	mg/Kg dry	0.110	ND	65.6	30-150			
Endrin	0.075	0.0088	mg/Kg dry	0.110	ND	68.2	30-150			
Endrin [2C]	0.079	0.0088	mg/Kg dry	0.110	ND	72.0	30-150			
Endrin Aldehyde	0.062	0.0088	mg/Kg dry	0.110	ND	56.2	30-150			
Endrin Aldehyde [2C]	0.071	0.0088	mg/Kg dry	0.110	ND	64.8	30-150			
Endrin Ketone	0.072	0.0088	mg/Kg dry	0.110	ND	65.4	30-150			
Endrin Ketone [2C]	0.074	0.0088	mg/Kg dry	0.110	ND	67.5	30-150			
Heptachlor	0.071	0.0055	mg/Kg dry	0.110	ND	64.9	30-150			
Heptachlor [2C]	0.079	0.0055	mg/Kg dry	0.110	ND	71.5	30-150			
Heptachlor Epoxide	0.074	0.0055	mg/Kg dry	0.110	ND	67.3	30-150			
Heptachlor Epoxide [2C]	0.077	0.0055	mg/Kg dry	0.110	ND	69.8	30-150			
Hexachlorobenzene	0.083	0.0066	mg/Kg dry	0.110	ND	75.3	30-150			
Hexachlorobenzene [2C]	0.082	0.0066	mg/Kg dry	0.110	ND	74.2	30-150			
Methoxychlor	0.071	0.055	mg/Kg dry	0.110	ND	64.7	30-150			
Methoxychlor [2C]	0.079	0.055	mg/Kg dry	0.110	ND	72.2	30-150			
Surrogate: Decachlorobiphenyl	0.122		mg/Kg dry	0.220		55.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.138		mg/Kg dry	0.220		62.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.139		mg/Kg dry	0.220		63.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.132		mg/Kg dry	0.220		60.1	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
<b>Batch B207213 - SW-846 3546</b>										
<b>Matrix Spike Dup (B207213-MSD1)</b>										
		<b>Source: 18G0089-06</b>			Prepared: 07/03/18 Analyzed: 07/10/18					
Alachlor	0.093	0.022	mg/Kg dry	0.110	ND	85.1	30-150	4.94	30	
Alachlor [2C]	0.083	0.022	mg/Kg dry	0.110	ND	76.0	30-150	5.74	30	
Aldrin	0.073	0.0055	mg/Kg dry	0.110	ND	66.5	30-150	4.24	30	
Aldrin [2C]	0.073	0.0055	mg/Kg dry	0.110	ND	66.3	30-150	4.39	30	
alpha-BHC	0.068	0.0055	mg/Kg dry	0.110	ND	62.0	30-150	3.92	30	
alpha-BHC [2C]	0.067	0.0055	mg/Kg dry	0.110	ND	61.3	30-150	6.09	30	
beta-BHC	0.070	0.0055	mg/Kg dry	0.110	ND	64.1	30-150	0.132	30	
beta-BHC [2C]	0.061	0.0055	mg/Kg dry	0.110	ND	55.6	30-150	0.0162	30	
delta-BHC	0.072	0.0055	mg/Kg dry	0.110	ND	65.3	30-150	2.19	30	
delta-BHC [2C]	0.072	0.0055	mg/Kg dry	0.110	ND	65.3	30-150	4.77	30	
gamma-BHC (Lindane)	0.072	0.0022	mg/Kg dry	0.110	ND	65.3	30-150	3.86	30	
gamma-BHC (Lindane) [2C]	0.072	0.0022	mg/Kg dry	0.110	ND	65.1	30-150	5.11	30	
4,4'-DDD	0.079	0.0044	mg/Kg dry	0.110	ND	72.0	30-150	2.87	30	
4,4'-DDD [2C]	0.078	0.0044	mg/Kg dry	0.110	ND	70.8	30-150	9.49	30	
4,4'-DDE	0.079	0.0044	mg/Kg dry	0.110	ND	71.5	30-150	1.41	30	
4,4'-DDE [2C]	0.077	0.0044	mg/Kg dry	0.110	ND	69.7	30-150	2.89	30	
4,4'-DDT	0.075	0.0044	mg/Kg dry	0.110	ND	68.5	30-150	2.71	30	
4,4'-DDT [2C]	0.078	0.0044	mg/Kg dry	0.110	ND	71.0	30-150	2.93	30	
Dieldrin	0.074	0.0044	mg/Kg dry	0.110	ND	67.5	30-150	3.30	30	
Dieldrin [2C]	0.073	0.0044	mg/Kg dry	0.110	ND	66.5	30-150	4.92	30	
Endosulfan I	0.069	0.0055	mg/Kg dry	0.110	ND	62.6	30-150	4.74	30	
Endosulfan I [2C]	0.068	0.0055	mg/Kg dry	0.110	ND	61.7	30-150	0.620	30	
Endosulfan II	0.070	0.0088	mg/Kg dry	0.110	ND	63.7	30-150	2.80	30	
Endosulfan II [2C]	0.074	0.0088	mg/Kg dry	0.110	ND	67.7	30-150	2.90	30	
Endosulfan Sulfate	0.066	0.0088	mg/Kg dry	0.110	ND	60.4	30-150	2.23	30	
Endosulfan Sulfate [2C]	0.072	0.0088	mg/Kg dry	0.110	ND	65.5	30-150	0.206	30	
Endrin	0.073	0.0088	mg/Kg dry	0.110	ND	66.2	30-150	2.90	30	
Endrin [2C]	0.076	0.0088	mg/Kg dry	0.110	ND	69.6	30-150	3.47	30	
Endrin Aldehyde	0.064	0.0088	mg/Kg dry	0.110	ND	58.1	30-150	3.20	30	
Endrin Aldehyde [2C]	0.071	0.0088	mg/Kg dry	0.110	ND	64.9	30-150	0.159	30	
Endrin Ketone	0.071	0.0088	mg/Kg dry	0.110	ND	64.7	30-150	1.09	30	
Endrin Ketone [2C]	0.074	0.0088	mg/Kg dry	0.110	ND	67.1	30-150	0.565	30	
Heptachlor	0.069	0.0055	mg/Kg dry	0.110	ND	62.4	30-150	3.89	30	
Heptachlor [2C]	0.075	0.0055	mg/Kg dry	0.110	ND	68.2	30-150	4.78	30	
Heptachlor Epoxide	0.071	0.0055	mg/Kg dry	0.110	ND	64.7	30-150	3.90	30	
Heptachlor Epoxide [2C]	0.074	0.0055	mg/Kg dry	0.110	ND	67.2	30-150	3.74	30	
Hexachlorobenzene	0.078	0.0066	mg/Kg dry	0.110	ND	70.8	30-150	6.17	30	
Hexachlorobenzene [2C]	0.079	0.0066	mg/Kg dry	0.110	ND	71.5	30-150	3.73	30	
Methoxychlor	0.069	0.055	mg/Kg dry	0.110	ND	63.2	30-150	2.43	30	
Methoxychlor [2C]	0.080	0.055	mg/Kg dry	0.110	ND	73.0	30-150	1.03	30	
Surrogate: Decachlorobiphenyl	0.117		mg/Kg dry	0.220		53.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.136		mg/Kg dry	0.220		62.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.134		mg/Kg dry	0.220		61.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.126		mg/Kg dry	0.220		57.6	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
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**Batch B207237 - % Solids**

**Duplicate (B207237-DUP2)**

**Source: 18G0089-06**

Prepared: 07/05/18 Analyzed: 07/06/18

% Solids	90.8		% Wt			91.1		0.340	20	
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## BREAKDOWN REPORT

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**Lab Sample ID:** S025087-PEM1 **Analyzed:** 07/09/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 4.38  
Endrin [1] 3.89

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 6.80  
Endrin [2] 4.56

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## BREAKDOWN REPORT

---

**Lab Sample ID:** S025087-PEM2 **Analyzed:** 07/09/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 3.90  
Endrin [1] 3.43

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 5.87  
Endrin [2] 4.11

---

## BREAKDOWN REPORT

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**Lab Sample ID:** S025087-PEM3 **Analyzed:** 07/10/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 2.99  
Endrin [1] 2.39

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## BREAKDOWN REPORT

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**Lab Sample ID:** S025087-PEM3 **Analyzed:** 07/10/2018

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 5.56  
Endrin [2] 3.12

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## BREAKDOWN REPORT

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**Lab Sample ID:** S025087-PEM4 **Analyzed:** 07/10/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 2.87  
Endrin [1] 2.26

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 5.48  
Endrin [2] 2.97

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## BREAKDOWN REPORT

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**Lab Sample ID:** S025116-PEM1 **Analyzed:** 07/11/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 0.72  
Endrin [1] 3.33

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 1.24  
Endrin [2] 3.70

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

I26-SB607 (0-1')

*SW-846 8081B*

Lab Sample ID: 18G0089-01 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.7	12.5
Heptachlor Epoxide	1	6.975	6.938	6.998	0.073	
	2	6.902	6.871	6.931	0.063	14.7

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**H26-SB613 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18G0089-02 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.207	7.178	7.238	0.029	
	2	7.274	7.244	7.304	0.028	3.5
4,4'-DDT	1	7.886	7.856	7.916	0.027	
	2	7.967	7.937	7.997	0.035	25.8
Chlordane	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.8	18.2
Heptachlor Epoxide	1	6.969	6.938	6.998	0.14	
	2	6.902	6.871	6.931	0.14	6.9

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**I27-SB608 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18G0089-03 Date(s) Analyzed: 07/09/2018 07/09/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.890	7.860	7.920	0.0076	
	2	7.969	7.940	8.000	0.011	36.6
Chlordane	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.29	18.9
Heptachlor Epoxide	1	6.972	6.942	7.002	0.021	
	2	6.903	6.874	6.934	0.020	4.9

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**G27-SB612 (0-1')**

Lab Sample ID: 18G0089-05 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.206	7.178	7.238	0.030	
	2	7.274	7.244	7.304	0.026	14.3
4,4'-DDT	1	7.885	7.856	7.916	0.016	
	2	7.966	7.937	7.997	0.022	31.6
Chlordane	1	0.000	-0.030	0.030	0.75	
	2	0.000	-0.030	0.030	0.96	24.6
Heptachlor Epoxide	1	6.968	6.938	6.998	0.086	
	2	6.901	6.871	6.931	0.084	2.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**H28-SB605 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18G0089-06 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	0.053	
	2	0.000	-0.030	0.030	0.096	57.7

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**H29-SB609 (0-1)**

*SW-846 8081B*

Lab Sample ID: 18G0089-07 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.885	7.856	7.916	0.0093	
	2	7.966	7.937	7.997	0.0099	6.3
Chlordane	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.68	42.9
Heptachlor Epoxide	1	6.968	6.938	6.998	0.020	
	2	6.900	6.871	6.931	0.015	28.6

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**G28-SB611 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18G0089-08 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.206	7.178	7.238	0.055	
	2	7.273	7.244	7.304	0.043	24.5
4,4'-DDT	1	7.885	7.856	7.916	0.030	
	2	7.967	7.937	7.997	0.037	20.9
Chlordane	1	0.000	-0.030	0.030	2.2	
	2	0.000	-0.030	0.030	2.5	12.8
Heptachlor Epoxide	1	6.968	6.938	6.998	0.21	
	2	6.901	6.871	6.931	0.18	15.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**G29-SB610 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18G0089-09 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	6.6	
	2	0.000	-0.030	0.030	7.4	11.4
Heptachlor Epoxide	1	6.967	6.938	6.998	0.64	
	2	6.900	6.871	6.931	0.56	13.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**G29-SB606 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18G0089-10 Date(s) Analyzed: 07/11/2018 07/11/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.228	7.199	7.259	0.028	
	2	7.177	7.147	7.207	0.028	0.0
4,4'-DDT	1	7.909	7.883	7.943	0.027	
	2	7.870	7.840	7.900	0.027	0.0
Chlordane	1	0.000	-0.030	0.030	0.046	
	2	0.000	-0.030	0.030	0.10	74.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**LCS**

*SW-846 8081B*

Lab Sample ID:                     B207213-BS1                                          Date(s) Analyzed:           07/10/2018                     07/10/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.668	7.636	7.696	0.078	
	2	7.723	7.694	7.754	0.080	2.5
4,4'-DDE	1	7.209	7.178	7.238	0.078	
	2	7.274	7.244	7.304	0.078	0.0
4,4'-DDT	1	7.887	7.856	7.916	0.076	
	2	7.968	7.937	7.997	0.076	0.0
Alachlor	1	6.612	6.582	6.642	0.084	
	2	6.405	6.375	6.435	0.086	2.4
Aldrin	1	6.527	6.497	6.557	0.074	
	2	6.486	6.456	6.516	0.074	0.0
alpha-BHC	1	5.758	5.727	5.787	0.068	
	2	5.714	5.684	5.744	0.068	0.0
alpha-Chlordane	1	7.161	7.130	7.190	0.071	
	2	7.151	7.120	7.180	0.076	6.8
beta-BHC	1	6.028	5.997	6.057	0.070	
	2	6.004	5.974	6.034	0.064	9.0
delta-BHC	1	6.155	6.125	6.185	0.064	
	2	6.208	6.178	6.238	0.064	0.0
Dieldrin	1	7.450	7.419	7.479	0.075	
	2	7.404	7.374	7.434	0.074	1.3
Endosulfan I	1	7.268	7.238	7.298	0.069	
	2	7.196	7.166	7.226	0.069	0.0
Endosulfan II	1	7.803	7.773	7.833	0.072	
	2	7.806	7.775	7.835	0.076	5.4
Endosulfan Sulfate	1	8.406	8.375	8.435	0.072	
	2	8.256	8.226	8.286	0.076	5.4
Endrin	1	7.631	7.600	7.660	0.072	
	2	7.640	7.611	7.671	0.077	6.7
Endrin Aldehyde	1	8.113	8.083	8.143	0.067	
	2	8.062	8.032	8.092	0.073	8.6
Endrin Ketone	1	8.583	8.552	8.612	0.073	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*

Lab Sample ID:                     B207213-BS1                                          Date(s) Analyzed:           07/10/2018                     07/10/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.595	8.565	8.625	0.076	4.0
gamma-BHC (Lindane)	1	5.973	5.943	6.003	0.073	
	2	5.951	5.921	5.981	0.072	1.4
gamma-Chlordane	1	7.061	7.031	7.091	0.071	
	2	7.040	7.010	7.070	0.076	6.8
Heptachlor	1	6.309	6.278	6.338	0.068	
	2	6.256	6.226	6.286	0.075	9.8
Heptachlor Epoxide	1	6.969	6.938	6.998	0.071	
	2	6.901	6.871	6.931	0.074	4.1
Hexachlorobenzene	1	5.645	5.615	5.675	0.077	
	2	5.621	5.590	5.650	0.078	1.3
Methoxychlor	1	8.227	8.196	8.256	0.071	
	2	8.439	8.408	8.468	0.080	11.9

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**LCS Dup**

*SW-846 8081B*

Lab Sample ID:                     B207213-BSD1                          Date(s) Analyzed:           07/09/2018                     07/09/2018          

Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                    

GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.671	7.641	7.701	0.073	
	2	7.726	7.697	7.757	0.074	1.4
4,4'-DDE	1	7.212	7.182	7.242	0.073	
	2	7.276	7.247	7.307	0.072	1.4
4,4'-DDT	1	7.890	7.860	7.920	0.071	
	2	7.970	7.940	8.000	0.071	0.0
Alachlor	1	6.615	6.586	6.646	0.077	
	2	6.407	6.377	6.437	0.079	2.6
Aldrin	1	6.530	6.500	6.560	0.070	
	2	6.488	6.458	6.518	0.069	1.4
alpha-BHC	1	5.760	5.731	5.791	0.064	
	2	5.716	5.686	5.746	0.063	1.6
alpha-Chlordane	1	7.164	7.135	7.195	0.067	
	2	7.153	7.123	7.183	0.070	4.4
beta-BHC	1	6.030	6.001	6.061	0.066	
	2	6.006	5.977	6.037	0.059	11.2
delta-BHC	1	6.158	6.128	6.188	0.061	
	2	6.210	6.181	6.241	0.060	1.7
Dieldrin	1	7.454	7.423	7.483	0.071	
	2	7.406	7.378	7.438	0.069	2.9
Endosulfan I	1	7.272	7.242	7.302	0.065	
	2	7.198	7.169	7.229	0.064	1.6
Endosulfan II	1	7.807	7.777	7.837	0.068	
	2	7.808	7.779	7.839	0.071	4.3
Endosulfan Sulfate	1	8.410	8.380	8.440	0.068	
	2	8.258	8.228	8.288	0.071	4.3
Endrin	1	7.635	7.605	7.665	0.068	
	2	7.643	7.614	7.674	0.071	4.3
Endrin Aldehyde	1	8.117	8.087	8.147	0.065	
	2	8.065	8.035	8.095	0.070	7.4
Endrin Ketone	1	8.586	8.556	8.616	0.069	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8081B*

Lab Sample ID:                     B207213-BSD1                                          Date(s) Analyzed:           07/09/2018                        07/09/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.597	8.567	8.627	0.071	2.9
gamma-BHC (Lindane)	1	5.976	5.946	6.006	0.069	
	2	5.953	5.924	5.984	0.068	1.5
gamma-Chlordane	1	7.064	7.035	7.095	0.067	
	2	7.042	7.013	7.073	0.071	5.8
Heptachlor	1	6.312	6.282	6.342	0.065	
	2	6.258	6.228	6.288	0.070	7.4
Heptachlor Epoxide	1	6.972	6.942	7.002	0.067	
	2	6.904	6.874	6.934	0.068	1.5
Hexachlorobenzene	1	5.648	5.618	5.678	0.072	
	2	5.622	5.593	5.653	0.072	1.4
Methoxychlor	1	8.230	8.200	8.260	0.067	
	2	8.440	8.411	8.471	0.075	11.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B207213-MS1                                          Date(s) Analyzed:           07/10/2018                        07/10/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.665	7.636	7.696	0.081	
	2	7.723	7.694	7.754	0.085	4.8
4,4'-DDE	1	7.207	7.178	7.238	0.080	
	2	7.274	7.244	7.304	0.079	1.3
4,4'-DDT	1	7.884	7.856	7.916	0.077	
	2	7.967	7.937	7.997	0.080	3.8
Alachlor	1	6.611	6.582	6.642	0.098	
	2	6.405	6.375	6.435	0.088	10.8
Aldrin	1	6.525	6.497	6.557	0.076	
	2	6.486	6.456	6.516	0.076	0.0
alpha-BHC	1	5.757	5.727	5.787	0.071	
	2	5.713	5.684	5.744	0.072	1.4
beta-BHC	1	6.026	5.997	6.057	0.071	
	2	6.004	5.974	6.034	0.061	15.2
delta-BHC	1	6.153	6.125	6.185	0.073	
	2	6.208	6.178	6.238	0.075	2.7
Dieldrin	1	7.448	7.419	7.479	0.077	
	2	7.404	7.374	7.434	0.077	0.0
Endosulfan I	1	7.266	7.238	7.298	0.072	
	2	7.195	7.166	7.226	0.068	5.7
Endosulfan II	1	7.801	7.773	7.833	0.072	
	2	7.805	7.775	7.835	0.076	5.4
Endosulfan Sulfate	1	8.405	8.375	8.435	0.065	
	2	8.255	8.226	8.286	0.072	10.2
Endrin	1	7.629	7.600	7.660	0.075	
	2	7.640	7.611	7.671	0.079	5.2
Endrin Aldehyde	1	8.112	8.083	8.143	0.062	
	2	8.062	8.032	8.092	0.071	13.5
Endrin Ketone	1	8.582	8.552	8.612	0.072	
	2	8.595	8.565	8.625	0.074	2.7
gamma-BHC (Lindane)	1	5.972	5.943	6.003	0.074	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B207213-MS1                                          Date(s) Analyzed:           07/10/2018                     07/10/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.951	5.921	5.981	0.075	0.0
Heptachlor	1	6.307	6.278	6.338	0.071	
	2	6.255	6.226	6.286	0.079	10.7
Heptachlor Epoxide	1	6.967	6.938	6.998	0.074	
	2	6.901	6.871	6.931	0.077	4.0
Hexachlorobenzene	1	5.644	5.615	5.675	0.083	
	2	5.620	5.590	5.650	0.082	1.2
Methoxychlor	1	8.225	8.196	8.256	0.071	
	2	8.438	8.408	8.468	0.079	10.7

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike Dup**

*SW-846 8081B*

Lab Sample ID:                   B207213-MSD1                                        Date(s) Analyzed:           07/10/2018                        07/10/2018          

Instrument ID (1):                   ECD6                                                        Instrument ID (2):                   ECD6                  

GC Column (1):                                      ID:                      (mm)                      GC Column (2):                                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.667	7.636	7.696	0.079	
	2	7.723	7.694	7.754	0.078	1.3
4,4'-DDE	1	7.208	7.178	7.238	0.079	
	2	7.274	7.244	7.304	0.077	2.6
4,4'-DDT	1	7.886	7.856	7.916	0.075	
	2	7.967	7.937	7.997	0.078	3.9
Alachlor	1	6.611	6.582	6.642	0.093	
	2	6.405	6.375	6.435	0.083	11.4
Aldrin	1	6.526	6.497	6.557	0.073	
	2	6.486	6.456	6.516	0.073	0.0
alpha-BHC	1	5.756	5.727	5.787	0.068	
	2	5.714	5.684	5.744	0.067	1.5
beta-BHC	1	6.027	5.997	6.057	0.070	
	2	6.004	5.974	6.034	0.061	13.7
delta-BHC	1	6.154	6.125	6.185	0.072	
	2	6.208	6.178	6.238	0.072	0.0
Dieldrin	1	7.449	7.419	7.479	0.074	
	2	7.404	7.374	7.434	0.073	1.4
Endosulfan I	1	7.267	7.238	7.298	0.069	
	2	7.196	7.166	7.226	0.068	1.5
Endosulfan II	1	7.802	7.773	7.833	0.070	
	2	7.806	7.775	7.835	0.074	5.6
Endosulfan Sulfate	1	8.406	8.375	8.435	0.066	
	2	8.255	8.226	8.286	0.072	8.7
Endrin	1	7.631	7.600	7.660	0.073	
	2	7.640	7.611	7.671	0.076	4.0
Endrin Aldehyde	1	8.113	8.083	8.143	0.064	
	2	8.062	8.032	8.092	0.071	10.4
Endrin Ketone	1	8.583	8.552	8.612	0.071	
	2	8.595	8.565	8.625	0.074	4.1
gamma-BHC (Lindane)	1	5.972	5.943	6.003	0.072	



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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA

*SW-846 8081B in Water*

Alachlor	NC
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**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018







**con-test**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client A ECOM

Received By ESD Date 7-3-0 Time 1625

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 3.8  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? F  
Did COC include all pertinent Information? Client T Analysis T Sampler Name F  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T  
Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
Are there Rushes? F Who was notified? \_\_\_\_\_  
Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T  
Is there Headspace where applicable? F MS/MSD? F  
Proper Media/Containers Used? T Is splitting samples required? F  
Were trip blanks received? F On COC? F  
Do all samples have the proper pH? NA Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#		#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear <u>10</u>
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear <u>12</u>
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

**Unused Media**

Vials	#	Containers:	#		#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich High School

**Project Number:** 18G0089

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G0089-01 thru 18G0089-10

07/03/2018

*List RCP Methods Used:*

SW-846 8081B

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 07/11/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 16, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18G0240

Enclosed are results of analyses for samples received by the laboratory on July 9, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067  
ATTN: Matthew Rood

REPORT DATE: 7/16/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 18G0240

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
School Front 20180628 (0-2)	18G0240-01	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8081B**

**Qualifications:**

**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

**Analyte & Samples(s) Qualified:**

**4,4'-DDD**

B207561-BS1, B207561-BSD1

**4,4'-DDE**

B207561-BS1, B207561-BSD1

**Aldrin**

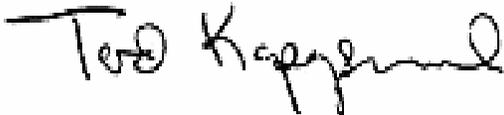
B207561-BS1, B207561-BSD1

**gamma-BHC (Lindane)**

B207561-MS1

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. Kopycinski  
Laboratory Director

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18G0240

Date Received: 7/9/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18G0240-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1		SM 2540G	6/30/18	7/13/18 9:31	FWD

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18G0240

Date Received: 7/9/2018

Field Sample #: School Front 20180628 (0-2)

Sampled: 6/28/2018 13:35

Sample ID: 18G0240-01

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/10/18	7/13/18 14:55	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		44.3	30-150					7/13/18 14:55	
Decachlorobiphenyl [2]		44.1	30-150					7/13/18 14:55	
Tetrachloro-m-xylene [1]		52.8	30-150					7/13/18 14:55	
Tetrachloro-m-xylene [2]		51.4	30-150					7/13/18 14:55	

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**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18G0240-01 [School Front 20180628 (0-2)]	B206993	06/30/18

**Prep Method: SW-846 3510C-SW-846 8081B**

**Leachates were extracted on 7/9/2018 per SW-846 1312 in Batch B207499**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18G0240-01 [School Front 20180628 (0-2)]	B207561	500	5.00	07/10/18

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207561 - SW-846 3510C

Blank (B207561-BLK1)

Prepared: 07/10/18 Analyzed: 07/13/18

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.67		µg/L	2.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.69		µg/L	2.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.43		µg/L	2.00		71.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.29		µg/L	2.00		64.6	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207561 - SW-846 3510C</b>										
<b>LCS (B207561-BS1)</b>										
				Prepared: 07/10/18 Analyzed: 07/13/18						
Alachlor	0.91	0.20	µg/L	1.00		90.6	40-140			
Alachlor [2C]	0.97	0.20	µg/L	1.00		96.9	40-140			
Aldrin	0.79	0.050	µg/L	1.00		79.4	40-140			V-06
Aldrin [2C]	0.72	0.050	µg/L	1.00		72.4	40-140			
alpha-BHC	0.69	0.050	µg/L	1.00		68.5	40-140			
alpha-BHC [2C]	0.68	0.050	µg/L	1.00		68.3	40-140			
beta-BHC	0.72	0.050	µg/L	1.00		72.3	40-140			
beta-BHC [2C]	0.73	0.050	µg/L	1.00		72.6	40-140			
delta-BHC	0.82	0.050	µg/L	1.00		81.5	40-140			
delta-BHC [2C]	0.78	0.050	µg/L	1.00		78.2	40-140			
gamma-BHC (Lindane)	0.74	0.030	µg/L	1.00		74.1	40-140			
gamma-BHC (Lindane) [2C]	0.75	0.030	µg/L	1.00		74.7	40-140			
4,4'-DDD	0.91	0.040	µg/L	1.00		91.1	40-140			V-06
4,4'-DDD [2C]	0.89	0.040	µg/L	1.00		89.0	40-140			
4,4'-DDE	0.88	0.040	µg/L	1.00		87.6	40-140			V-06
4,4'-DDE [2C]	0.81	0.040	µg/L	1.00		80.8	40-140			
4,4'-DDT	0.90	0.040	µg/L	1.00		90.0	40-140			
4,4'-DDT [2C]	0.87	0.040	µg/L	1.00		87.0	40-140			
Dieldrin	0.88	0.0020	µg/L	1.00		87.6	40-140			
Dieldrin [2C]	0.79	0.0020	µg/L	1.00		79.2	40-140			
Endosulfan I	0.80	0.050	µg/L	1.00		80.3	40-140			
Endosulfan I [2C]	0.77	0.050	µg/L	1.00		76.6	40-140			
Endosulfan II	0.85	0.080	µg/L	1.00		84.9	40-140			
Endosulfan II [2C]	0.83	0.080	µg/L	1.00		83.3	40-140			
Endosulfan Sulfate	0.90	0.080	µg/L	1.00		90.4	40-140			
Endosulfan Sulfate [2C]	0.86	0.080	µg/L	1.00		86.1	40-140			
Endrin	0.82	0.080	µg/L	1.00		82.4	40-140			
Endrin [2C]	0.82	0.080	µg/L	1.00		81.7	40-140			
Endrin Aldehyde	0.83	0.080	µg/L	1.00		83.0	40-140			
Endrin Aldehyde [2C]	0.80	0.080	µg/L	1.00		80.2	40-140			
Endrin Ketone	0.88	0.080	µg/L	1.00		88.2	40-140			
Endrin Ketone [2C]	0.89	0.080	µg/L	1.00		89.0	40-140			
Heptachlor	0.78	0.050	µg/L	1.00		77.7	40-140			
Heptachlor [2C]	0.81	0.050	µg/L	1.00		80.6	40-140			
Heptachlor Epoxide	0.82	0.050	µg/L	1.00		81.8	40-140			
Heptachlor Epoxide [2C]	0.80	0.050	µg/L	1.00		79.9	40-140			
Hexachlorobenzene	0.73	0.050	µg/L	1.00		72.8	40-140			
Hexachlorobenzene [2C]	0.71	0.050	µg/L	1.00		71.1	40-140			
Methoxychlor	0.87	0.50	µg/L	1.00		87.3	40-140			
Methoxychlor [2C]	0.94	0.50	µg/L	1.00		94.4	40-140			
Surrogate: Decachlorobiphenyl	1.58		µg/L	2.00		79.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.57		µg/L	2.00		78.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.35		µg/L	2.00		67.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		64.8	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207561 - SW-846 3510C</b>										
<b>LCS Dup (B207561-BSD1)</b>										
					Prepared: 07/10/18 Analyzed: 07/13/18					
Alachlor	0.98	0.20	µg/L	1.00		97.6	40-140	7.38		
Alachlor [2C]	1.0	0.20	µg/L	1.00		105	40-140	7.82		
Aldrin	0.79	0.050	µg/L	1.00		79.3	40-140	0.160		V-06
Aldrin [2C]	0.73	0.050	µg/L	1.00		72.5	40-140	0.166		
alpha-BHC	0.64	0.050	µg/L	1.00		64.3	40-140	6.27		
alpha-BHC [2C]	0.65	0.050	µg/L	1.00		65.1	40-140	4.81		
beta-BHC	0.71	0.050	µg/L	1.00		70.8	40-140	2.10		
beta-BHC [2C]	0.73	0.050	µg/L	1.00		73.2	40-140	0.813		
delta-BHC	0.80	0.050	µg/L	1.00		80.1	40-140	1.71		
delta-BHC [2C]	0.79	0.050	µg/L	1.00		78.9	40-140	0.819		
gamma-BHC (Lindane)	0.72	0.030	µg/L	1.00		71.9	40-140	3.14		
gamma-BHC (Lindane) [2C]	0.73	0.030	µg/L	1.00		72.7	40-140	2.72		
4,4'-DDD	0.98	0.040	µg/L	1.00		98.0	40-140	7.21		V-06
4,4'-DDD [2C]	0.94	0.040	µg/L	1.00		94.5	40-140	5.98		
4,4'-DDE	0.93	0.040	µg/L	1.00		92.9	40-140	5.92		V-06
4,4'-DDE [2C]	0.85	0.040	µg/L	1.00		84.7	40-140	4.65		
4,4'-DDT	0.96	0.040	µg/L	1.00		96.5	40-140	6.89		
4,4'-DDT [2C]	0.92	0.040	µg/L	1.00		92.2	40-140	5.80		
Dieldrin	0.93	0.0020	µg/L	1.00		92.6	40-140	5.56		
Dieldrin [2C]	0.83	0.0020	µg/L	1.00		83.1	40-140	4.90		
Endosulfan I	0.84	0.050	µg/L	1.00		84.3	40-140	4.80		
Endosulfan I [2C]	0.79	0.050	µg/L	1.00		79.2	40-140	3.42		
Endosulfan II	0.91	0.080	µg/L	1.00		90.9	40-140	6.79		
Endosulfan II [2C]	0.88	0.080	µg/L	1.00		88.4	40-140	5.92		
Endosulfan Sulfate	0.95	0.080	µg/L	1.00		94.9	40-140	4.87		
Endosulfan Sulfate [2C]	0.91	0.080	µg/L	1.00		91.1	40-140	5.70		
Endrin	0.88	0.080	µg/L	1.00		87.7	40-140	6.16		
Endrin [2C]	0.86	0.080	µg/L	1.00		85.8	40-140	4.97		
Endrin Aldehyde	0.89	0.080	µg/L	1.00		88.6	40-140	6.45		
Endrin Aldehyde [2C]	0.86	0.080	µg/L	1.00		85.7	40-140	6.68		
Endrin Ketone	0.94	0.080	µg/L	1.00		93.6	40-140	5.86		
Endrin Ketone [2C]	0.94	0.080	µg/L	1.00		93.9	40-140	5.37		
Heptachlor	0.76	0.050	µg/L	1.00		76.4	40-140	1.80		
Heptachlor [2C]	0.81	0.050	µg/L	1.00		80.7	40-140	0.0335		
Heptachlor Epoxide	0.85	0.050	µg/L	1.00		85.2	40-140	4.09		
Heptachlor Epoxide [2C]	0.82	0.050	µg/L	1.00		82.3	40-140	2.96		
Hexachlorobenzene	0.68	0.050	µg/L	1.00		68.0	40-140	6.85	30	
Hexachlorobenzene [2C]	0.67	0.050	µg/L	1.00		67.4	40-140	5.37	30	
Methoxychlor	0.92	0.50	µg/L	1.00		92.4	40-140	5.64		
Methoxychlor [2C]	1.0	0.50	µg/L	1.00		101	40-140	6.53		
Surrogate: Decachlorobiphenyl	1.66		µg/L	2.00		82.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.65		µg/L	2.00		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.24		µg/L	2.00		62.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.20		µg/L	2.00		60.2	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207561 - SW-846 3510C</b>										
<b>Matrix Spike (B207561-MS1)</b>	<b>Source: 18G0240-01</b>			Prepared: 07/10/18 Analyzed: 07/13/18						
Alachlor	0.91	0.20	µg/L	1.00	ND	91.3	30-150			
Alachlor [2C]	0.97	0.20	µg/L	1.00	ND	96.9	30-150			
Aldrin	0.74	0.050	µg/L	1.00	ND	73.9	30-150			
Aldrin [2C]	0.69	0.050	µg/L	1.00	ND	68.8	30-150			
alpha-BHC	0.64	0.050	µg/L	1.00	ND	64.5	30-150			
alpha-BHC [2C]	0.65	0.050	µg/L	1.00	ND	65.3	30-150			
beta-BHC	0.69	0.050	µg/L	1.00	ND	68.9	30-150			
beta-BHC [2C]	0.71	0.050	µg/L	1.00	ND	70.6	30-150			
delta-BHC	1.2	0.050	µg/L	1.00	ND	117	30-150			
delta-BHC [2C]	0.77	0.050	µg/L	1.00	ND	77.0	30-150			
gamma-BHC (Lindane)	0.71	0.030	µg/L	1.00	ND	71.4	30-150			V-06
gamma-BHC (Lindane) [2C]	0.73	0.030	µg/L	1.00	ND	72.6	30-150			
4,4'-DDD	0.90	0.040	µg/L	1.00	ND	89.7	30-150			
4,4'-DDD [2C]	0.87	0.040	µg/L	1.00	ND	87.1	30-150			
4,4'-DDE	0.80	0.040	µg/L	1.00	ND	80.2	30-150			
4,4'-DDE [2C]	0.74	0.040	µg/L	1.00	ND	73.8	30-150			
4,4'-DDT	0.83	0.040	µg/L	1.00	ND	82.6	30-150			
4,4'-DDT [2C]	0.77	0.040	µg/L	1.00	ND	77.3	30-150			
Dieldrin	0.88	0.0020	µg/L	1.00	ND	87.9	30-150			
Dieldrin [2C]	0.83	0.0020	µg/L	1.00	ND	83.0	30-150			
Endosulfan I	0.82	0.050	µg/L	1.00	ND	82.4	30-150			
Endosulfan I [2C]	0.77	0.050	µg/L	1.00	ND	76.9	30-150			
Endosulfan II	0.85	0.080	µg/L	1.00	ND	85.4	30-150			
Endosulfan II [2C]	0.85	0.080	µg/L	1.00	ND	85.1	30-150			
Endosulfan Sulfate	0.93	0.080	µg/L	1.00	ND	93.0	30-150			
Endosulfan Sulfate [2C]	0.88	0.080	µg/L	1.00	ND	87.7	30-150			
Endrin	0.88	0.080	µg/L	1.00	ND	88.1	30-150			
Endrin [2C]	0.84	0.080	µg/L	1.00	ND	84.1	30-150			
Endrin Aldehyde	0.72	0.080	µg/L	1.00	ND	72.4	30-150			
Endrin Aldehyde [2C]	0.72	0.080	µg/L	1.00	ND	72.2	30-150			
Endrin Ketone	0.90	0.080	µg/L	1.00	ND	90.3	30-150			
Endrin Ketone [2C]	0.90	0.080	µg/L	1.00	ND	89.8	30-150			
Heptachlor	0.75	0.050	µg/L	1.00	ND	74.8	30-150			
Heptachlor [2C]	0.78	0.050	µg/L	1.00	ND	78.3	30-150			
Heptachlor Epoxide	0.80	0.050	µg/L	1.00	ND	80.2	30-150			
Heptachlor Epoxide [2C]	0.80	0.050	µg/L	1.00	ND	80.4	30-150			
Hexachlorobenzene	0.70	0.050	µg/L	1.00	ND	69.7	30-150			
Hexachlorobenzene [2C]	0.69	0.050	µg/L	1.00	ND	68.7	30-150			
Methoxychlor	0.87	0.50	µg/L	1.00	ND	86.9	30-150			
Methoxychlor [2C]	0.93	0.50	µg/L	1.00	ND	93.1	30-150			
Surrogate: Decachlorobiphenyl	0.782		µg/L	2.00		39.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.778		µg/L	2.00		38.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.33		µg/L	2.00		66.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.26		µg/L	2.00		63.0	30-150			

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## BREAKDOWN REPORT

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**Lab Sample ID:** S025215-PEM1 **Analyzed:** 07/13/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 0.93  
Endrin [1] 2.27

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 1.59  
Endrin [2] 2.54

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## BREAKDOWN REPORT

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**Lab Sample ID:** S025215-PEM2 **Analyzed:** 07/13/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 0.90  
Endrin [1] 2.21

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 1.51  
Endrin [2] 2.49

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## BREAKDOWN REPORT

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**Lab Sample ID:** S025215-PEM3 **Analyzed:** 07/13/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 0.99  
Endrin [1] 2.71

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BREAKDOWN REPORT

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Lab Sample ID: S025215-PEM3 Analyzed: 07/13/2018

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Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.66
Endrin [2]	3.19

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BREAKDOWN REPORT

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Lab Sample ID: S025215-PEM4 Analyzed: 07/14/2018

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Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.05
Endrin [1]	3.11

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Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.78
Endrin [2]	3.61

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*

Lab Sample ID:                   B207561-BS1                        Date(s) Analyzed:           07/13/2018                     07/13/2018            
 Instrument ID (1):                   ECD2                        Instrument ID (2):                   ECD2                    
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.684	0.000	0.000	0.91	
	2	7.621	0.000	0.000	0.89	2.2
4,4'-DDE	1	7.220	0.000	0.000	0.88	
	2	7.174	0.000	0.000	0.81	8.3
4,4'-DDT	1	7.902	0.000	0.000	0.90	
	2	7.867	0.000	0.000	0.87	3.4
Alachlor	1	6.624	0.000	0.000	0.91	
	2	6.315	0.000	0.000	0.97	6.4
Aldrin	1	6.534	0.000	0.000	0.79	
	2	6.390	0.000	0.000	0.72	9.3
alpha-BHC	1	5.760	0.000	0.000	0.69	
	2	5.635	0.000	0.000	0.68	1.5
beta-BHC	1	6.035	0.000	0.000	0.72	
	2	5.920	0.000	0.000	0.73	1.4
delta-BHC	1	6.163	0.000	0.000	0.82	
	2	6.120	0.000	0.000	0.78	5.0
Dieldrin	1	7.465	0.000	0.000	0.88	
	2	7.300	0.000	0.000	0.79	10.8
Endosulfan I	1	7.282	0.000	0.000	0.80	
	2	7.092	0.000	0.000	0.77	3.8
Endosulfan II	1	7.823	0.000	0.000	0.85	
	2	7.699	0.000	0.000	0.83	2.4
Endosulfan Sulfate	1	8.425	0.000	0.000	0.90	
	2	8.164	0.000	0.000	0.86	4.6
Endrin	1	7.647	0.000	0.000	0.82	
	2	7.534	0.000	0.000	0.82	0.0
Endrin Aldehyde	1	8.133	0.000	0.000	0.83	
	2	7.963	0.000	0.000	0.80	3.7
Endrin Ketone	1	8.600	0.000	0.000	0.88	
	2	8.512	0.000	0.000	0.89	1.1
gamma-BHC (Lindane)	1	5.978	0.000	0.000	0.74	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8081B*

Lab Sample ID:                     B207561-BS1                                          Date(s) Analyzed:           07/13/2018                     07/13/2018          

Instrument ID (1):                     ECD2                                          Instrument ID (2):                     ECD2                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.867	0.000	0.000	0.75	1.3
Heptachlor	1	6.314	0.000	0.000	0.78	
	2	6.164	0.000	0.000	0.81	3.8
Heptachlor Epoxide	1	6.981	0.000	0.000	0.82	
	2	6.802	0.000	0.000	0.80	2.5
Hexachlorobenzene	1	5.644	0.000	0.000	0.73	
	2	5.543	0.000	0.000	0.71	2.8
Methoxychlor	1	8.240	0.000	0.000	0.87	
	2	8.358	0.000	0.000	0.94	7.7

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**LCS Dup**

*SW-846 8081B*

Lab Sample ID:                     B207561-BSD1                          Date(s) Analyzed:           07/13/2018                     07/13/2018          

Instrument ID (1):                     ECD2                          Instrument ID (2):                     ECD2                    

GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.684	0.000	0.000	0.98	
	2	7.622	0.000	0.000	0.94	4.2
4,4'-DDE	1	7.220	0.000	0.000	0.93	
	2	7.175	0.000	0.000	0.85	9.0
4,4'-DDT	1	7.903	0.000	0.000	0.96	
	2	7.868	0.000	0.000	0.92	5.3
Alachlor	1	6.624	0.000	0.000	0.98	
	2	6.316	0.000	0.000	1.0	2.0
Aldrin	1	6.533	0.000	0.000	0.79	
	2	6.390	0.000	0.000	0.73	7.9
alpha-BHC	1	5.760	0.000	0.000	0.64	
	2	5.634	0.000	0.000	0.65	1.6
beta-BHC	1	6.035	0.000	0.000	0.71	
	2	5.921	0.000	0.000	0.73	2.8
delta-BHC	1	6.163	0.000	0.000	0.80	
	2	6.120	0.000	0.000	0.79	1.3
Dieldrin	1	7.466	0.000	0.000	0.93	
	2	7.301	0.000	0.000	0.83	11.4
Endosulfan I	1	7.283	0.000	0.000	0.84	
	2	7.093	0.000	0.000	0.79	6.1
Endosulfan II	1	7.823	0.000	0.000	0.91	
	2	7.700	0.000	0.000	0.88	3.4
Endosulfan Sulfate	1	8.425	0.000	0.000	0.95	
	2	8.165	0.000	0.000	0.91	4.3
Endrin	1	7.648	0.000	0.000	0.88	
	2	7.534	0.000	0.000	0.86	2.3
Endrin Aldehyde	1	8.134	0.000	0.000	0.89	
	2	7.964	0.000	0.000	0.86	3.4
Endrin Ketone	1	8.601	0.000	0.000	0.94	
	2	8.513	0.000	0.000	0.94	0.0
gamma-BHC (Lindane)	1	5.978	0.000	0.000	0.72	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8081B*

Lab Sample ID:                   B207561-BSD1                                        Date(s) Analyzed:           07/13/2018                     07/13/2018          

Instrument ID (1):                   ECD2                                        Instrument ID (2):                   ECD2                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.867	0.000	0.000	0.73	1.4
Heptachlor	1	6.314	0.000	0.000	0.76	
	2	6.164	0.000	0.000	0.81	6.4
Heptachlor Epoxide	1	6.981	0.000	0.000	0.85	
	2	6.802	0.000	0.000	0.82	3.6
Hexachlorobenzene	1	5.644	0.000	0.000	0.68	
	2	5.542	0.000	0.000	0.67	1.5
Methoxychlor	1	8.241	0.000	0.000	0.92	
	2	8.360	0.000	0.000	1.0	8.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B207561-MS1                                          Date(s) Analyzed:           07/13/2018                     07/13/2018          

Instrument ID (1):                     ECD2                                          Instrument ID (2):                     ECD2                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.683	0.000	0.000	0.90	
	2	7.621	0.000	0.000	0.87	3.4
4,4'-DDE	1	7.220	0.000	0.000	0.80	
	2	7.175	0.000	0.000	0.74	7.8
4,4'-DDT	1	7.901	0.000	0.000	0.83	
	2	7.867	0.000	0.000	0.77	7.5
Alachlor	1	6.623	0.000	0.000	0.91	
	2	6.316	0.000	0.000	0.97	6.4
Aldrin	1	6.533	0.000	0.000	0.74	
	2	6.391	0.000	0.000	0.69	7.0
alpha-BHC	1	5.760	0.000	0.000	0.64	
	2	5.635	0.000	0.000	0.65	0.0
beta-BHC	1	6.035	0.000	0.000	0.69	
	2	5.921	0.000	0.000	0.71	2.9
delta-BHC	1	6.161	0.000	0.000	1.2	
	2	6.121	0.000	0.000	0.77	43.7
Dieldrin	1	7.464	0.000	0.000	0.88	
	2	7.300	0.000	0.000	0.83	5.9
Endosulfan I	1	7.281	0.000	0.000	0.82	
	2	7.093	0.000	0.000	0.77	6.3
Endosulfan II	1	7.822	0.000	0.000	0.85	
	2	7.699	0.000	0.000	0.85	0.0
Endosulfan Sulfate	1	8.425	0.000	0.000	0.93	
	2	8.165	0.000	0.000	0.88	5.5
Endrin	1	7.647	0.000	0.000	0.88	
	2	7.534	0.000	0.000	0.84	4.7
Endrin Aldehyde	1	8.133	0.000	0.000	0.72	
	2	7.963	0.000	0.000	0.72	0.0
Endrin Ketone	1	8.600	0.000	0.000	0.90	
	2	8.512	0.000	0.000	0.90	0.0
gamma-BHC (Lindane)	1	5.978	0.000	0.000	0.71	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B207561-MS1                                          Date(s) Analyzed:           07/13/2018                     07/13/2018          

Instrument ID (1):                     ECD2                                          Instrument ID (2):                     ECD2                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.867	0.000	0.000	0.73	2.8
Heptachlor	1	6.313	0.000	0.000	0.75	
	2	6.165	0.000	0.000	0.78	3.9
Heptachlor Epoxide	1	6.981	0.000	0.000	0.80	
	2	6.802	0.000	0.000	0.80	0.0
Hexachlorobenzene	1	5.642	0.000	0.000	0.70	
	2	5.542	0.000	0.000	0.69	1.4
Methoxychlor	1	8.240	0.000	0.000	0.87	
	2	8.359	0.000	0.000	0.93	6.7

---

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

**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	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018

**Company Name:** AECOM CORP  
**Address:** COMMERCE DRIVE, ROCKY HILL, CT  
**Phone:**  
**Project Name:** GREENWICH HIGH SCHOOL  
**Project Location:** GREENWICH, CT  
**Project Number:** 60432356  
**Project Manager:** MATT ROOP  
**Con-Test Quote Name/Number:**  
**Invoice Recipient:**  
**Sampled By:** JOHN CRESPO

**Requested Turnaround Time**  
7-Day  10-Day   
Due Date: STANDARD

**Rush-Approval Required**  
1-Day  3-Day   
2-Day  4-Day

**Data Delivery**  
Format: PDF  EXCEL   
Other:  
CLP Like Data Pkg Required:   
Email To:  
Fax To #:

TOTAL AND SPLP'S  
PESTICIDES, PCB'S, HCB,  
ERL, PAH'S, PCB'S, SVESST,  
TOTAL AND SPLP METALS

ANALYSIS REQUESTED  
RESIDUAL  
SPLP  
SPLP 8081 Pest

# of Containers  
Preservation Code  
Container Code

**Dissolved Metals Samples**  
 Field Filtered  
 Lab to Filter

**Orthophosphate Samples**  
 Field Filtered  
 Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code											
01	SCORE BOARD TRENCH 01 (0-2')	6/28/18 10:00	-	-	✓	S	U	X										
02	SCORE BOARD TRENCH 02 (0-2')	6/28/18 10:35	-	-	✓	S	U	X										
03	SCORE BOARD TRENCH 03 (0-2')	6/27/18 11:05	-	-	✓	S	U	X										
04	SCORE BOARD TRENCH 04 (0-2')	6/27/18 11:50	-	-	✓	S	U	X										
-01	SCHOOL FRONT 20180628 (0-2')	6/28/18 13:35	-	-	✓	S	U	X										
06	H27-SB603 (1-2')	6/28/18 14:24	-	-	✓	S	U			X	X							
07	DUP 20180628	6/28/18 2:00	-	-	✓	S	U			X								

**1 Matrix Codes:**  
GW = Ground Water  
WW = Waste Water  
DW = Drinking Water  
A = Air  
S = Soil  
SL = Sludge  
SOL = Solid  
O = Other (please define)

**2 Preservation Codes:**  
I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium Bisulfate  
X = Sodium Hydroxide  
T = Sodium Thiosulfate  
O = Other (please define)

**3 Container Codes:**  
A = Amber Glass  
G = Glass  
P = Plastic  
ST = Sterile  
V = Vial  
S = Summa Canister  
T = Tedlar Bag  
O = Other (please define)

**Comments:**  
\* NOTE: HOLD H27-SB603 (1-2') UNTIL FURTHER DIRECTION FROM MATT ROOP FOR SPLP ANALYSIS  
See attached e-mail request - ALB 7-9-18  
R DEC JAP NC

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: 13:54 6/28/18  
**Received by:** (signature) Date/Time: 15:05 6/28/18  
**Relinquished by:** (signature) Date/Time: 19:30 6/28/18  
**Received by:** (signature) Date/Time: 6/28/18 8:43

**Detection Limit Requirements:** MA  CT  Other:

**Special Requirements:** MA MCP Required  MCP Certification Form Required  CT RCP Required  RCP Certification Form Required  MA State DW Required  PWSID #

**Project Entity:**  
 Government  Municipality  MWPA  WRTA  
 Federal  21 J  School  MBTA  
 City  Brownfield

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**Other:**  
 Chromatogram  
 AIHA-LAP, LLC

**PCB ONLY**  
 Soxhlet  
 Non Soxhlet

**Aaron Benoit**

---

**From:** Rood, Matthew  
**Sent:** Monday, July 09, 2018 11:17 AM  
**To:** Aaron L. Benoit (aaron.benoit@contestlabs.com)  
**Subject:** FW: Con-Test Analytical Laboratory 60432356 - Greenwich High School: 60432356.0500  
**Attachments:** 18F1465\_1 Contest CTRSR 07 06 18 1242.zip; 18F1465\_1 Contest\_Final 07 06 18 1242.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Reactivation

Aaron, can you run the sample "School Front" for SPLP pesticides?

Thanks

Matt

Matthew Rood, LEP  
Project Manager, Environment, New England D +1-860-263-5748 [matthew.rood@aecom.com](mailto:matthew.rood@aecom.com)

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500 Enterprise Drive  
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-----Original Message-----

**From:** Do Not [Reply\\_reports@contestlabs.com](mailto:Reply_reports@contestlabs.com) [<mailto:reports@contestlabs.com>]  
**Sent:** Friday, July 06, 2018 12:45 PM  
**To:** Rood, Matthew  
**Subject:** Con-Test Analytical Laboratory 60432356 - Greenwich High School: 60432356.0500

This is an automated message from the Element DataSystem® LIMS at Con-Test Analytical Laboratory. It includes one or more file attachments.

If you have any questions about this email or if this email has been sent to you in error, please contact:

Con-Test Analytical Laboratory  
39 Spruce Street  
East Longmeadow, MA 01028  
413.525.2332 Phone  
413.525.6405 Fax

Submitting Client: AECOM Environment - Rocky Hill, CT Project Name: 60432356 - Greenwich High School

We value your feedback.

Con-Test is committed to quality and continuously improving deliverables and services to our clients. Please go online and complete the short survey regarding your experience with Con-Test using the following link:

<http://survey.constantcontact.com/survey/a07ed4edh3zis9aj7h5/start>

Each entry will be entered for a \$100 gift card in a monthly drawing.



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18G0240

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G0240-01

06/28/2018

*List RCP Methods Used:*

SW-846 1312, SW-846 8081B

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Tod E. Kopyscinski

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:** 07/16/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 18, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich High School  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18G0396

Enclosed are results of analyses for samples received by the laboratory on July 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 7/18/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18G0396

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

PROJECT LOCATION: Greenwich High School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
I26-SB607 (0-1')	18G0396-01	Soil		SM 2540G SW-846 8081B	
H26-SB613 (0-1')	18G0396-02	Soil		SM 2540G SW-846 8081B	
G27-SB612 (0-1')	18G0396-03	Soil		SM 2540G SW-846 8081B	
G29-SB610 (0-1')	18G0396-04	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8081B****Qualifications:****DL-03**

Elevated reporting limit due to matrix.

**Analyte & Samples(s) Qualified:**

18G0396-04[G29-SB610 (0-1')]

**P-02**

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

**Analyte & Samples(s) Qualified:****Chlordane**

18G0396-02[H26-SB613 (0-1')], 18G0396-03[G27-SB612 (0-1')]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: 126-SB607 (0-1')

Sampled: 7/3/2018 07:35

Sample ID: 18G0396-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	7/5/18	7/12/18 8:12	MRL

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Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: I26-SB607 (0-1')

Sampled: 7/3/2018 07:35

Sample ID: 18G0396-01

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Chlordane [2]	1.0	0.20	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Heptachlor epoxide [1]	0.14	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/12/18	7/17/18 0:45	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.4	30-150					7/17/18 0:45	
Decachlorobiphenyl [2]		75.5	30-150					7/17/18 0:45	
Tetrachloro-m-xylene [1]		90.2	30-150					7/17/18 0:45	
Tetrachloro-m-xylene [2]		83.6	30-150					7/17/18 0:45	

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Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: H26-SB613 (0-1')

Sampled: 7/3/2018 08:00

Sample ID: 18G0396-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.0		% Wt	1		SM 2540G	7/5/18	7/12/18 8:12	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: H26-SB613 (0-1')

Sampled: 7/3/2018 08:00

Sample ID: 18G0396-02

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Chlordane [1]	0.54	0.20	µg/L	1	P-02	SW-846 8081B	7/12/18	7/17/18 1:12	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Heptachlor epoxide [1]	0.19	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:12	JMB
<b>Surrogates</b>		<b>% Recovery</b>			<b>Recovery Limits</b>				<b>Flag/Qual</b>
Decachlorobiphenyl [1]		75.7			30-150			7/17/18 1:12	
Decachlorobiphenyl [2]		74.4			30-150			7/17/18 1:12	
Tetrachloro-m-xylene [1]		92.1			30-150			7/17/18 1:12	
Tetrachloro-m-xylene [2]		81.8			30-150			7/17/18 1:12	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: G27-SB612 (0-1')

Sampled: 7/3/2018 09:36

Sample ID: 18G0396-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	7/5/18	7/12/18 8:12	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: G27-SB612 (0-1')

Sampled: 7/3/2018 09:36

Sample ID: 18G0396-03

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Chlordane [1]	0.78	0.20	µg/L	1	P-02	SW-846 8081B	7/12/18	7/17/18 1:39	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Heptachlor epoxide [1]	0.25	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/12/18	7/17/18 1:39	JMB
<b>Surrogates</b>		<b>% Recovery</b>		<b>Recovery Limits</b>	<b>Flag/Qual</b>				
Decachlorobiphenyl [1]		69.0		30-150				7/17/18 1:39	
Decachlorobiphenyl [2]		68.2		30-150				7/17/18 1:39	
Tetrachloro-m-xylene [1]		84.5		30-150				7/17/18 1:39	
Tetrachloro-m-xylene [2]		77.3		30-150				7/17/18 1:39	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: G29-SB610 (0-1')

Sampled: 7/3/2018 11:28

Sample ID: 18G0396-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	7/5/18	7/12/18 8:12	MRL

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Project Location: Greenwich High School

Sample Description:

Work Order: 18G0396

Date Received: 7/11/2018

Field Sample #: G29-SB610 (0-1')

Sampled: 7/3/2018 11:28

Sample ID: 18G0396-04

Sample Matrix: Soil

Sample Flags: DL-03

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	1.0	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Aldrin [1]	ND	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
alpha-BHC [1]	ND	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
beta-BHC [1]	ND	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
delta-BHC [1]	ND	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
gamma-BHC (Lindane) [1]	ND	0.15	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Chlordane [2]	5.7	1.0	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
4,4'-DDD [1]	ND	0.20	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
4,4'-DDE [1]	ND	0.20	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
4,4'-DDT [1]	ND	0.20	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Dieldrin [1]	ND	0.010	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Endosulfan I [2]	ND	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Endosulfan II [1]	ND	0.40	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Endosulfan sulfate [1]	ND	0.40	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Endrin [1]	ND	0.40	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Endrin aldehyde [1]	ND	0.40	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Endrin ketone [1]	ND	0.40	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Heptachlor [1]	ND	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Heptachlor epoxide [2]	1.3	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Hexachlorobenzene [1]	ND	0.25	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Methoxychlor [1]	ND	2.5	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Toxaphene [1]	ND	5.0	µg/L	5		SW-846 8081B	7/12/18	7/17/18 5:42	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		56.9	30-150					7/17/18 5:42	
Decachlorobiphenyl [2]		58.0	30-150					7/17/18 5:42	
Tetrachloro-m-xylene [1]		82.5	30-150					7/17/18 5:42	
Tetrachloro-m-xylene [2]		81.3	30-150					7/17/18 5:42	

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**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18G0396-01 [I26-SB607 (0-1')]	B207237	07/05/18
18G0396-02 [H26-SB613 (0-1')]	B207237	07/05/18
18G0396-03 [G27-SB612 (0-1')]	B207237	07/05/18
18G0396-04 [G29-SB610 (0-1')]	B207237	07/05/18

**Prep Method: SW-846 3510C-SW-846 8081B**

**Leachates were extracted on 7/11/2018 per SW-846 1312 in Batch B207697**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18G0396-01 [I26-SB607 (0-1')]	B207785	500	5.00	07/12/18
18G0396-02 [H26-SB613 (0-1')]	B207785	500	5.00	07/12/18
18G0396-03 [G27-SB612 (0-1')]	B207785	500	5.00	07/12/18
18G0396-04 [G29-SB610 (0-1')]	B207785	500	5.00	07/12/18

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207785 - SW-846 3510C</b>										
<b>Matrix Spike (B207785-MS1)</b>	<b>Source: 18G0396-01</b>			Prepared: 07/12/18 Analyzed: 07/17/18						
Alachlor	1.4	0.20	µg/L	1.00	ND	141	30-150			
Alachlor [2C]	1.1	0.20	µg/L	1.00	ND	105	30-150			
Aldrin	1.0	0.050	µg/L	1.00	ND	102	30-150			
Aldrin [2C]	0.97	0.050	µg/L	1.00	ND	97.4	30-150			
alpha-BHC	1.0	0.050	µg/L	1.00	ND	99.7	30-150			
alpha-BHC [2C]	0.96	0.050	µg/L	1.00	ND	95.8	30-150			
beta-BHC	0.98	0.050	µg/L	1.00	ND	98.0	30-150			
beta-BHC [2C]	0.93	0.050	µg/L	1.00	ND	92.7	30-150			
delta-BHC	1.0	0.050	µg/L	1.00	ND	102	30-150			
delta-BHC [2C]	1.0	0.050	µg/L	1.00	ND	99.8	30-150			
gamma-BHC (Lindane)	1.0	0.030	µg/L	1.00	ND	102	30-150			
gamma-BHC (Lindane) [2C]	1.0	0.030	µg/L	1.00	ND	100	30-150			
4,4'-DDD	1.1	0.040	µg/L	1.00	ND	108	30-150			
4,4'-DDD [2C]	1.0	0.040	µg/L	1.00	ND	104	30-150			
4,4'-DDE	1.1	0.040	µg/L	1.00	ND	108	30-150			
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00	ND	103	30-150			
4,4'-DDT	1.1	0.040	µg/L	1.00	ND	110	30-150			
4,4'-DDT [2C]	1.1	0.040	µg/L	1.00	ND	112	30-150			
Dieldrin	1.1	0.0020	µg/L	1.00	ND	111	30-150			
Dieldrin [2C]	0.99	0.0020	µg/L	1.00	ND	99.4	30-150			
Endosulfan I	1.1	0.050	µg/L	1.00	ND	114	30-150			
Endosulfan I [2C]	0.98	0.050	µg/L	1.00	ND	98.1	30-150			
Endosulfan II	1.0	0.080	µg/L	1.00	ND	99.7	30-150			
Endosulfan II [2C]	0.99	0.080	µg/L	1.00	ND	99.5	30-150			
Endosulfan Sulfate	1.1	0.080	µg/L	1.00	ND	106	30-150			
Endosulfan Sulfate [2C]	0.99	0.080	µg/L	1.00	ND	98.7	30-150			
Endrin	0.99	0.080	µg/L	1.00	ND	99.2	30-150			
Endrin [2C]	0.98	0.080	µg/L	1.00	ND	98.3	30-150			
Endrin Aldehyde	0.92	0.080	µg/L	1.00	ND	92.4	30-150			
Endrin Aldehyde [2C]	0.91	0.080	µg/L	1.00	ND	90.9	30-150			
Endrin Ketone	1.0	0.080	µg/L	1.00	ND	104	30-150			
Endrin Ketone [2C]	1.0	0.080	µg/L	1.00	ND	100	30-150			
Heptachlor	0.99	0.050	µg/L	1.00	ND	98.7	30-150			
Heptachlor [2C]	0.99	0.050	µg/L	1.00	ND	99.4	30-150			
Heptachlor Epoxide	1.1	0.050	µg/L	1.00	0.14	98.4	30-150			
Heptachlor Epoxide [2C]	1.1	0.050	µg/L	1.00	0.11	101	30-150			
Hexachlorobenzene	1.0	0.050	µg/L	1.00	ND	104	30-150			
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00	ND	104	30-150			
Methoxychlor	1.1	0.50	µg/L	1.00	ND	105	30-150			
Methoxychlor [2C]	1.3	0.50	µg/L	1.00	ND	131	30-150			
Surrogate: Decachlorobiphenyl	1.64		µg/L	2.00		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.60		µg/L	2.00		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.94		µg/L	2.00		96.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.77		µg/L	2.00		88.7	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S025325-PEM1 Analyzed: 07/16/2018

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<b>Column Number:</b>	<b>1</b>
<b>Analyte</b>	<b>% Breakdown</b>
4,4'-DDT [1]	1.79
Endrin [1]	1.85

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<b>Column Number:</b>	<b>2</b>
<b>Analyte</b>	<b>% Breakdown</b>
4,4'-DDT [2]	3.34
Endrin [2]	2.34

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BREAKDOWN REPORT

Lab Sample ID: S025325-PEM2 Analyzed: 07/17/2018

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<b>Column Number:</b>	<b>1</b>
<b>Analyte</b>	<b>% Breakdown</b>
4,4'-DDT [1]	2.09
Endrin [1]	2.08

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<b>Column Number:</b>	<b>2</b>
<b>Analyte</b>	<b>% Breakdown</b>
4,4'-DDT [2]	3.46
Endrin [2]	2.69

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

I26-SB607 (0-1')

*SW-846 8081B*

Lab Sample ID: 18G0396-01 Date(s) Analyzed: 07/17/2018 07/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	1.0	29.9
Heptachlor Epoxide	1	6.963	0.000	0.000	0.14	
	2	6.900	0.000	0.000	0.11	24.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**H26-SB613 (0-1')**

Lab Sample ID: 18G0396-02 Date(s) Analyzed: 07/17/2018 07/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	0.000	0.000	0.54	
	2	0.000	0.000	0.000	0.91	51.0
Heptachlor Epoxide	1	6.963	0.000	0.000	0.19	
	2	6.900	0.000	0.000	0.18	5.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**G27-SB612 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18G0396-03 Date(s) Analyzed: 07/17/2018 07/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	1.4	56.9
Heptachlor Epoxide	1	6.963	0.000	0.000	0.25	
	2	6.900	0.000	0.000	0.22	12.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**G29-SB610 (0-1')**

Lab Sample ID: 18G0396-04 Date(s) Analyzed: 07/17/2018 07/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	0.000	0.000	4.5	
	2	0.000	0.000	0.000	5.7	23.5
Heptachlor Epoxide	1	6.961	0.000	0.000	1.3	
	2	6.898	0.000	0.000	1.3	0.0





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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
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**No certified Analyses included in this Report**

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332  
Fax: 413-525-6405

~~1860089~~  
**18G0396**

http://www.contestlabs.com  
CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1\_03242017

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 2

Email: info@contestlabs.com

Company Name: **AECOM CORP.**  
Address: **COMMERCIAL DR., ROCKY HILL, CT**  
Phone:  
Project Name: **GREENWICH HIGH SCHOOL**  
Project Location: **GREENWICH, CT**  
Project Number: **60432356**  
Project Manager: **MATT ROOP**  
Con-Test Quote Name/Number:  
Invoice Recipient:  
Sampled By: **JOHN CRESPO**

**Requested Turnaround Time**  
7-Day  10-Day   
Due Date: **STAN D AND**

**Rush Approval Required**  
1-Day  3-Day   
2-Day  4-Day

**Data Delivery**  
Format: PDF  EXCEL   
Other:  
CLP Like Data Pkg Required:   
Email To:  
Fax To #:

**ANALYSIS REQUESTED**

# of Containers  
Preservation Code  
Container Code

**Dissolved Metals Samples**  
 Field Filtered  
 Lab to Filter

**Orthophosphate Samples**  
 Field Filtered  
 Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	RESIDUES		SPLP	
-01 ①	I26-SB607(0-1')	7/3/18	7:35	-	✓	S	U	X	X	X	X
-02 ②	H26-SB613(0-1')		8:00	-	✓	S	U	X	X	X	X
	I27-SB608(0-1')		8:20	-	✓	S	U	X	X		
	H27-SB609(1-2')		9:07	-	✓	S	U	X	X		
-03 ⑤	G27-SB612(0-1')		9:36	-	✓	S	U	X	X	X	X
	H28-SB605(0-1')		10:05	-	✓	S	U	X	X		
	H28-SB605(0-1')MS		10:07	-	✓	S	U	X	X		
	H28-SB605(0-1')MSD		10:09	-	✓	S	U	X	X		
	H29-SB609(0-1')		10:32	-	✓	S	U	X	X		
	G28-SB611(0-1')		11:05	-	✓	S	U	X	X		

**1 Matrix Codes:**  
GW = Ground Water  
WW = Waste Water  
DW = Drinking Water  
A = Air  
S = Soil  
SL = Sludge  
SOL = Solid  
O = Other (please define)

**2 Preservation Codes:**  
I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium Bisulfate  
X = Sodium Hydroxide  
T = Sodium Thiosulfate  
O = Other (please define)

**3 Container Codes:**  
A = Amber Glass  
G = Glass  
P = Plastic  
ST = Sterile  
V = Vial  
S = Summa Canister  
T = Tedlar Bag  
O = Other (please define)

Comments: **(X) NOTE: HOLD ALL SPLP SAMPLES UNTIL FURTHER DIRECTIONS FROM MATT ROOP. - RDEC JAPNC**

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) *[Signature]* Date/Time: 7/3/18

Received by: (signature) *[Signature]* Date/Time: 7/3/18 1:30

Relinquished by: (signature) *[Signature]* Date/Time: 7/3/18 4:25

Received by: (signature) *[Signature]* Date/Time: 7-3-18 16:25

Relinquished by: (signature) *[Signature]* Date/Time:

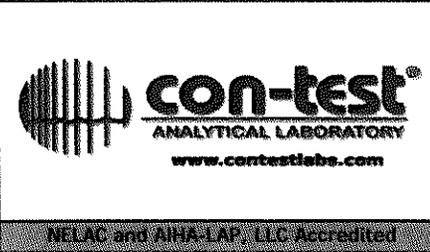
Received by: (signature) *[Signature]* Date/Time:

**Detection Limit Requirements**  
MA

**Special Requirements**  
 MA MCP Required  
 MCP Certification Form Required  
 CT RCP Required  
 RCP Certification Form Required  
 MA State DW Required

**Other**  
PWSID #

**Project Entity**  
 Government  Municipality  MWRA  WRTA  
 Federal  21 J  School  MBTA  
 City  Brownfield



**PCB ONLY**  
 Soxhlet  
 Non Soxhlet

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**con-test**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client A ECOM

Received By ESD Date 7-3-0 Time 1625

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 3.8  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? F  
Did COC include all pertinent Information? Client T Analysis T Sampler Name F  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T  
Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
Are there Rushes? F Who was notified? \_\_\_\_\_  
Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T  
Is there Headspace where applicable? F MS/MSD? F  
Proper Media/Containers Used? T Is splitting samples required? F  
Were trip blanks received? F On COC? F  
Do all samples have the proper pH? NA Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#		#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear <u>10</u>
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear <u>12</u>
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

**Unused Media**

Vials	#	Containers:	#		#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

**Aaron Benoit**

---

**From:** Rood, Matthew  
**Sent:** Wednesday, July 11, 2018 3:14 PM  
**To:** Aaron L. Benoit (aaron.benoit@contestlabs.com)  
**Subject:** FW: Con-Test Analytical Laboratory 60432356 - Greenwich High School: 60432356.0500  
**Attachments:** 18G0089\_1 Contest CTRSR 07 11 18 1248.zip; 18G0089\_1 Contest\_Final 07 11 18 1248.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Reactivation

Aaron, can you please run the following for SPLP pesticides:

I26-SB607  
G29-SB610  
G27-SB612  
H26-SB613

Thanks

Matt

Matthew Rood, LEP  
Project Manager, Environment, New England D +1-860-263-5748 [matthew.rood@aecom.com](mailto:matthew.rood@aecom.com)

AECOM  
500 Enterprise Drive  
Suite 1A  
Rocky Hill, CT 06067, USA  
T +1-860-263-5800  
aecom.com

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-----Original Message-----

**From:** Do Not [Reply reports@contestlabs.com](mailto:Reply_reports@contestlabs.com) [<mailto:reports@contestlabs.com>]  
**Sent:** Wednesday, July 11, 2018 1:00 PM  
**To:** Rood, Matthew  
**Subject:** Con-Test Analytical Laboratory 60432356 - Greenwich High School: 60432356.0500

This is an automated message from the Element DataSystem® LIMS at Con-Test Analytical Laboratory. It includes one or more file attachments.

If you have any questions about this email or if this email has been sent to you in error, please contact:

Con-Test Analytical Laboratory

39 Spruce Street  
East Longmeadow, MA 01028  
413.525.2332 Phone  
413.525.6405 Fax

Submitting Client: AECOM Environment - Rocky Hill, CT Project Name: 60432356 - Greenwich High School

We value your feedback.

Con-Test is committed to quality and continuously improving deliverables and services to our clients. Please go online and complete the short survey regarding your experience with Con-Test using the following link:

<http://survey.constantcontact.com/survey/a07ed4edh3zis9aj7h5/start>

Each entry will be entered for a \$100 gift card in a monthly drawing.



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich High School

**Project Number:** 18G0396

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G0396-01 thru 18G0396-04

07/03/2018

**List RCP Methods Used:**

SW-846 1312, SW-846 8081B

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 07/18/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 18, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich High School  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18G0464

Enclosed are results of analyses for samples received by the laboratory on July 12, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 7/18/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18G0464

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

PROJECT LOCATION: Greenwich High School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
I27-SB608 (0-1')	18G0464-01	Soil		SM 2540G SW-846 8081B	
H28-SB605 (0-1')	18G0464-02	Soil		SM 2540G SW-846 8081B	
G29-SB606 (0-1')	18G0464-03	Soil		SM 2540G SW-846 8081B	

**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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0464

Date Received: 7/12/2018

Field Sample #: I27-SB608 (0-1')

Sampled: 7/3/2018 08:20

Sample ID: 18G0464-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	7/5/18	7/13/18 7:30	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0464

Date Received: 7/12/2018

Field Sample #: I27-SB608 (0-1')

Sampled: 7/3/2018 08:20

Sample ID: 18G0464-01

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Chlordane [2]	0.34	0.20	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Heptachlor epoxide [2]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/13/18	7/17/18 2:33	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.4	30-150					7/17/18 2:33	
Decachlorobiphenyl [2]		79.0	30-150					7/17/18 2:33	
Tetrachloro-m-xylene [1]		97.6	30-150					7/17/18 2:33	
Tetrachloro-m-xylene [2]		89.3	30-150					7/17/18 2:33	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0464

Date Received: 7/12/2018

Field Sample #: H28-SB605 (0-1')

Sample ID: 18G0464-02

Start Date/Time: 7/3/2018 10:05:00AM

Sample Matrix: Soil

Stop Date/Time: 7/3/2018 10:09:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.6		% Wt	1		SM 2540G	7/5/18	7/13/18 7:30	MRL

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Project Location: Greenwich High School

Sample Description:

Work Order: 18G0464

Date Received: 7/12/2018

Field Sample #: H28-SB605 (0-1')

Sample ID: 18G0464-02

Start Date/Time: 7/3/2018 10:05:00AM

Sample Matrix: Soil

Stop Date/Time: 7/3/2018 10:09:00AM

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:00	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.5	30-150				7/17/18	3:00	
Decachlorobiphenyl [2]		80.1	30-150				7/17/18	3:00	
Tetrachloro-m-xylene [1]		93.3	30-150				7/17/18	3:00	
Tetrachloro-m-xylene [2]		85.6	30-150				7/17/18	3:00	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0464

Date Received: 7/12/2018

Field Sample #: G29-SB606 (0-1')

Sampled: 7/3/2018 11:50

Sample ID: 18G0464-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/5/18	7/13/18 7:30	MRL

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich High School

Sample Description:

Work Order: 18G0464

Date Received: 7/12/2018

Field Sample #: G29-SB606 (0-1')

Sampled: 7/3/2018 11:50

Sample ID: 18G0464-03

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	7/13/18	7/17/18 3:27	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.2	30-150					7/17/18 3:27	
Decachlorobiphenyl [2]		89.5	30-150					7/17/18 3:27	
Tetrachloro-m-xylene [1]		106	30-150					7/17/18 3:27	
Tetrachloro-m-xylene [2]		84.9	30-150					7/17/18 3:27	

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**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18G0464-01 [I27-SB608 (0-1')]	B207237	07/05/18
18G0464-02 [H28-SB605 (0-1')]	B207237	07/05/18
18G0464-03 [G29-SB606 (0-1')]	B207237	07/05/18

**Prep Method: SW-846 3510C-SW-846 8081B**

Leachates were extracted on 7/12/2018 per SW-846 1312 in Batch B207784

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18G0464-01 [I27-SB608 (0-1')]	B207889	500	5.00	07/13/18
18G0464-02 [H28-SB605 (0-1')]	B207889	500	5.00	07/13/18
18G0464-03 [G29-SB606 (0-1')]	B207889	500	5.00	07/13/18

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207889 - SW-846 3510C

Blank (B207889-BLK1)

Prepared: 07/13/18 Analyzed: 07/16/18

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.98		µg/L	2.00		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.91		µg/L	2.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.98		µg/L	2.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.81		µg/L	2.00		90.5	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207889 - SW-846 3510C</b>										
<b>LCS (B207889-BS1)</b>										
					Prepared: 07/13/18 Analyzed: 07/16/18					
Alachlor	1.1	0.20	µg/L	1.00		107	40-140			
Alachlor [2C]	1.0	0.20	µg/L	1.00		100	40-140			
Aldrin	1.0	0.050	µg/L	1.00		101	40-140			
Aldrin [2C]	0.97	0.050	µg/L	1.00		96.5	40-140			
alpha-BHC	0.99	0.050	µg/L	1.00		98.5	40-140			
alpha-BHC [2C]	0.94	0.050	µg/L	1.00		94.5	40-140			
beta-BHC	0.98	0.050	µg/L	1.00		97.9	40-140			
beta-BHC [2C]	0.91	0.050	µg/L	1.00		90.5	40-140			
delta-BHC	1.0	0.050	µg/L	1.00		102	40-140			
delta-BHC [2C]	0.97	0.050	µg/L	1.00		96.7	40-140			
gamma-BHC (Lindane)	1.0	0.030	µg/L	1.00		102	40-140			
gamma-BHC (Lindane) [2C]	0.99	0.030	µg/L	1.00		98.9	40-140			
4,4'-DDD	1.1	0.040	µg/L	1.00		106	40-140			
4,4'-DDD [2C]	0.99	0.040	µg/L	1.00		99.0	40-140			
4,4'-DDE	1.1	0.040	µg/L	1.00		106	40-140			
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00		99.7	40-140			
4,4'-DDT	1.1	0.040	µg/L	1.00		108	40-140			
4,4'-DDT [2C]	1.1	0.040	µg/L	1.00		107	40-140			
Dieldrin	1.0	0.0020	µg/L	1.00		104	40-140			
Dieldrin [2C]	0.96	0.0020	µg/L	1.00		96.2	40-140			
Endosulfan I	0.97	0.050	µg/L	1.00		96.9	40-140			
Endosulfan I [2C]	0.91	0.050	µg/L	1.00		91.0	40-140			
Endosulfan II	0.99	0.080	µg/L	1.00		99.1	40-140			
Endosulfan II [2C]	0.96	0.080	µg/L	1.00		95.9	40-140			
Endosulfan Sulfate	1.0	0.080	µg/L	1.00		102	40-140			
Endosulfan Sulfate [2C]	0.96	0.080	µg/L	1.00		96.1	40-140			
Endrin	0.98	0.080	µg/L	1.00		98.0	40-140			
Endrin [2C]	0.95	0.080	µg/L	1.00		94.9	40-140			
Endrin Aldehyde	0.93	0.080	µg/L	1.00		93.1	40-140			
Endrin Aldehyde [2C]	0.89	0.080	µg/L	1.00		89.0	40-140			
Endrin Ketone	1.0	0.080	µg/L	1.00		102	40-140			
Endrin Ketone [2C]	0.97	0.080	µg/L	1.00		97.0	40-140			
Heptachlor	0.97	0.050	µg/L	1.00		96.6	40-140			
Heptachlor [2C]	0.98	0.050	µg/L	1.00		97.5	40-140			
Heptachlor Epoxide	0.98	0.050	µg/L	1.00		97.5	40-140			
Heptachlor Epoxide [2C]	0.95	0.050	µg/L	1.00		94.7	40-140			
Hexachlorobenzene	1.0	0.050	µg/L	1.00		104	40-140			
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		101	40-140			
Methoxychlor	1.0	0.50	µg/L	1.00		103	40-140			
Methoxychlor [2C]	1.1	0.50	µg/L	1.00		112	40-140			
Surrogate: Decachlorobiphenyl	1.82		µg/L	2.00		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.73		µg/L	2.00		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	2.01		µg/L	2.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.81		µg/L	2.00		90.7	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207889 - SW-846 3510C</b>										
<b>LCS Dup (B207889-BSD1)</b>										
					Prepared: 07/13/18 Analyzed: 07/16/18					
Alachlor	1.1	0.20	µg/L	1.00		109	40-140	1.48		
Alachlor [2C]	1.0	0.20	µg/L	1.00		102	40-140	1.75		
Aldrin	1.0	0.050	µg/L	1.00		103	40-140	2.06		
Aldrin [2C]	0.98	0.050	µg/L	1.00		98.2	40-140	1.78		
alpha-BHC	1.0	0.050	µg/L	1.00		101	40-140	2.37		
alpha-BHC [2C]	0.97	0.050	µg/L	1.00		97.0	40-140	2.63		
beta-BHC	1.0	0.050	µg/L	1.00		100	40-140	2.23		
beta-BHC [2C]	0.94	0.050	µg/L	1.00		93.8	40-140	3.60		
delta-BHC	1.0	0.050	µg/L	1.00		104	40-140	2.02		
delta-BHC [2C]	0.99	0.050	µg/L	1.00		98.9	40-140	2.20		
gamma-BHC (Lindane)	1.0	0.030	µg/L	1.00		105	40-140	2.37		
gamma-BHC (Lindane) [2C]	1.0	0.030	µg/L	1.00		101	40-140	2.42		
4,4'-DDD	1.1	0.040	µg/L	1.00		107	40-140	1.57		
4,4'-DDD [2C]	1.0	0.040	µg/L	1.00		101	40-140	1.93		
4,4'-DDE	1.1	0.040	µg/L	1.00		108	40-140	1.98		
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00		102	40-140	1.79		
4,4'-DDT	1.1	0.040	µg/L	1.00		110	40-140	1.90		
4,4'-DDT [2C]	1.1	0.040	µg/L	1.00		109	40-140	1.87		
Dieldrin	1.1	0.0020	µg/L	1.00		106	40-140	1.88		
Dieldrin [2C]	0.98	0.0020	µg/L	1.00		98.0	40-140	1.91		
Endosulfan I	0.99	0.050	µg/L	1.00		98.8	40-140	1.92		
Endosulfan I [2C]	0.92	0.050	µg/L	1.00		92.4	40-140	1.58		
Endosulfan II	1.0	0.080	µg/L	1.00		101	40-140	1.64		
Endosulfan II [2C]	0.97	0.080	µg/L	1.00		97.5	40-140	1.64		
Endosulfan Sulfate	1.0	0.080	µg/L	1.00		103	40-140	0.843		
Endosulfan Sulfate [2C]	0.97	0.080	µg/L	1.00		97.5	40-140	1.47		
Endrin	1.0	0.080	µg/L	1.00		100	40-140	2.16		
Endrin [2C]	0.97	0.080	µg/L	1.00		97.0	40-140	2.12		
Endrin Aldehyde	0.94	0.080	µg/L	1.00		94.0	40-140	1.01		
Endrin Aldehyde [2C]	0.90	0.080	µg/L	1.00		90.5	40-140	1.66		
Endrin Ketone	1.0	0.080	µg/L	1.00		104	40-140	1.72		
Endrin Ketone [2C]	0.98	0.080	µg/L	1.00		98.4	40-140	1.50		
Heptachlor	0.99	0.050	µg/L	1.00		99.2	40-140	2.69		
Heptachlor [2C]	1.0	0.050	µg/L	1.00		99.7	40-140	2.21		
Heptachlor Epoxide	0.99	0.050	µg/L	1.00		99.4	40-140	1.95		
Heptachlor Epoxide [2C]	0.97	0.050	µg/L	1.00		96.8	40-140	2.15		
Hexachlorobenzene	1.1	0.050	µg/L	1.00		107	40-140	2.65	30	
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		103	40-140	2.09	30	
Methoxychlor	1.1	0.50	µg/L	1.00		105	40-140	1.77		
Methoxychlor [2C]	1.2	0.50	µg/L	1.00		122	40-140	8.82		
Surrogate: Decachlorobiphenyl	1.87		µg/L	2.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.79		µg/L	2.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.99		µg/L	2.00		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.79		µg/L	2.00		89.6	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207889 - SW-846 3510C</b>										
<b>Matrix Spike (B207889-MS1)</b>	<b>Source: 18G0464-02</b>			Prepared: 07/13/18 Analyzed: 07/17/18						
Alachlor	1.2	0.20	µg/L	1.00	ND	117	30-150			
Alachlor [2C]	1.1	0.20	µg/L	1.00	ND	107	30-150			
Aldrin	1.0	0.050	µg/L	1.00	ND	104	30-150			
Aldrin [2C]	1.0	0.050	µg/L	1.00	ND	100	30-150			
alpha-BHC	1.0	0.050	µg/L	1.00	ND	101	30-150			
alpha-BHC [2C]	0.97	0.050	µg/L	1.00	ND	97.3	30-150			
beta-BHC	1.0	0.050	µg/L	1.00	ND	102	30-150			
beta-BHC [2C]	0.95	0.050	µg/L	1.00	ND	95.3	30-150			
delta-BHC	1.1	0.050	µg/L	1.00	ND	112	30-150			
delta-BHC [2C]	1.0	0.050	µg/L	1.00	ND	102	30-150			
gamma-BHC (Lindane)	1.1	0.030	µg/L	1.00	ND	105	30-150			
gamma-BHC (Lindane) [2C]	1.0	0.030	µg/L	1.00	ND	103	30-150			
4,4'-DDD	1.1	0.040	µg/L	1.00	ND	113	30-150			
4,4'-DDD [2C]	1.1	0.040	µg/L	1.00	ND	106	30-150			
4,4'-DDE	1.1	0.040	µg/L	1.00	ND	110	30-150			
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00	ND	105	30-150			
4,4'-DDT	1.1	0.040	µg/L	1.00	ND	114	30-150			
4,4'-DDT [2C]	1.1	0.040	µg/L	1.00	ND	114	30-150			
Dieldrin	1.1	0.0020	µg/L	1.00	ND	110	30-150			
Dieldrin [2C]	1.0	0.0020	µg/L	1.00	ND	105	30-150			
Endosulfan I	1.0	0.050	µg/L	1.00	ND	102	30-150			
Endosulfan I [2C]	0.95	0.050	µg/L	1.00	ND	95.0	30-150			
Endosulfan II	1.0	0.080	µg/L	1.00	ND	105	30-150			
Endosulfan II [2C]	1.0	0.080	µg/L	1.00	ND	102	30-150			
Endosulfan Sulfate	1.1	0.080	µg/L	1.00	ND	106	30-150			
Endosulfan Sulfate [2C]	1.0	0.080	µg/L	1.00	ND	102	30-150			
Endrin	1.1	0.080	µg/L	1.00	ND	106	30-150			
Endrin [2C]	1.0	0.080	µg/L	1.00	ND	102	30-150			
Endrin Aldehyde	0.99	0.080	µg/L	1.00	ND	98.5	30-150			
Endrin Aldehyde [2C]	0.95	0.080	µg/L	1.00	ND	95.3	30-150			
Endrin Ketone	1.1	0.080	µg/L	1.00	ND	109	30-150			
Endrin Ketone [2C]	1.0	0.080	µg/L	1.00	ND	104	30-150			
Heptachlor	1.0	0.050	µg/L	1.00	ND	100	30-150			
Heptachlor [2C]	1.0	0.050	µg/L	1.00	ND	103	30-150			
Heptachlor Epoxide	1.0	0.050	µg/L	1.00	ND	102	30-150			
Heptachlor Epoxide [2C]	1.0	0.050	µg/L	1.00	ND	101	30-150			
Hexachlorobenzene	1.1	0.050	µg/L	1.00	ND	106	30-150			
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00	ND	103	30-150			
Methoxychlor	1.1	0.50	µg/L	1.00	ND	109	30-150			
Methoxychlor [2C]	1.3	0.50	µg/L	1.00	ND	131	30-150			
Surrogate: Decachlorobiphenyl	1.78		µg/L	2.00		89.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.72		µg/L	2.00		86.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.99		µg/L	2.00		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.81		µg/L	2.00		90.4	30-150			

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## BREAKDOWN REPORT

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**Lab Sample ID:** S025325-PEM1 **Analyzed:** 07/16/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 1.79  
Endrin [1] 1.85

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 3.34  
Endrin [2] 2.34

---

## BREAKDOWN REPORT

---

**Lab Sample ID:** S025325-PEM2 **Analyzed:** 07/17/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 2.09  
Endrin [1] 2.08

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 3.46  
Endrin [2] 2.69

---

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*

Lab Sample ID:                   B207889-BS1                        Date(s) Analyzed:           07/16/2018                     07/16/2018            
 Instrument ID (1):                   ECD6                        Instrument ID (2):                   ECD6                    
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.663	0.000	0.000	1.1	
	2	7.723	0.000	0.000	0.99	10.5
4,4'-DDE	1	7.205	0.000	0.000	1.1	
	2	7.275	0.000	0.000	1.0	9.5
4,4'-DDT	1	7.881	0.000	0.000	1.1	
	2	7.967	0.000	0.000	1.1	0.0
Alachlor	1	6.609	0.000	0.000	1.1	
	2	6.406	0.000	0.000	1.0	9.5
Aldrin	1	6.526	0.000	0.000	1.0	
	2	6.487	0.000	0.000	0.97	3.1
alpha-BHC	1	5.757	0.000	0.000	0.99	
	2	5.717	0.000	0.000	0.94	5.2
beta-BHC	1	6.026	0.000	0.000	0.98	
	2	6.006	0.000	0.000	0.91	7.4
delta-BHC	1	6.153	0.000	0.000	1.0	
	2	6.210	0.000	0.000	0.97	3.1
Dieldrin	1	7.445	0.000	0.000	1.0	
	2	7.404	0.000	0.000	0.96	4.1
Endosulfan I	1	7.264	0.000	0.000	0.97	
	2	7.196	0.000	0.000	0.91	6.4
Endosulfan II	1	7.798	0.000	0.000	0.99	
	2	7.805	0.000	0.000	0.96	3.1
Endosulfan Sulfate	1	8.400	0.000	0.000	1.0	
	2	8.255	0.000	0.000	0.96	4.1
Endrin	1	7.626	0.000	0.000	0.98	
	2	7.641	0.000	0.000	0.95	3.1
Endrin Aldehyde	1	8.108	0.000	0.000	0.93	
	2	8.061	0.000	0.000	0.89	4.4
Endrin Ketone	1	8.577	0.000	0.000	1.0	
	2	8.594	0.000	0.000	0.97	3.1
gamma-BHC (Lindane)	1	5.972	0.000	0.000	1.0	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

<b>LCS</b>
------------

Lab Sample ID:                     B207889-BS1                                          Date(s) Analyzed:           07/16/2018                     07/16/2018            
 Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                      
 GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.953	0.000	0.000	0.99	1.0
Heptachlor	1	6.307	0.000	0.000	0.97	
	2	6.258	0.000	0.000	0.98	1.0
Heptachlor Epoxide	1	6.966	0.000	0.000	0.98	
	2	6.902	0.000	0.000	0.95	3.1
Hexachlorobenzene	1	5.646	0.000	0.000	1.0	
	2	5.623	0.000	0.000	1.0	0.0
Methoxychlor	1	8.222	0.000	0.000	1.0	
	2	8.438	0.000	0.000	1.1	9.5

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

<b>LCS Dup</b>
----------------

Lab Sample ID:                     B207889-BSD1                          Date(s) Analyzed:           07/16/2018                     07/16/2018            
 Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.661	0.000	0.000	1.1	
	2	7.723	0.000	0.000	1.0	9.5
4,4'-DDE	1	7.204	0.000	0.000	1.1	
	2	7.274	0.000	0.000	1.0	9.5
4,4'-DDT	1	7.880	0.000	0.000	1.1	
	2	7.966	0.000	0.000	1.1	0.0
Alachlor	1	6.608	0.000	0.000	1.1	
	2	6.406	0.000	0.000	1.0	9.5
Aldrin	1	6.524	0.000	0.000	1.0	
	2	6.488	0.000	0.000	0.98	2.0
alpha-BHC	1	5.756	0.000	0.000	1.0	
	2	5.717	0.000	0.000	0.97	3.1
beta-BHC	1	6.025	0.000	0.000	1.0	
	2	6.007	0.000	0.000	0.94	6.2
delta-BHC	1	6.153	0.000	0.000	1.0	
	2	6.210	0.000	0.000	0.99	1.0
Dieldrin	1	7.445	0.000	0.000	1.1	
	2	7.404	0.000	0.000	0.98	11.5
Endosulfan I	1	7.263	0.000	0.000	0.99	
	2	7.196	0.000	0.000	0.92	7.3
Endosulfan II	1	7.797	0.000	0.000	1.0	
	2	7.805	0.000	0.000	0.97	3.1
Endosulfan Sulfate	1	8.399	0.000	0.000	1.0	
	2	8.254	0.000	0.000	0.97	3.1
Endrin	1	7.625	0.000	0.000	1.0	
	2	7.640	0.000	0.000	0.97	3.1
Endrin Aldehyde	1	8.107	0.000	0.000	0.94	
	2	8.061	0.000	0.000	0.90	4.4
Endrin Ketone	1	8.576	0.000	0.000	1.0	
	2	8.593	0.000	0.000	0.98	2.0
gamma-BHC (Lindane)	1	5.971	0.000	0.000	1.0	



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B207889-MS1                                          Date(s) Analyzed:           07/17/2018                        07/17/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.658	0.000	0.000	1.1	
	2	7.720	0.000	0.000	1.1	0.0
4,4'-DDE	1	7.201	0.000	0.000	1.1	
	2	7.271	0.000	0.000	1.0	9.5
4,4'-DDT	1	7.877	0.000	0.000	1.1	
	2	7.963	0.000	0.000	1.1	0.0
Alachlor	1	6.605	0.000	0.000	1.2	
	2	6.403	0.000	0.000	1.1	8.7
Aldrin	1	6.521	0.000	0.000	1.0	
	2	6.485	0.000	0.000	1.0	0.0
alpha-BHC	1	5.754	0.000	0.000	1.0	
	2	5.714	0.000	0.000	0.97	3.1
beta-BHC	1	6.023	0.000	0.000	1.0	
	2	6.003	0.000	0.000	0.95	5.1
delta-BHC	1	6.150	0.000	0.000	1.1	
	2	6.207	0.000	0.000	1.0	9.5
Dieldrin	1	7.441	0.000	0.000	1.1	
	2	7.402	0.000	0.000	1.0	9.5
Endosulfan I	1	7.260	0.000	0.000	1.0	
	2	7.193	0.000	0.000	0.95	5.1
Endosulfan II	1	7.793	0.000	0.000	1.0	
	2	7.802	0.000	0.000	1.0	9.5
Endosulfan Sulfate	1	8.396	0.000	0.000	1.1	
	2	8.251	0.000	0.000	1.0	9.5
Endrin	1	7.622	0.000	0.000	1.1	
	2	7.637	0.000	0.000	1.0	9.5
Endrin Aldehyde	1	8.104	0.000	0.000	0.99	
	2	8.058	0.000	0.000	0.95	4.1
Endrin Ketone	1	8.574	0.000	0.000	1.1	
	2	8.590	0.000	0.000	1.0	9.5
gamma-BHC (Lindane)	1	5.969	0.000	0.000	1.1	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B207889-MS1                                          Date(s) Analyzed:           07/17/2018                     07/17/2018          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.951	0.000	0.000	1.0	9.5
Heptachlor	1	6.304	0.000	0.000	1.0	
	2	6.255	0.000	0.000	1.0	0.0
Heptachlor Epoxide	1	6.962	0.000	0.000	1.0	
	2	6.899	0.000	0.000	1.0	0.0
Hexachlorobenzene	1	5.642	0.000	0.000	1.1	
	2	5.621	0.000	0.000	1.0	9.5
Methoxychlor	1	8.219	0.000	0.000	1.1	
	2	8.434	0.000	0.000	1.3	16.7

---

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

**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	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

18G0464

Address: COMMERCIAL DR, ROCKY HILL, CT

Phone: GREENWICH HIGH SCHOOL

Project Location: GREENWICH, CT

Project Number: 60432556

Project Manager: MATT ROOD

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By: JOHN CRESPO

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	I26-SB607(0-1)	7/3/18	7:35	-	✓	S	U
2	H26-SB613(0-1)		8:00	-	✓	S	U
3	I27-SB608(0-1)		8:20	-	✓	S	U
4	H27-SB604(1-2)		9:07	-	✓	S	U
5	G27-SB612(0-1)		9:36	-	✓	S	U
6	H28-SB605(0-1)		10:05	-	✓	S	U
-	H28-SB605(0-1)MSD		10:07	-	✓	S	U
-	H28-SB605(0-1)MSD		10:09	-	✓	S	U
7	H29-SB609(0-1)		10:32	-	✓	S	U
8	G28-SB611(0-1)		11:07	-	✓	S	U

NOTE: HOLD ALL SPLP SAMPLES UNTIL FURTHER DIRECTION FROM MATT ROOD.  
- RDEC JAPNC

Requested by (signature)	Date/Time	Special Requirements
<i>John Crespo</i>	7/3/18 1:30	MA MCP Required
<i>John Crespo</i>	7/19/18 1:30	MCP Certification Form Required
<i>John Crespo</i>	7/13/18 4:05	CT RCP Required
<i>John Crespo</i>	7/3/18 16:25	RCP Certification Form Required
<i>John Crespo</i>	7-3-18	MA State DW Required
<i>John Crespo</i>		PWSID #

Detection Entity Requirements	Special Requirements
MA	MA MCP Required
CT	MCP Certification Form Required
Other	CT RCP Required
	RCP Certification Form Required
	MA State DW Required
	PWSID #

Project Entity

Government  Municipality  Other

Federal  21 J  WRTA  Chromatogram

City  Brownfield  MBTA  School  AIHA-LAP, LLC

MA  MA State DW Required

ANALYSIS REQUESTED	Requester	Requester Title	Requester Phone	Requester Email	Requester Address	Requester City	Requester State	Requester Zip	Requester Fax	Requester Email	Requester Fax
SPLP PEST 8081											

Requested Turnaround Time

7-Day  10-Day

Due Date: STAN D AND

High Approval Required

1-Day  3-Day

2-Day  4-Day

Data Delivery

Format: PDF  EXCEL

Other:

CLP Like Data Pkg Required:

Email To:

Fax To #:

Matrix Codes:	Preservation Codes:	Container Codes:
GW = Ground Water	I = Iced	A = Amber Glass
WW = Waste Water	H = HCL	G = Glass
DW = Drinking Water	M = Methanol	P = Plastic
A = Air	N = Nitric Acid	ST = Sterile
S = Soil	S = Sulfuric Acid	V = Vial
SL = Sludge	B = Sodium Bisulfate	S = Summa Canister
SOL = Solid	X = Sodium Hydroxide	T = Tedlar Bag
O = Other (please define)	T = Sodium Thiosulfate	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

# of Containers

Preservation Code

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

SL = Sludge

SOL = Solid

O = Other (please define)

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

O = Other (please define)

3 Container Codes:

A = Amber Glass

G = Glass

P = Plastic

ST = Sterile

V = Vial

S = Summa Canister

T = Tedlar Bag

O = Other (please define)

PCB ONLY

Soxhlet

Non Soxhlet





**con-test**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client A ECOM

Received By ESD Date 7-3-0 Time 1625

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 3.8  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? F  
Did COC include all pertinent Information? Client T Analysis T Sampler Name F  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T  
Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
Are there Rushes? F Who was notified? \_\_\_\_\_  
Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T  
Is there Headspace where applicable? F MS/MSD? F  
Proper Media/Containers Used? T Is splitting samples required? F  
Were trip blanks received? F On COC? F  
Do all samples have the proper pH? NA Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#		#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear <u>10</u>
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear <u>12</u>
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

**Unused Media**

Vials	#	Containers:	#		#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

**Aaron Benoit**

---

**From:** Rood, Matthew  
**Sent:** Thursday, July 12, 2018 3:43 PM  
**To:** Aaron L. Benoit (aaron.benoit@contestlabs.com)  
**Subject:** FW: Con-Test Analytical Laboratory 60432356 - Greenwich High School: 60432356.0500  
**Attachments:** 18G0089\_1 Contest CTRSR 07 11 18 1248.zip; 18G0089\_1 Contest\_Final 07 11 18 1248.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Reactivation

Aaron, can you also add SPLP pesticides to the following samples on this work order:

H28-SB605  
G29-SB606  
I27-SB608

Thanks

Matt

Matthew Rood, LEP  
Project Manager, Environment, New England D +1-860-263-5748 [matthew.rood@aecom.com](mailto:matthew.rood@aecom.com)

AECOM  
500 Enterprise Drive  
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T +1-860-263-5800  
aecom.com

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-----Original Message-----

**From:** Do Not [Reply reports@contestlabs.com](mailto:Reply_reports@contestlabs.com) [<mailto:reports@contestlabs.com>]  
**Sent:** Wednesday, July 11, 2018 1:00 PM  
**To:** Rood, Matthew  
**Subject:** Con-Test Analytical Laboratory 60432356 - Greenwich High School: 60432356.0500

This is an automated message from the Element DataSystem® LIMS at Con-Test Analytical Laboratory. It includes one or more file attachments.

If you have any questions about this email or if this email has been sent to you in error, please contact:

Con-Test Analytical Laboratory  
39 Spruce Street

East Longmeadow, MA 01028  
413.525.2332 Phone  
413.525.6405 Fax

Submitting Client: AECOM Environment - Rocky Hill, CT Project Name: 60432356 - Greenwich High School

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<http://survey.constantcontact.com/survey/a07ed4edh3zis9aj7h5/start>

Each entry will be entered for a \$100 gift card in a monthly drawing.



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich High School

**Project Number:** 18G0464

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G0464-01 thru 18G0464-03

07/03/2018

**List RCP Methods Used:**

SW-846 1312, SW-846 8081B

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>2</b>	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 07/18/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

December 6, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18K1266

Enclosed are results of analyses for samples received by the laboratory on November 29, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 12/6/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18K1266

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
BC27-SB620 (0-1')	18K1266-01	Soil		SM 2540G SW-846 8082A	
BC27-SB620 (2-4')	18K1266-02	Soil		SM 2540G SW-846 8082A	
BB27-SB622 (1-2')	18K1266-03	Soil		SM 2540G SW-846 8082A	
BC27-SB619 (1-2')	18K1266-04	Soil		SM 2540G SW-846 8082A	
BC28-SB121 (1-2')	18K1266-05	Soil		SM 2540G SW-846 8082A	
629-SB626 (1-2')	18K1266-06	Soil		SM 2540G SW-846 8081B	
630-SB625 (0-1')	18K1266-07	Soil		SM 2540G SW-846 8081B	
E31-SB264 (0-1')	18K1266-08	Soil		SM 2540G SW-846 8081B	
F30-SB263 (0-1')	18K1266-09	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8081B**

**Qualifications:**

**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

**Analyte & Samples(s) Qualified:**

**4,4'-DDD**

B218069-BS1, B218069-BSD1

**4,4'-DDE**

B218069-BS1, B218069-BSD1

**gamma-BHC (Lindane)**

B218069-BS1, B218069-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.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (0-1')

Sampled: 11/29/2018 11:18

Sample ID: 18K1266-01

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1254 [1]	0.11	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	108		30-150				12/4/18 20:24		
Decachlorobiphenyl [2]	104		30-150				12/4/18 20:24		
Tetrachloro-m-xylene [1]	101		30-150				12/4/18 20:24		
Tetrachloro-m-xylene [2]	96.4		30-150				12/4/18 20:24		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (0-1')

Sampled: 11/29/2018 11:18

Sample ID: 18K1266-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	12/3/18	12/4/18 10:33	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (2-4')

Sampled: 11/29/2018 11:50

Sample ID: 18K1266-02

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					12/4/18 21:30	
Decachlorobiphenyl [2]		98.1	30-150					12/4/18 21:30	
Tetrachloro-m-xylene [1]		92.9	30-150					12/4/18 21:30	
Tetrachloro-m-xylene [2]		88.2	30-150					12/4/18 21:30	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (2-4')

Sampled: 11/29/2018 11:50

Sample ID: 18K1266-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BB27-SB622 (1-2')

Sampled: 11/29/2018 12:06

Sample ID: 18K1266-03

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1248 [2]	0.29	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1254 [2]	0.19	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	108		30-150				12/4/18 21:48		
Decachlorobiphenyl [2]	104		30-150				12/4/18 21:48		
Tetrachloro-m-xylene [1]	101		30-150				12/4/18 21:48		
Tetrachloro-m-xylene [2]	95.5		30-150				12/4/18 21:48		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: **BB27-SB622 (1-2')**

Sampled: 11/29/2018 12:06

Sample ID: **18K1266-03**

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB619 (1-2')

Sampled: 11/29/2018 12:30

Sample ID: 18K1266-04

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					12/4/18 22:05	
Decachlorobiphenyl [2]		99.9	30-150					12/4/18 22:05	
Tetrachloro-m-xylene [1]		99.5	30-150					12/4/18 22:05	
Tetrachloro-m-xylene [2]		93.4	30-150					12/4/18 22:05	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB619 (1-2')

Sampled: 11/29/2018 12:30

Sample ID: 18K1266-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC28-SB121 (1-2')

Sampled: 11/29/2018 12:50

Sample ID: 18K1266-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1248 [2]	0.30	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1254 [2]	0.15	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	105		30-150				12/4/18 22:23		
Decachlorobiphenyl [2]	101		30-150				12/4/18 22:23		
Tetrachloro-m-xylene [1]	102		30-150				12/4/18 22:23		
Tetrachloro-m-xylene [2]	95.4		30-150				12/4/18 22:23		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC28-SB121 (1-2')

Sampled: 11/29/2018 12:50

Sample ID: 18K1266-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 629-SB626 (1-2')

Sampled: 11/29/2018 14:00

Sample ID: 18K1266-06

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Alachlor [1]	ND	0.027	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Aldrin [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
alpha-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
beta-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
delta-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
gamma-BHC (Lindane) [2]	ND	0.0027	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Chlordane [2]	0.11	0.027	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
4,4'-DDD [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
4,4'-DDE [2]	0.019	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
4,4'-DDT [2]	0.013	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Dieldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endosulfan I [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endosulfan II [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endosulfan sulfate [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endrin [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endrin aldehyde [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endrin ketone [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Heptachlor [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Heptachlor epoxide [2]	0.010	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Hexachlorobenzene [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Methoxychlor [1]	ND	0.067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Toxaphene [1]	ND	0.13	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		67.3	30-150					12/4/18 3:23	
Decachlorobiphenyl [2]		66.9	30-150					12/4/18 3:23	
Tetrachloro-m-xylene [1]		51.7	30-150					12/4/18 3:23	
Tetrachloro-m-xylene [2]		56.5	30-150					12/4/18 3:23	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 629-SB626 (1-2')

Sampled: 11/29/2018 14:00

Sample ID: 18K1266-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.3		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 630-SB625 (0-1')

Sampled: 11/29/2018 14:10

Sample ID: 18K1266-07

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Aldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
alpha-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
beta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
delta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
gamma-BHC (Lindane) [2]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Chlordane [2]	0.036	0.024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
4,4'-DDD [2]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
4,4'-DDE [2]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
4,4'-DDT [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Dieldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endosulfan I [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endosulfan II [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endosulfan sulfate [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endrin [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endrin aldehyde [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endrin ketone [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Heptachlor [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Hexachlorobenzene [1]	ND	0.0072	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Methoxychlor [1]	ND	0.060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		65.2	30-150					12/4/18 3:50	
Decachlorobiphenyl [2]		63.4	30-150					12/4/18 3:50	
Tetrachloro-m-xylene [1]		50.4	30-150					12/4/18 3:50	
Tetrachloro-m-xylene [2]		56.1	30-150					12/4/18 3:50	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 630-SB625 (0-1')

Sampled: 11/29/2018 14:10

Sample ID: 18K1266-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	12/3/18	12/4/18 10:35	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: E31-SB264 (0-1')

Sampled: 11/29/2018 14:30

Sample ID: 18K1266-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.032	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Aldrin [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
alpha-BHC [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
beta-BHC [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
delta-BHC [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
gamma-BHC (Lindane) [2]	ND	0.0032	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Chlordane [2]	4.0	0.32	mg/Kg dry	10		SW-846 8081B	11/29/18	12/4/18 14:08	TG
4,4'-DDD [2]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
4,4'-DDE [2]	0.074	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
4,4'-DDT [2]	0.086	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Dieldrin [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endosulfan I [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endosulfan II [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endosulfan sulfate [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endrin [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endrin aldehyde [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endrin ketone [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Heptachlor [2]	0.013	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Heptachlor epoxide [1]	0.21	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Hexachlorobenzene [1]	ND	0.0097	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Methoxychlor [1]	ND	0.081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Toxaphene [1]	ND	0.16	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.9	30-150					12/4/18 4:17	
Decachlorobiphenyl [2]		76.0	30-150					12/4/18 4:17	
Tetrachloro-m-xylene [1]		54.9	30-150					12/4/18 4:17	
Tetrachloro-m-xylene [2]		60.1	30-150					12/4/18 4:17	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: E31-SB264 (0-1')

Sampled: 11/29/2018 14:30

Sample ID: 18K1266-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.1		% Wt	1		SM 2540G	12/3/18	12/4/18 10:35	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: F30-SB263 (0-1')

Sampled: 11/29/2018 14:40

Sample ID: 18K1266-09

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.030	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Aldrin [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
alpha-BHC [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
beta-BHC [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
delta-BHC [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
gamma-BHC (Lindane) [2]	ND	0.0030	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Chlordane [2]	7.8	0.60	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 14:34	TG
4,4'-DDD [2]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
4,4'-DDE [2]	0.15	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
4,4'-DDT [2]	0.19	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Dieldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endosulfan I [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endosulfan II [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endosulfan sulfate [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endrin [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endrin aldehyde [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endrin ketone [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Heptachlor [2]	0.016	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Heptachlor epoxide [1]	0.56	0.15	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 14:34	TG
Hexachlorobenzene [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Methoxychlor [1]	ND	0.075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Toxaphene [1]	ND	0.15	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.8	30-150					12/4/18 4:44	
Decachlorobiphenyl [2]		76.8	30-150					12/4/18 4:44	
Tetrachloro-m-xylene [1]		53.3	30-150					12/4/18 4:44	
Tetrachloro-m-xylene [2]		58.7	30-150					12/4/18 4:44	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: F30-SB263 (0-1')

Sampled: 11/29/2018 14:40

Sample ID: 18K1266-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.8		% Wt	1		SM 2540G	12/3/18	12/4/18 10:35	AVF

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18K1266-01 [BC27-SB620 (0-1')]	B218372	12/03/18
18K1266-02 [BC27-SB620 (2-4')]	B218372	12/03/18
18K1266-03 [BB27-SB622 (1-2')]	B218372	12/03/18
18K1266-04 [BC27-SB619 (1-2')]	B218372	12/03/18
18K1266-05 [BC28-SB121 (1-2')]	B218372	12/03/18
18K1266-06 [629-SB626 (1-2')]	B218372	12/03/18
18K1266-07 [630-SB625 (0-1')]	B218372	12/03/18
18K1266-08 [E31-SB264 (0-1')]	B218372	12/03/18
18K1266-09 [F30-SB263 (0-1')]	B218372	12/03/18

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1266-06 [629-SB626 (1-2')]	B218069	10.0	10.0	11/29/18
18K1266-07 [630-SB625 (0-1')]	B218069	10.0	10.0	11/29/18
18K1266-08 [E31-SB264 (0-1')]	B218069	10.0	10.0	11/29/18
18K1266-09 [F30-SB263 (0-1')]	B218069	10.0	10.0	11/29/18

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1266-01 [BC27-SB620 (0-1')]	B218186	10.6	10.0	11/30/18
18K1266-02 [BC27-SB620 (2-4')]	B218186	10.3	10.0	11/30/18
18K1266-03 [BB27-SB622 (1-2')]	B218186	10.7	10.0	11/30/18
18K1266-04 [BC27-SB619 (1-2')]	B218186	10.8	10.0	11/30/18
18K1266-05 [BC28-SB121 (1-2')]	B218186	10.7	10.0	11/30/18

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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
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Batch B218069 - SW-846 3546

Blank (B218069-BLK1)

Prepared: 11/29/18 Analyzed: 12/04/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		78.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.120		mg/Kg wet	0.200		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B218069 - SW-846 3546</b>										
<b>LCS (B218069-BS1)</b>										
					Prepared: 11/29/18 Analyzed: 12/04/18					
alpha-Chlordane	0.089	0.0050	mg/Kg wet	0.100		89.3	40-140			
alpha-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140			
gamma-Chlordane	0.086	0.0050	mg/Kg wet	0.100		85.9	40-140			
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		88.2	40-140			
Alachlor	0.066	0.020	mg/Kg wet	0.100		66.0	40-140			
Alachlor [2C]	0.069	0.020	mg/Kg wet	0.100		69.5	40-140			
Aldrin	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140			
Aldrin [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
alpha-BHC	0.050	0.0050	mg/Kg wet	0.100		50.2	40-140			
alpha-BHC [2C]	0.053	0.0050	mg/Kg wet	0.100		52.5	40-140			
beta-BHC	0.071	0.0050	mg/Kg wet	0.100		70.6	40-140			
beta-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		70.6	40-140			
delta-BHC	0.072	0.0050	mg/Kg wet	0.100		72.4	40-140			
delta-BHC [2C]	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140			
gamma-BHC (Lindane)	0.060	0.0020	mg/Kg wet	0.100		60.3	40-140			V-06
gamma-BHC (Lindane) [2C]	0.061	0.0020	mg/Kg wet	0.100		60.6	40-140			
4,4'-DDD	0.099	0.0040	mg/Kg wet	0.100		99.1	40-140			V-06
4,4'-DDD [2C]	0.094	0.0040	mg/Kg wet	0.100		93.7	40-140			
4,4'-DDE	0.099	0.0040	mg/Kg wet	0.100		99.4	40-140			V-06
4,4'-DDE [2C]	0.095	0.0040	mg/Kg wet	0.100		95.0	40-140			
4,4'-DDT	0.096	0.0040	mg/Kg wet	0.100		95.7	40-140			
4,4'-DDT [2C]	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140			
Dieldrin	0.089	0.0040	mg/Kg wet	0.100		89.2	40-140			
Dieldrin [2C]	0.086	0.0040	mg/Kg wet	0.100		85.7	40-140			
Endosulfan I	0.088	0.0050	mg/Kg wet	0.100		88.1	40-140			
Endosulfan I [2C]	0.086	0.0050	mg/Kg wet	0.100		86.2	40-140			
Endosulfan II	0.091	0.0080	mg/Kg wet	0.100		90.9	40-140			
Endosulfan II [2C]	0.090	0.0080	mg/Kg wet	0.100		89.8	40-140			
Endosulfan Sulfate	0.087	0.0080	mg/Kg wet	0.100		86.5	40-140			
Endosulfan Sulfate [2C]	0.088	0.0080	mg/Kg wet	0.100		87.9	40-140			
Endrin	0.092	0.0080	mg/Kg wet	0.100		91.7	40-140			
Endrin [2C]	0.090	0.0080	mg/Kg wet	0.100		89.6	40-140			
Endrin Aldehyde	0.091	0.0080	mg/Kg wet	0.100		90.9	40-140			
Endrin Aldehyde [2C]	0.089	0.0080	mg/Kg wet	0.100		88.8	40-140			
Endrin Ketone	0.094	0.0080	mg/Kg wet	0.100		93.5	40-140			
Endrin Ketone [2C]	0.091	0.0080	mg/Kg wet	0.100		91.2	40-140			
Heptachlor	0.058	0.0050	mg/Kg wet	0.100		58.0	40-140			
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		74.5	40-140			
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		83.1	40-140			
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140			
Hexachlorobenzene	0.083	0.0060	mg/Kg wet	0.100		83.0	40-140			
Hexachlorobenzene [2C]	0.086	0.0060	mg/Kg wet	0.100		86.2	40-140			
Methoxychlor	0.094	0.050	mg/Kg wet	0.100		93.7	40-140			
Methoxychlor [2C]	0.095	0.050	mg/Kg wet	0.100		95.0	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.149		mg/Kg wet	0.200		74.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159		mg/Kg wet	0.200		79.3	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
<b>Batch B218069 - SW-846 3546</b>										
<b>LCS Dup (B218069-BSD1)</b>										
					Prepared: 11/29/18 Analyzed: 12/04/18					
alpha-Chlordane	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140	0.413	30	
alpha-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		89.1	40-140	0.644	30	
gamma-Chlordane	0.085	0.0050	mg/Kg wet	0.100		84.8	40-140	1.29	30	
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		87.9	40-140	0.300	30	
Alachlor	0.063	0.020	mg/Kg wet	0.100		62.6	40-140	5.35	30	
Alachlor [2C]	0.065	0.020	mg/Kg wet	0.100		65.4	40-140	6.00	30	
Aldrin	0.079	0.0050	mg/Kg wet	0.100		79.1	40-140	5.21	30	
Aldrin [2C]	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140	3.47	30	
alpha-BHC	0.044	0.0050	mg/Kg wet	0.100		44.1	40-140	12.9	30	
alpha-BHC [2C]	0.047	0.0050	mg/Kg wet	0.100		46.8	40-140	11.5	30	
beta-BHC	0.060	0.0050	mg/Kg wet	0.100		60.2	40-140	15.8	30	
beta-BHC [2C]	0.063	0.0050	mg/Kg wet	0.100		63.1	40-140	11.2	30	
delta-BHC	0.064	0.0050	mg/Kg wet	0.100		64.1	40-140	12.2	30	
delta-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.6	40-140	10.6	30	
gamma-BHC (Lindane)	0.052	0.0020	mg/Kg wet	0.100		51.6	40-140	15.5	30	V-06
gamma-BHC (Lindane) [2C]	0.053	0.0020	mg/Kg wet	0.100		52.9	40-140	13.6	30	
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		103	40-140	3.73	30	V-06
4,4'-DDD [2C]	0.098	0.0040	mg/Kg wet	0.100		98.3	40-140	4.75	30	
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		101	40-140	2.04	30	V-06
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140	5.63	30	
4,4'-DDT	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140	6.65	30	
4,4'-DDT [2C]	0.095	0.0040	mg/Kg wet	0.100		95.0	40-140	5.72	30	
Dieldrin	0.090	0.0040	mg/Kg wet	0.100		89.6	40-140	0.372	30	
Dieldrin [2C]	0.087	0.0040	mg/Kg wet	0.100		86.9	40-140	1.38	30	
Endosulfan I	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140	0.996	30	
Endosulfan I [2C]	0.086	0.0050	mg/Kg wet	0.100		86.4	40-140	0.178	30	
Endosulfan II	0.093	0.0080	mg/Kg wet	0.100		92.7	40-140	1.96	30	
Endosulfan II [2C]	0.091	0.0080	mg/Kg wet	0.100		91.4	40-140	1.73	30	
Endosulfan Sulfate	0.090	0.0080	mg/Kg wet	0.100		90.5	40-140	4.47	30	
Endosulfan Sulfate [2C]	0.092	0.0080	mg/Kg wet	0.100		91.6	40-140	4.08	30	
Endrin	0.092	0.0080	mg/Kg wet	0.100		92.4	40-140	0.799	30	
Endrin [2C]	0.091	0.0080	mg/Kg wet	0.100		91.0	40-140	1.56	30	
Endrin Aldehyde	0.099	0.0080	mg/Kg wet	0.100		98.9	40-140	8.43	30	
Endrin Aldehyde [2C]	0.096	0.0080	mg/Kg wet	0.100		96.2	40-140	7.90	30	
Endrin Ketone	0.098	0.0080	mg/Kg wet	0.100		97.6	40-140	4.28	30	
Endrin Ketone [2C]	0.096	0.0080	mg/Kg wet	0.100		95.9	40-140	5.07	30	
Heptachlor	0.052	0.0050	mg/Kg wet	0.100		52.0	40-140	10.8	30	
Heptachlor [2C]	0.068	0.0050	mg/Kg wet	0.100		67.9	40-140	9.22	30	
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		79.8	40-140	4.07	30	
Heptachlor Epoxide [2C]	0.080	0.0050	mg/Kg wet	0.100		80.1	40-140	2.72	30	
Hexachlorobenzene	0.083	0.0060	mg/Kg wet	0.100		83.2	40-140	0.242	30	
Hexachlorobenzene [2C]	0.087	0.0060	mg/Kg wet	0.100		86.6	40-140	0.508	30	
Methoxychlor	0.098	0.050	mg/Kg wet	0.100		98.3	40-140	4.78	30	
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		101	40-140	6.43	30	
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.132		mg/Kg wet	0.200		65.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			

**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
<b>Batch B218186 - SW-846 3540C</b>										
<b>Blank (B218186-BLK1)</b>										
Prepared: 11/30/18 Analyzed: 12/04/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		82.9	30-150			
<b>LCS (B218186-BS1)</b>										
Prepared: 11/30/18 Analyzed: 12/04/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		82.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.1	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.2	40-140			
Surrogate: Decachlorobiphenyl	0.215		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.8	30-150			
<b>LCS Dup (B218186-BSD1)</b>										
Prepared: 11/30/18 Analyzed: 12/04/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.8	40-140	2.35	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.0	40-140	2.40	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.9	40-140	0.878	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.5	40-140	1.41	30	
Surrogate: Decachlorobiphenyl	0.215		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.4	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
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**Batch B218372 - % Solids**

**Duplicate (B218372-DUP4)**

**Source: 18K1266-07**

Prepared: 12/03/18 Analyzed: 12/04/18

% Solids	82.4		% Wt			83.5		1.30	20	
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## BREAKDOWN REPORT

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**Lab Sample ID:** S029989-PEM1 **Analyzed:** 12/03/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 0.67  
Endrin [1] 2.33

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 0.83  
Endrin [2] 2.86

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## BREAKDOWN REPORT

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**Lab Sample ID:** S029989-PEM2 **Analyzed:** 12/04/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 0.75  
Endrin [1] 2.21

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 1.00  
Endrin [2] 3.32

---

## BREAKDOWN REPORT

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**Lab Sample ID:** S029989-PEM3 **Analyzed:** 12/04/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 1.58  
Endrin [1] 2.22

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## BREAKDOWN REPORT

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**Lab Sample ID:** S029989-PEM3 **Analyzed:** 12/04/2018

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 2.11  
Endrin [2] 2.79

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## BREAKDOWN REPORT

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**Lab Sample ID:** S029989-PEM4 **Analyzed:** 12/04/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 1.53  
Endrin [1] 2.03

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 1.92  
Endrin [2] 2.51

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**BC27-SB620 (0-1')**

*SW-846 8082A*

Lab Sample ID: 18K1266-01 Date(s) Analyzed 12/04/2018 12/04/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.11	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BB27-SB622 (1-2')**

Lab Sample ID: 18K1266-03 Date(s) Analyzed 12/04/2018 12/04/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.29	7.1
Aroclor-1254	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.19	17.1

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BC28-SB121 (1-2')**

Lab Sample ID: 18K1266-05 Date(s) Analyzed 12/04/2018 12/04/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.28	
	2	0.000	-0.030	0.030	0.30	6.9
Aroclor-1254	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.15	14.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**629-SB626 (1-2')**

Lab Sample ID: 18K1266-06 Date(s) Analyzed 12/04/2018 12/04/2018  
 Instrument ID (1): ECD2 Instrument ID (2): ECD2  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.135	7.104	7.164	0.018	
	2	7.114	7.086	7.146	0.019	5.4
4,4'-DDT	1	7.813	7.783	7.843	0.013	
	2	7.803	7.774	7.834	0.013	0.0
Chlordane	1	0.000	-0.030	0.030	0.088	
	2	0.000	-0.030	0.030	0.11	22.2
Heptachlor Epoxide	1	6.894	6.863	6.923	0.010	
	2	6.742	6.712	6.772	0.010	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**630-SB625 (0-1')**

Lab Sample ID: 18K1266-07 Date(s) Analyzed 12/04/2018 12/04/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	0.035	
	2	0.000	-0.030	0.030	0.036	2.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**E31-SB264 (0-1')**

Lab Sample ID: 18K1266-08 Date(s) Analyzed 12/04/2018 12/04/2018  
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.134	7.104	7.164	0.074	
	2	7.114	7.086	7.146	0.074	0.0
4,4'-DDT	1	7.813	7.783	7.843	0.079	
	2	7.802	7.774	7.834	0.086	8.5
Chlordane	1	0.000	-0.030	0.030	3.7	
	2	0.000	-0.030	0.030	4.0	7.8
Heptachlor	1	6.236	6.206	6.266	0.011	
	2	6.114	6.086	6.146	0.013	16.7
Heptachlor Epoxide	1	6.894	6.863	6.923	0.21	
	2	6.741	6.712	6.772	0.15	33.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**F30-SB263 (0-1')**

Lab Sample ID: 18K1266-09 Date(s) Analyzed 12/04/2018 12/04/2018  
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.135	7.104	7.164	0.14	
	2	7.114	7.086	7.146	0.15	6.9
4,4'-DDT	1	7.812	7.783	7.843	0.18	
	2	7.803	7.774	7.834	0.19	5.4
Chlordane	1	0.000	-0.030	0.030	6.3	
	2	0.000	-0.030	0.030	7.8	21.3
Heptachlor	1	6.236	6.206	6.266	0.014	
	2	6.114	6.086	6.146	0.016	13.3
Heptachlor Epoxide	1	6.892	6.863	6.923	0.56	
	2	6.739	6.711	6.771	0.50	11.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

LCS
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Lab Sample ID:                     B218069-BS1                          Date(s) Analyzed           12/03/2018                     12/04/2018            
 Instrument ID (1):                     ECD2A                          Instrument ID (2):                     ECD2B                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.592	7.563	7.623	0.099	
	2	7.554	7.524	7.584	0.094	5.2
4,4'-DDE	1	7.133	7.105	7.165	0.099	
	2	7.112	7.083	7.143	0.095	4.1
4,4'-DDT	1	7.810	7.782	7.842	0.096	
	2	7.800	7.770	7.830	0.090	6.5
Alachlor	1	6.544	6.515	6.575	0.066	
	2	6.260	6.230	6.290	0.069	4.4
Aldrin	1	6.451	6.421	6.481	0.083	
	2	6.336	6.305	6.365	0.081	2.4
alpha-BHC	1	5.693	5.663	5.723	0.050	
	2	5.591	5.561	5.621	0.053	5.8
alpha-Chlordane	1	7.083	7.054	7.114	0.089	
	2	6.985	6.956	7.016	0.089	0.0
beta-BHC	1	5.962	5.933	5.993	0.071	
	2	5.872	5.839	5.899	0.071	0.0
delta-BHC	1	6.087	6.057	6.117	0.072	
	2	6.066	6.035	6.095	0.075	4.1
Dieldrin	1	7.370	7.341	7.401	0.089	
	2	7.231	7.201	7.261	0.086	3.4
Endosulfan I	1	7.189	7.160	7.220	0.088	
	2	7.026	6.997	7.057	0.086	2.3
Endosulfan II	1	7.723	7.695	7.755	0.091	
	2	7.624	7.595	7.655	0.090	1.1
Endosulfan Sulfate	1	8.342	8.314	8.374	0.087	
	2	8.095	8.066	8.126	0.088	1.1
Endrin	1	7.550	7.522	7.582	0.092	
	2	7.462	7.432	7.492	0.090	2.2
Endrin Aldehyde	1	8.045	8.016	8.076	0.091	
	2	7.893	7.862	7.922	0.089	2.2
Endrin Ketone	1	8.520	8.492	8.552	0.094	



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

<b>LCS Dup</b>
----------------

Lab Sample ID:                     B218069-BSD1                          Date(s) Analyzed           12/03/2018                     12/04/2018            
 Instrument ID (1):                     ECD2A                          Instrument ID (2):                     ECD2B                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.592	7.563	7.623	0.10	
	2	7.554	7.524	7.584	0.098	2.0
4,4'-DDE	1	7.133	7.105	7.165	0.10	
	2	7.112	7.083	7.143	0.10	0.0
4,4'-DDT	1	7.810	7.782	7.842	0.090	
	2	7.800	7.770	7.830	0.095	5.4
Alachlor	1	6.543	6.515	6.575	0.063	
	2	6.260	6.230	6.290	0.065	3.1
Aldrin	1	6.451	6.421	6.481	0.079	
	2	6.336	6.305	6.365	0.078	1.3
alpha-BHC	1	5.693	5.663	5.723	0.044	
	2	5.591	5.561	5.621	0.047	6.6
alpha-Chlordane	1	7.083	7.054	7.114	0.089	
	2	6.985	6.956	7.016	0.089	0.0
beta-BHC	1	5.962	5.933	5.993	0.060	
	2	5.872	5.839	5.899	0.063	4.9
delta-BHC	1	6.087	6.057	6.117	0.064	
	2	6.066	6.035	6.095	0.068	6.1
Dieldrin	1	7.370	7.341	7.401	0.090	
	2	7.231	7.201	7.261	0.087	3.4
Endosulfan I	1	7.189	7.160	7.220	0.087	
	2	7.027	6.997	7.057	0.086	1.2
Endosulfan II	1	7.724	7.695	7.755	0.093	
	2	7.625	7.595	7.655	0.091	2.2
Endosulfan Sulfate	1	8.341	8.314	8.374	0.090	
	2	8.096	8.066	8.126	0.092	1.1
Endrin	1	7.550	7.522	7.582	0.092	
	2	7.462	7.432	7.492	0.091	1.1
Endrin Aldehyde	1	8.045	8.016	8.076	0.099	
	2	7.892	7.862	7.922	0.096	3.1
Endrin Ketone	1	8.521	8.492	8.552	0.098	



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

LCS
-----

Lab Sample ID:                   B218186-BS1                                        Date(s) Analyzed           12/04/2018                     12/04/2018          

Instrument ID (1):                   ECD4                                        Instrument ID (2):                   ECD4                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

LCS Dup
---------

Lab Sample ID:                     B218186-BSD1                                          Date(s) Analyzed           12/04/2018                     12/04/2018          

Instrument ID (1):                     ECD4                                          Instrument ID (2):                     ECD4                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

---

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 8081B in Soil</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b>SW-846 8081B in Water</b>	
Alachlor	NC

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 8081B in Water</b>	
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b>SW-846 8082A in Soil</b>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test**<sup>®</sup>  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Decom

Received By LR Date 11-29-18 Time 1800

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb</u> /Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18K1266

**Laboratory Sample ID(s):**

**Sample Date(s):**

18K1266-01 thru 18K1266-09

11/29/2018

**List RCP Methods Used:**

SW-846 8081B, 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 12/06/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

December 14, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18K1266

Enclosed are results of analyses for samples received by the laboratory on November 29, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 12/14/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18K1266

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
BC27-SB620 (0-1')	18K1266-01	Soil		SM 2540G SW-846 8082A	
BC27-SB620 (2-4')	18K1266-02	Soil		SM 2540G SW-846 8082A	
BB27-SB622 (1-2')	18K1266-03	Soil		SM 2540G SW-846 8082A	
BC27-SB619 (1-2')	18K1266-04	Soil		SM 2540G SW-846 8082A	
BC28-SB121 (1-2')	18K1266-05	Soil		SM 2540G SW-846 8082A	
629-SB626 (1-2')	18K1266-06	Soil		SM 2540G SW-846 8081B	
630-SB625 (0-1')	18K1266-07	Soil		SM 2540G SW-846 8081B	
E31-SB624 (0-1)	18K1266-08	Soil		SM 2540G SW-846 8081B	
F30-SB623 (0-1)	18K1266-09	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 12/14/2018 - 18K1266-08 & -09 IDs revised per clients request.

**SW-846 8081B**

**Qualifications:**

**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

**Analyte & Samples(s) Qualified:**

**4,4'-DDD**

B218069-BS1, B218069-BSD1

**4,4'-DDE**

B218069-BS1, B218069-BSD1

**gamma-BHC (Lindane)**

B218069-BS1, B218069-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.



Meghan E. Kelley  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (0-1')

Sampled: 11/29/2018 11:18

Sample ID: 18K1266-01

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1254 [1]	0.11	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 20:24	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	108		30-150				12/4/18 20:24		
Decachlorobiphenyl [2]	104		30-150				12/4/18 20:24		
Tetrachloro-m-xylene [1]	101		30-150				12/4/18 20:24		
Tetrachloro-m-xylene [2]	96.4		30-150				12/4/18 20:24		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (0-1')

Sampled: 11/29/2018 11:18

Sample ID: 18K1266-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	12/3/18	12/4/18 10:33	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (2-4')

Sampled: 11/29/2018 11:50

Sample ID: 18K1266-02

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:30	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					12/4/18 21:30	
Decachlorobiphenyl [2]		98.1	30-150					12/4/18 21:30	
Tetrachloro-m-xylene [1]		92.9	30-150					12/4/18 21:30	
Tetrachloro-m-xylene [2]		88.2	30-150					12/4/18 21:30	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB620 (2-4')

Sampled: 11/29/2018 11:50

Sample ID: 18K1266-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BB27-SB622 (1-2')

Sampled: 11/29/2018 12:06

Sample ID: 18K1266-03

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1248 [2]	0.29	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1254 [2]	0.19	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 21:48	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	108		30-150				12/4/18 21:48		
Decachlorobiphenyl [2]	104		30-150				12/4/18 21:48		
Tetrachloro-m-xylene [1]	101		30-150				12/4/18 21:48		
Tetrachloro-m-xylene [2]	95.5		30-150				12/4/18 21:48		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: **BB27-SB622 (1-2')**

Sampled: 11/29/2018 12:06

Sample ID: **18K1266-03**

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB619 (1-2')

Sampled: 11/29/2018 12:30

Sample ID: 18K1266-04

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:05	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					12/4/18 22:05	
Decachlorobiphenyl [2]		99.9	30-150					12/4/18 22:05	
Tetrachloro-m-xylene [1]		99.5	30-150					12/4/18 22:05	
Tetrachloro-m-xylene [2]		93.4	30-150					12/4/18 22:05	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC27-SB619 (1-2')

Sampled: 11/29/2018 12:30

Sample ID: 18K1266-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC28-SB121 (1-2')

Sampled: 11/29/2018 12:50

Sample ID: 18K1266-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1248 [2]	0.30	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1254 [2]	0.15	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/30/18	12/4/18 22:23	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	105		30-150				12/4/18 22:23		
Decachlorobiphenyl [2]	101		30-150				12/4/18 22:23		
Tetrachloro-m-xylene [1]	102		30-150				12/4/18 22:23		
Tetrachloro-m-xylene [2]	95.4		30-150				12/4/18 22:23		

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: BC28-SB121 (1-2')

Sampled: 11/29/2018 12:50

Sample ID: 18K1266-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 629-SB626 (1-2')

Sampled: 11/29/2018 14:00

Sample ID: 18K1266-06

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.027	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Aldrin [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
alpha-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
beta-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
delta-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
gamma-BHC (Lindane) [2]	ND	0.0027	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Chlordane [2]	0.11	0.027	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
4,4'-DDD [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
4,4'-DDE [2]	0.019	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
4,4'-DDT [2]	0.013	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Dieldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endosulfan I [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endosulfan II [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endosulfan sulfate [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endrin [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endrin aldehyde [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Endrin ketone [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Heptachlor [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Heptachlor epoxide [2]	0.010	0.0067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Hexachlorobenzene [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Methoxychlor [1]	ND	0.067	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Toxaphene [1]	ND	0.13	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:23	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		67.3	30-150					12/4/18 3:23	
Decachlorobiphenyl [2]		66.9	30-150					12/4/18 3:23	
Tetrachloro-m-xylene [1]		51.7	30-150					12/4/18 3:23	
Tetrachloro-m-xylene [2]		56.5	30-150					12/4/18 3:23	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 629-SB626 (1-2')

Sampled: 11/29/2018 14:00

Sample ID: 18K1266-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.3		% Wt	1		SM 2540G	12/3/18	12/4/18 10:34	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 630-SB625 (0-1')

Sampled: 11/29/2018 14:10

Sample ID: 18K1266-07

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Aldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
alpha-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
beta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
delta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
gamma-BHC (Lindane) [2]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Chlordane [2]	0.036	0.024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
4,4'-DDD [2]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
4,4'-DDE [2]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
4,4'-DDT [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Dieldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endosulfan I [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endosulfan II [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endosulfan sulfate [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endrin [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endrin aldehyde [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Endrin ketone [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Heptachlor [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Hexachlorobenzene [1]	ND	0.0072	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Methoxychlor [1]	ND	0.060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 3:50	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		65.2	30-150					12/4/18 3:50	
Decachlorobiphenyl [2]		63.4	30-150					12/4/18 3:50	
Tetrachloro-m-xylene [1]		50.4	30-150					12/4/18 3:50	
Tetrachloro-m-xylene [2]		56.1	30-150					12/4/18 3:50	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: 630-SB625 (0-1')

Sampled: 11/29/2018 14:10

Sample ID: 18K1266-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	12/3/18	12/4/18 10:35	AVF

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: E31-SB624 (0-1)

Sampled: 11/29/2018 14:30

Sample ID: 18K1266-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.032	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Aldrin [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
alpha-BHC [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
beta-BHC [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
delta-BHC [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
gamma-BHC (Lindane) [2]	ND	0.0032	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Chlordane [2]	4.0	0.32	mg/Kg dry	10		SW-846 8081B	11/29/18	12/4/18 14:08	TG
4,4'-DDD [2]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
4,4'-DDE [2]	0.074	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
4,4'-DDT [2]	0.086	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Dieldrin [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endosulfan I [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endosulfan II [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endosulfan sulfate [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endrin [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endrin aldehyde [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Endrin ketone [1]	ND	0.013	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Heptachlor [2]	0.013	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Heptachlor epoxide [1]	0.21	0.0081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Hexachlorobenzene [1]	ND	0.0097	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Methoxychlor [1]	ND	0.081	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Toxaphene [1]	ND	0.16	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:17	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.9	30-150					12/4/18 4:17	
Decachlorobiphenyl [2]		76.0	30-150					12/4/18 4:17	
Tetrachloro-m-xylene [1]		54.9	30-150					12/4/18 4:17	
Tetrachloro-m-xylene [2]		60.1	30-150					12/4/18 4:17	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: E31-SB624 (0-1)

Sampled: 11/29/2018 14:30

Sample ID: 18K1266-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.1		% Wt	1		SM 2540G	12/3/18	12/4/18 10:35	AVF

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: F30-SB623 (0-1)

Sampled: 11/29/2018 14:40

Sample ID: 18K1266-09

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.030	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Aldrin [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
alpha-BHC [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
beta-BHC [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
delta-BHC [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
gamma-BHC (Lindane) [2]	ND	0.0030	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Chlordane [2]	7.8	0.60	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 14:34	TG
4,4'-DDD [2]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
4,4'-DDE [2]	0.15	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
4,4'-DDT [2]	0.19	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Dieldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endosulfan I [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endosulfan II [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endosulfan sulfate [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endrin [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endrin aldehyde [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Endrin ketone [1]	ND	0.012	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Heptachlor [2]	0.016	0.0075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Heptachlor epoxide [1]	0.56	0.15	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 14:34	TG
Hexachlorobenzene [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Methoxychlor [1]	ND	0.075	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Toxaphene [1]	ND	0.15	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 4:44	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.8	30-150					12/4/18 4:44	
Decachlorobiphenyl [2]		76.8	30-150					12/4/18 4:44	
Tetrachloro-m-xylene [1]		53.3	30-150					12/4/18 4:44	
Tetrachloro-m-xylene [2]		58.7	30-150					12/4/18 4:44	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1266

Date Received: 11/29/2018

Field Sample #: F30-SB623 (0-1)

Sampled: 11/29/2018 14:40

Sample ID: 18K1266-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.8		% Wt	1		SM 2540G	12/3/18	12/4/18 10:35	AVF

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18K1266-01 [BC27-SB620 (0-1')]	B218372	12/03/18
18K1266-02 [BC27-SB620 (2-4')]	B218372	12/03/18
18K1266-03 [BB27-SB622 (1-2')]	B218372	12/03/18
18K1266-04 [BC27-SB619 (1-2')]	B218372	12/03/18
18K1266-05 [BC28-SB121 (1-2')]	B218372	12/03/18
18K1266-06 [629-SB626 (1-2')]	B218372	12/03/18
18K1266-07 [630-SB625 (0-1')]	B218372	12/03/18
18K1266-08 [E31-SB624 (0-1)]	B218372	12/03/18
18K1266-09 [F30-SB623 (0-1)]	B218372	12/03/18

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1266-06 [629-SB626 (1-2')]	B218069	10.0	10.0	11/29/18
18K1266-07 [630-SB625 (0-1')]	B218069	10.0	10.0	11/29/18
18K1266-08 [E31-SB624 (0-1)]	B218069	10.0	10.0	11/29/18
18K1266-09 [F30-SB623 (0-1)]	B218069	10.0	10.0	11/29/18

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1266-01 [BC27-SB620 (0-1')]	B218186	10.6	10.0	11/30/18
18K1266-02 [BC27-SB620 (2-4')]	B218186	10.3	10.0	11/30/18
18K1266-03 [BB27-SB622 (1-2')]	B218186	10.7	10.0	11/30/18
18K1266-04 [BC27-SB619 (1-2')]	B218186	10.8	10.0	11/30/18
18K1266-05 [BC28-SB121 (1-2')]	B218186	10.7	10.0	11/30/18

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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
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Batch B218069 - SW-846 3546

Blank (B218069-BLK1)

Prepared: 11/29/18 Analyzed: 12/04/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		78.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.120		mg/Kg wet	0.200		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B218069 - SW-846 3546</b>										
<b>LCS (B218069-BS1)</b>										
					Prepared: 11/29/18 Analyzed: 12/04/18					
alpha-Chlordane	0.089	0.0050	mg/Kg wet	0.100		89.3	40-140			
alpha-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140			
gamma-Chlordane	0.086	0.0050	mg/Kg wet	0.100		85.9	40-140			
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		88.2	40-140			
Alachlor	0.066	0.020	mg/Kg wet	0.100		66.0	40-140			
Alachlor [2C]	0.069	0.020	mg/Kg wet	0.100		69.5	40-140			
Aldrin	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140			
Aldrin [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
alpha-BHC	0.050	0.0050	mg/Kg wet	0.100		50.2	40-140			
alpha-BHC [2C]	0.053	0.0050	mg/Kg wet	0.100		52.5	40-140			
beta-BHC	0.071	0.0050	mg/Kg wet	0.100		70.6	40-140			
beta-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		70.6	40-140			
delta-BHC	0.072	0.0050	mg/Kg wet	0.100		72.4	40-140			
delta-BHC [2C]	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140			
gamma-BHC (Lindane)	0.060	0.0020	mg/Kg wet	0.100		60.3	40-140			V-06
gamma-BHC (Lindane) [2C]	0.061	0.0020	mg/Kg wet	0.100		60.6	40-140			
4,4'-DDD	0.099	0.0040	mg/Kg wet	0.100		99.1	40-140			V-06
4,4'-DDD [2C]	0.094	0.0040	mg/Kg wet	0.100		93.7	40-140			
4,4'-DDE	0.099	0.0040	mg/Kg wet	0.100		99.4	40-140			V-06
4,4'-DDE [2C]	0.095	0.0040	mg/Kg wet	0.100		95.0	40-140			
4,4'-DDT	0.096	0.0040	mg/Kg wet	0.100		95.7	40-140			
4,4'-DDT [2C]	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140			
Dieldrin	0.089	0.0040	mg/Kg wet	0.100		89.2	40-140			
Dieldrin [2C]	0.086	0.0040	mg/Kg wet	0.100		85.7	40-140			
Endosulfan I	0.088	0.0050	mg/Kg wet	0.100		88.1	40-140			
Endosulfan I [2C]	0.086	0.0050	mg/Kg wet	0.100		86.2	40-140			
Endosulfan II	0.091	0.0080	mg/Kg wet	0.100		90.9	40-140			
Endosulfan II [2C]	0.090	0.0080	mg/Kg wet	0.100		89.8	40-140			
Endosulfan Sulfate	0.087	0.0080	mg/Kg wet	0.100		86.5	40-140			
Endosulfan Sulfate [2C]	0.088	0.0080	mg/Kg wet	0.100		87.9	40-140			
Endrin	0.092	0.0080	mg/Kg wet	0.100		91.7	40-140			
Endrin [2C]	0.090	0.0080	mg/Kg wet	0.100		89.6	40-140			
Endrin Aldehyde	0.091	0.0080	mg/Kg wet	0.100		90.9	40-140			
Endrin Aldehyde [2C]	0.089	0.0080	mg/Kg wet	0.100		88.8	40-140			
Endrin Ketone	0.094	0.0080	mg/Kg wet	0.100		93.5	40-140			
Endrin Ketone [2C]	0.091	0.0080	mg/Kg wet	0.100		91.2	40-140			
Heptachlor	0.058	0.0050	mg/Kg wet	0.100		58.0	40-140			
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		74.5	40-140			
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		83.1	40-140			
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140			
Hexachlorobenzene	0.083	0.0060	mg/Kg wet	0.100		83.0	40-140			
Hexachlorobenzene [2C]	0.086	0.0060	mg/Kg wet	0.100		86.2	40-140			
Methoxychlor	0.094	0.050	mg/Kg wet	0.100		93.7	40-140			
Methoxychlor [2C]	0.095	0.050	mg/Kg wet	0.100		95.0	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.149		mg/Kg wet	0.200		74.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159		mg/Kg wet	0.200		79.3	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
<b>Batch B218069 - SW-846 3546</b>										
<b>LCS Dup (B218069-BSD1)</b>										
					Prepared: 11/29/18 Analyzed: 12/04/18					
alpha-Chlordane	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140	0.413	30	
alpha-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		89.1	40-140	0.644	30	
gamma-Chlordane	0.085	0.0050	mg/Kg wet	0.100		84.8	40-140	1.29	30	
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		87.9	40-140	0.300	30	
Alachlor	0.063	0.020	mg/Kg wet	0.100		62.6	40-140	5.35	30	
Alachlor [2C]	0.065	0.020	mg/Kg wet	0.100		65.4	40-140	6.00	30	
Aldrin	0.079	0.0050	mg/Kg wet	0.100		79.1	40-140	5.21	30	
Aldrin [2C]	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140	3.47	30	
alpha-BHC	0.044	0.0050	mg/Kg wet	0.100		44.1	40-140	12.9	30	
alpha-BHC [2C]	0.047	0.0050	mg/Kg wet	0.100		46.8	40-140	11.5	30	
beta-BHC	0.060	0.0050	mg/Kg wet	0.100		60.2	40-140	15.8	30	
beta-BHC [2C]	0.063	0.0050	mg/Kg wet	0.100		63.1	40-140	11.2	30	
delta-BHC	0.064	0.0050	mg/Kg wet	0.100		64.1	40-140	12.2	30	
delta-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.6	40-140	10.6	30	
gamma-BHC (Lindane)	0.052	0.0020	mg/Kg wet	0.100		51.6	40-140	15.5	30	V-06
gamma-BHC (Lindane) [2C]	0.053	0.0020	mg/Kg wet	0.100		52.9	40-140	13.6	30	
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		103	40-140	3.73	30	V-06
4,4'-DDD [2C]	0.098	0.0040	mg/Kg wet	0.100		98.3	40-140	4.75	30	
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		101	40-140	2.04	30	V-06
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140	5.63	30	
4,4'-DDT	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140	6.65	30	
4,4'-DDT [2C]	0.095	0.0040	mg/Kg wet	0.100		95.0	40-140	5.72	30	
Dieldrin	0.090	0.0040	mg/Kg wet	0.100		89.6	40-140	0.372	30	
Dieldrin [2C]	0.087	0.0040	mg/Kg wet	0.100		86.9	40-140	1.38	30	
Endosulfan I	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140	0.996	30	
Endosulfan I [2C]	0.086	0.0050	mg/Kg wet	0.100		86.4	40-140	0.178	30	
Endosulfan II	0.093	0.0080	mg/Kg wet	0.100		92.7	40-140	1.96	30	
Endosulfan II [2C]	0.091	0.0080	mg/Kg wet	0.100		91.4	40-140	1.73	30	
Endosulfan Sulfate	0.090	0.0080	mg/Kg wet	0.100		90.5	40-140	4.47	30	
Endosulfan Sulfate [2C]	0.092	0.0080	mg/Kg wet	0.100		91.6	40-140	4.08	30	
Endrin	0.092	0.0080	mg/Kg wet	0.100		92.4	40-140	0.799	30	
Endrin [2C]	0.091	0.0080	mg/Kg wet	0.100		91.0	40-140	1.56	30	
Endrin Aldehyde	0.099	0.0080	mg/Kg wet	0.100		98.9	40-140	8.43	30	
Endrin Aldehyde [2C]	0.096	0.0080	mg/Kg wet	0.100		96.2	40-140	7.90	30	
Endrin Ketone	0.098	0.0080	mg/Kg wet	0.100		97.6	40-140	4.28	30	
Endrin Ketone [2C]	0.096	0.0080	mg/Kg wet	0.100		95.9	40-140	5.07	30	
Heptachlor	0.052	0.0050	mg/Kg wet	0.100		52.0	40-140	10.8	30	
Heptachlor [2C]	0.068	0.0050	mg/Kg wet	0.100		67.9	40-140	9.22	30	
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		79.8	40-140	4.07	30	
Heptachlor Epoxide [2C]	0.080	0.0050	mg/Kg wet	0.100		80.1	40-140	2.72	30	
Hexachlorobenzene	0.083	0.0060	mg/Kg wet	0.100		83.2	40-140	0.242	30	
Hexachlorobenzene [2C]	0.087	0.0060	mg/Kg wet	0.100		86.6	40-140	0.508	30	
Methoxychlor	0.098	0.050	mg/Kg wet	0.100		98.3	40-140	4.78	30	
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		101	40-140	6.43	30	
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.132		mg/Kg wet	0.200		65.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B218186 - SW-846 3540C</b>										
<b>Blank (B218186-BLK1)</b>										
Prepared: 11/30/18 Analyzed: 12/04/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		82.9	30-150			
<b>LCS (B218186-BS1)</b>										
Prepared: 11/30/18 Analyzed: 12/04/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		82.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.1	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.2	40-140			
Surrogate: Decachlorobiphenyl	0.215		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.8	30-150			
<b>LCS Dup (B218186-BSD1)</b>										
Prepared: 11/30/18 Analyzed: 12/04/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.8	40-140	2.35	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.0	40-140	2.40	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.9	40-140	0.878	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.5	40-140	1.41	30	
Surrogate: Decachlorobiphenyl	0.215		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.4	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
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**Batch B218372 - % Solids**

**Duplicate (B218372-DUP4)**

**Source: 18K1266-07**

Prepared: 12/03/18 Analyzed: 12/04/18

% Solids	82.4		% Wt			83.5		1.30	20	
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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**BC27-SB620 (0-1')**

*SW-846 8082A*

Lab Sample ID: 18K1266-01 Date(s) Analyzed: 12/04/2018 12/04/2018

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1): ID: \_\_\_\_\_ (mm) GC Column (2): ID: \_\_\_\_\_ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.11	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BB27-SB622 (1-2')**

Lab Sample ID: 18K1266-03 Date(s) Analyzed: 12/04/2018 12/04/2018

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.29	7.1
Aroclor-1254	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.19	17.1

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8082A*

**BC28-SB121 (1-2')**

Lab Sample ID: 18K1266-05 Date(s) Analyzed: 12/04/2018 12/04/2018

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.28	
	2	0.000	-0.030	0.030	0.30	6.9
Aroclor-1254	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.15	14.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**629-SB626 (1-2')**

Lab Sample ID: 18K1266-06 Date(s) Analyzed: 12/04/2018 12/04/2018

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.135	-0.030	0.030	0.018	
	2	7.114	-0.030	0.030	0.019	5.4
4,4'-DDT	1	7.813	-0.030	0.030	0.013	
	2	7.803	-0.030	0.030	0.013	0.0
Chlordane	1	0.000	-0.030	0.030	0.088	
	2	0.000	-0.030	0.030	0.11	22.2
Heptachlor Epoxide	1	6.894	-0.030	0.030	0.010	
	2	6.742	-0.030	0.030	0.010	0.0

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**630-SB625 (0-1')**

*SW-846 8081B*

Lab Sample ID: 18K1266-07 Date(s) Analyzed: 12/04/2018 12/04/2018

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	0.035	
	2	0.000	-0.030	0.030	0.036	2.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**E31-SB264 (0-1')**

Lab Sample ID: 18K1266-08 Date(s) Analyzed: 12/04/2018 12/04/2018

Instrument ID (1): A Instrument ID (2): B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.134	-0.030	0.030	0.074	
	2	7.114	-0.030	0.030	0.074	0.0
4,4'-DDT	1	7.813	-0.030	0.030	0.079	
	2	7.802	-0.030	0.030	0.086	8.5
Chlordane	1	0.000	-0.030	0.030	3.7	
	2	0.000	-0.030	0.030	4.0	7.8
Heptachlor	1	6.236	-0.030	0.030	0.011	
	2	6.114	-0.030	0.030	0.013	16.7
Heptachlor Epoxide	1	6.894	-0.030	0.030	0.21	
	2	6.741	-0.030	0.030	0.15	33.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**F30-SB263 (0-1')**

Lab Sample ID: 18K1266-09 Date(s) Analyzed: 12/04/2018 12/04/2018  
 Instrument ID (1): A Instrument ID (2): B  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.135	-0.030	0.030	0.14	
	2	7.114	-0.030	0.030	0.15	6.9
4,4'-DDT	1	7.812	-0.030	0.030	0.18	
	2	7.803	-0.030	0.030	0.19	5.4
Chlordane	1	0.000	-0.030	0.030	6.3	
	2	0.000	-0.030	0.030	7.8	21.3
Heptachlor	1	6.236	-0.030	0.030	0.014	
	2	6.114	-0.030	0.030	0.016	13.3
Heptachlor Epoxide	1	6.892	-0.030	0.030	0.56	
	2	6.739	-0.030	0.030	0.50	11.3

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 8081B in Soil</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b>SW-846 8082A in Soil</b>	
Aroclor-1016	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Address: Rocky Hill, CT  
Phone: GREENWICH H.S.  
Project Location: GREENWICH CT  
Project Number: 60432356  
Project Manager: PARRILL HASKELL  
Con-Test Quote Name/Number: -  
Invoice Recipient: PARRILL HASKELL  
Sampled By: JOHN CRUSO

Requested Turnaround Time  
7-Day  10-Day   
Due Date: 5/20/18

Sub-Approval Required  
1-Day  3-Day   
2-Day  4-Day

Data Transfer  
Format: PDF  EXCEL   
Other:

CLP Like Data Pkg Required:   
Email To:   
Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	BC27-SB620 (0-1)	11/20/17	11:15	✓	✓	S	0
2	BC27-SB620 (2-4)		11:50	✓		S	0
3	BB27-SB622 (1-2)		12:00	✓		S	0
4	BC27-SB619 (1-2)		12:30	✓		S	0
5	BC28-SB621 (1-2)		12:50	✓		S	0
6	629-SB626 (1-2)		14:00	✓		S	0
7	630-SB625 (0-1)		14:10	✓		S	0
8	AF31-SB627 (0-1)		14:18	✓		S	0
9	E31-SB264 (0-1)		14:30	✓		S	0
	P30-SB263 (0-1)		14:40	✓		S	0

Comments: (X) HOLD UNTIL FURTHER INSTRUCTIONS.  
"MANUAL SOXHLET ANALYSIS"

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) [Signature] Date/Time: 11/20/17  
Received by: (signature) [Signature] Date/Time: 11/27/17 15:01  
Relinquished by: (signature) [Signature] Date/Time: 11/27/17 15:00  
Received by: (signature) [Signature] Date/Time: 11-29-18 1800  
Relinquished by: (signature) [Signature] Date/Time: 11-29-18  
Received by: (signature) [Signature] Date/Time: 40

Special Requirements  
MA MCP Required   
MCP Certification Form Required   
CT RCP Required   
RCP Certification Form Required   
MA State DW Required   
PWSID #

Project Entity  
Government  Municipality  MMWA  WRTA  Other   
Federal  21 J  School  AIHA-LAP, LLC   
City  Brownfield  MBTA  MBTA  MBTA



# of Containers	Preservation Code	Container Code	Analysis Requested
			Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>
			Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>

Matrix Codes:  
GW = Ground Water  
WW = Waste Water  
DW = Drinking Water  
A = Air  
S = Soil  
SL = Sludge  
SOL = Solid  
O = Other (please define)

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)

Container Codes:  
A = Amber Glass  
G = Glass  
P = Plastic  
ST = Sterile  
V = Vial  
S = Summa Canister  
T = Tedlar Bag  
O = Other (please define)

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



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ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Decom

Received By LR Date 11-29-18 Time 1800

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb</u> /Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18K1266

**Laboratory Sample ID(s):**

**Sample Date(s):**

18K1266-01 thru 18K1266-09

11/29/2018

**List RCP Methods Used:**

SW-846 8081B, 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 12/06/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

December 20, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18K1267

Enclosed are results of analyses for samples received by the laboratory on November 29, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067  
ATTN: Matthew Rood

REPORT DATE: 12/20/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 18K1267

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
F31-SB627 (0-1')	18K1267-01	Soil		SM 2540G SW-846 8081B	

**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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1267

Date Received: 11/29/2018

Field Sample #: F31-SB627 (0-1')

Sampled: 11/29/2018 00:00

Sample ID: 18K1267-01

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Endosulfan II [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Endosulfan sulfate [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Endrin [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Endrin aldehyde [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Endrin ketone [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	12/13/18	12/15/18 7:14	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		69.7	30-150					12/15/18 7:14	
Decachlorobiphenyl [2]		67.0	30-150					12/15/18 7:14	
Tetrachloro-m-xylene [1]		69.1	30-150					12/15/18 7:14	
Tetrachloro-m-xylene [2]		63.5	30-150					12/15/18 7:14	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18K1267

Date Received: 11/29/2018

Field Sample #: F31-SB627 (0-1')

Sampled: 11/29/2018 00:00

Sample ID: 18K1267-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.5		% Wt	1		SM 2540G	12/14/18	12/15/18 8:13	AVF

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### Sample Extraction Data

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18K1267-01 [F31-SB627 (0-1')]	B219226	12/14/18

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1267-01 [F31-SB627 (0-1')]	B219200	10.5	10.0	12/13/18

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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
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Batch B219200 - SW-846 3546

Blank (B219200-BLK1)

Prepared: 12/13/18 Analyzed: 12/14/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		77.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg wet	0.200		80.4	30-150			

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
<b>Batch B219200 - SW-846 3546</b>										
<b>LCS (B219200-BS1)</b>										
					Prepared: 12/13/18 Analyzed: 12/14/18					
alpha-Chlordane	0.093	0.0050	mg/Kg wet	0.100		92.9	40-140			
alpha-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.100		92.8	40-140			
gamma-Chlordane	0.089	0.0050	mg/Kg wet	0.100		88.9	40-140			
gamma-Chlordane [2C]	0.097	0.0050	mg/Kg wet	0.100		97.3	40-140			
Alachlor	0.10	0.020	mg/Kg wet	0.100		103	40-140			
Alachlor [2C]	0.091	0.020	mg/Kg wet	0.100		91.5	40-140			
Aldrin	0.096	0.0050	mg/Kg wet	0.100		96.4	40-140			
Aldrin [2C]	0.094	0.0050	mg/Kg wet	0.100		94.0	40-140			
alpha-BHC	0.088	0.0050	mg/Kg wet	0.100		88.2	40-140			
alpha-BHC [2C]	0.089	0.0050	mg/Kg wet	0.100		88.8	40-140			
beta-BHC	0.097	0.0050	mg/Kg wet	0.100		96.7	40-140			
beta-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		75.7	40-140			
delta-BHC	0.097	0.0050	mg/Kg wet	0.100		97.0	40-140			
delta-BHC [2C]	0.090	0.0050	mg/Kg wet	0.100		89.5	40-140			
gamma-BHC (Lindane)	0.094	0.0020	mg/Kg wet	0.100		94.0	40-140			
gamma-BHC (Lindane) [2C]	0.092	0.0020	mg/Kg wet	0.100		91.9	40-140			
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140			
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDE [2C]	0.099	0.0040	mg/Kg wet	0.100		99.4	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
4,4'-DDT [2C]	0.096	0.0040	mg/Kg wet	0.100		96.3	40-140			
Dieldrin	0.096	0.0040	mg/Kg wet	0.100		96.5	40-140			
Dieldrin [2C]	0.095	0.0040	mg/Kg wet	0.100		95.5	40-140			
Endosulfan I	0.096	0.0050	mg/Kg wet	0.100		96.0	40-140			
Endosulfan I [2C]	0.10	0.0050	mg/Kg wet	0.100		99.9	40-140			
Endosulfan II	0.098	0.0080	mg/Kg wet	0.100		98.4	40-140			
Endosulfan II [2C]	0.098	0.0080	mg/Kg wet	0.100		97.6	40-140			
Endosulfan Sulfate	0.093	0.0080	mg/Kg wet	0.100		93.3	40-140			
Endosulfan Sulfate [2C]	0.095	0.0080	mg/Kg wet	0.100		94.9	40-140			
Endrin	0.097	0.0080	mg/Kg wet	0.100		96.9	40-140			
Endrin [2C]	0.096	0.0080	mg/Kg wet	0.100		96.1	40-140			
Endrin Aldehyde	0.088	0.0080	mg/Kg wet	0.100		87.9	40-140			
Endrin Aldehyde [2C]	0.095	0.0080	mg/Kg wet	0.100		95.0	40-140			
Endrin Ketone	0.10	0.0080	mg/Kg wet	0.100		102	40-140			
Endrin Ketone [2C]	0.097	0.0080	mg/Kg wet	0.100		96.6	40-140			
Heptachlor	0.095	0.0050	mg/Kg wet	0.100		94.8	40-140			
Heptachlor [2C]	0.098	0.0050	mg/Kg wet	0.100		98.0	40-140			
Heptachlor Epoxide	0.095	0.0050	mg/Kg wet	0.100		95.2	40-140			
Heptachlor Epoxide [2C]	0.092	0.0050	mg/Kg wet	0.100		91.7	40-140			
Hexachlorobenzene	0.095	0.0060	mg/Kg wet	0.100		95.0	40-140			
Hexachlorobenzene [2C]	0.091	0.0060	mg/Kg wet	0.100		91.1	40-140			
Methoxychlor	0.097	0.050	mg/Kg wet	0.100		97.2	40-140			
Methoxychlor [2C]	0.099	0.050	mg/Kg wet	0.100		98.6	40-140			
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.171		mg/Kg wet	0.200		85.7	30-150			

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
<b>Batch B219200 - SW-846 3546</b>										
<b>LCS Dup (B219200-BSD1)</b>										
					Prepared: 12/13/18 Analyzed: 12/14/18					
alpha-Chlordane	0.086	0.0050	mg/Kg wet	0.100		86.3	40-140	7.42	30	
alpha-Chlordane [2C]	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140	6.06	30	
gamma-Chlordane	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140	7.77	30	
gamma-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.100		92.6	40-140	5.00	30	
Alachlor	0.097	0.020	mg/Kg wet	0.100		96.7	40-140	6.51	30	
Alachlor [2C]	0.088	0.020	mg/Kg wet	0.100		87.6	40-140	4.39	30	
Aldrin	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140	7.95	30	
Aldrin [2C]	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140	5.50	30	
alpha-BHC	0.079	0.0050	mg/Kg wet	0.100		79.5	40-140	10.4	30	
alpha-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		80.2	40-140	10.2	30	
beta-BHC	0.089	0.0050	mg/Kg wet	0.100		88.8	40-140	8.55	30	
beta-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		72.9	40-140	3.75	30	
delta-BHC	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140	10.6	30	
delta-BHC [2C]	0.084	0.0050	mg/Kg wet	0.100		84.0	40-140	6.33	30	
gamma-BHC (Lindane)	0.085	0.0020	mg/Kg wet	0.100		85.1	40-140	10.0	30	
gamma-BHC (Lindane) [2C]	0.085	0.0020	mg/Kg wet	0.100		85.3	40-140	7.41	30	
4,4'-DDD	0.094	0.0040	mg/Kg wet	0.100		94.5	40-140	6.23	30	
4,4'-DDD [2C]	0.095	0.0040	mg/Kg wet	0.100		94.7	40-140	5.51	30	
4,4'-DDE	0.094	0.0040	mg/Kg wet	0.100		93.6	40-140	7.09	30	
4,4'-DDE [2C]	0.094	0.0040	mg/Kg wet	0.100		93.7	40-140	5.89	30	
4,4'-DDT	0.096	0.0040	mg/Kg wet	0.100		95.8	40-140	5.83	30	
4,4'-DDT [2C]	0.091	0.0040	mg/Kg wet	0.100		91.3	40-140	5.32	30	
Dieldrin	0.090	0.0040	mg/Kg wet	0.100		89.8	40-140	7.13	30	
Dieldrin [2C]	0.090	0.0040	mg/Kg wet	0.100		90.0	40-140	5.95	30	
Endosulfan I	0.089	0.0050	mg/Kg wet	0.100		89.3	40-140	7.25	30	
Endosulfan I [2C]	0.096	0.0050	mg/Kg wet	0.100		95.6	40-140	4.43	30	
Endosulfan II	0.092	0.0080	mg/Kg wet	0.100		91.8	40-140	6.91	30	
Endosulfan II [2C]	0.092	0.0080	mg/Kg wet	0.100		91.8	40-140	6.13	30	
Endosulfan Sulfate	0.087	0.0080	mg/Kg wet	0.100		87.2	40-140	6.77	30	
Endosulfan Sulfate [2C]	0.090	0.0080	mg/Kg wet	0.100		90.1	40-140	5.16	30	
Endrin	0.091	0.0080	mg/Kg wet	0.100		90.6	40-140	6.79	30	
Endrin [2C]	0.091	0.0080	mg/Kg wet	0.100		91.1	40-140	5.33	30	
Endrin Aldehyde	0.085	0.0080	mg/Kg wet	0.100		84.6	40-140	3.83	30	
Endrin Aldehyde [2C]	0.089	0.0080	mg/Kg wet	0.100		89.4	40-140	6.08	30	
Endrin Ketone	0.096	0.0080	mg/Kg wet	0.100		96.2	40-140	6.36	30	
Endrin Ketone [2C]	0.092	0.0080	mg/Kg wet	0.100		92.0	40-140	4.84	30	
Heptachlor	0.087	0.0050	mg/Kg wet	0.100		87.1	40-140	8.43	30	
Heptachlor [2C]	0.093	0.0050	mg/Kg wet	0.100		93.0	40-140	5.25	30	
Heptachlor Epoxide	0.088	0.0050	mg/Kg wet	0.100		88.3	40-140	7.57	30	
Heptachlor Epoxide [2C]	0.087	0.0050	mg/Kg wet	0.100		86.8	40-140	5.59	30	
Hexachlorobenzene	0.087	0.0060	mg/Kg wet	0.100		87.1	40-140	8.72	30	
Hexachlorobenzene [2C]	0.085	0.0060	mg/Kg wet	0.100		85.2	40-140	6.72	30	
Methoxychlor	0.091	0.050	mg/Kg wet	0.100		90.8	40-140	6.73	30	
Methoxychlor [2C]	0.094	0.050	mg/Kg wet	0.100		94.2	40-140	4.56	30	
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg wet	0.200		78.8	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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K 1267

Phone: 413-525-2332  
Fax: 413-525-6405

Requested Turnaround Time  
Rush-Approval Required

Due Date: 5/20/18

39 Spruce Street  
East Longmeadow, MA 01028

Company Name: ALB

Address: Rocky Hill, CT

Project Name: GREENWICH H.S.

Project Location: GREENWICH CT

Project Number: 60432356

Project Manager: MARCEL HASEL

Con-Test Quote Name/Number: MARCEL HASEL

Invoice Recipient: JOHN CRUSSO

Sampled By: JOHN CRUSSO

Con-Test Work Order #

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Comments

Matrix Code

Pres. Code

Analysis Requested

PCBS

18K 1267

Phone: 413-525-2332  
Fax: 413-525-6405

Email: info@contestlabs.com  
AECOM Corp.

Address: Rocky Hill, CT

Project Name: GREENWICH H.S.

Project Location: GREENWICH CT

Project Number: 60432356

Project Manager: MARCEL HASEL

Con-Test Quote Name/Number: MARCEL HASEL

Invoice Recipient: JOHN CRUSSO

Sampled By: JOHN CRUSSO

Con-Test Work Order #

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Comments

Matrix Code

Pres. Code

Analysis Requested

PCBS

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test**<sup>®</sup>  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Decom

Received By LR Date 11-29-18 Time 1800

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T  
Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
Are there Rushes? F Who was notified? \_\_\_\_\_  
Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F  
Proper Media/Containers Used? T Is splitting samples required? F  
Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

**Aaron Benoit**

---

**From:** Haskell, Patrick  
**Sent:** Thursday, December 13, 2018 2:00 PM  
**To:** Aaron L. Benoit (aaron.benoit@contestlabs.com) (aaron.benoit@contestlabs.com)  
**Cc:** Rood, Matthew  
**Subject:** 18K1266

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Reactivation

Hi Aaron,

Can you run a couple additional analyses on samples from lab deliverable 18K1266?

Please run the following sample for SPLP pesticides:

18K1266-06 G29-SB626 (0-1) [The lab mistakenly transcribed the ID as 629-SB626 (0-1).]

And please run the following previously held sample for chlorinated pesticides:

F31-SB627 (0-1)

Thanks,

**Patrick Haskell, LEP, CHMM**

Technical Leader

D 401.854.2808 M 978.866.9078

[patrick.haskell@aecom.com](mailto:patrick.haskell@aecom.com)

**AECOM**

10 Orms Street, Suite 400

Providence, RI 02904

T 401.274.5685 F 401.521.2730

[www.aecom.com](http://www.aecom.com)



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18K1267

**Laboratory Sample ID(s):**

**Sample Date(s):**

18K1267-01

11/29/2018

*List RCP Methods Used:*

SW-846 8081B

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 12/20/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

December 21, 2018

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18L0654

Enclosed are results of analyses for samples received by the laboratory on December 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit  
Project Manager

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AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 12/21/2018

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18L0654

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
629-SB626 (1-2')	18L0654-01	Soil		SM 2540G SW-846 8081B	
E31-SB624 (0-1)	18L0654-02	Soil		SM 2540G SW-846 8081B	
F30-SB623 (0-1)	18L0654-03	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8081B****Qualifications:****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.

**Analyte & Samples(s) Qualified:****Endosulfan I**

B219617-MS1

**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

**Analyte & Samples(s) Qualified:****4,4'-DDE**

B219513-BS1, B219513-BSD1

**Aldrin**

B219513-BS1, B219513-BSD1

**alpha-BHC**

B219513-BS1, B219513-BSD1

**gamma-BHC (Lindane)**

B219513-BS1, B219513-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.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18L0654

Date Received: 12/13/2018

Field Sample #: 629-SB626 (1-2')

Sampled: 11/29/2018 14:00

Sample ID: 18L0654-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.3		% Wt	1		SM 2540G	12/17/18	12/17/18 0:00	CJT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L0654

Date Received: 12/13/2018

Field Sample #: 629-SB626 (1-2')

Sampled: 11/29/2018 14:00

Sample ID: 18L0654-01

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.20	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Aldrin [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
alpha-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
beta-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
delta-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Chlordane [2]	ND	0.20	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
4,4'-DDD [2]	ND	0.040	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
4,4'-DDE [2]	ND	0.040	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
4,4'-DDT [2]	ND	0.040	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Dieldrin [2]	ND	0.0020	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Endosulfan I [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Endosulfan II [2]	ND	0.080	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Endosulfan sulfate [2]	ND	0.080	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Endrin [2]	ND	0.080	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Endrin aldehyde [2]	ND	0.080	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Endrin ketone [2]	ND	0.080	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Heptachlor [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Heptachlor epoxide [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Hexachlorobenzene [2]	ND	0.050	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Methoxychlor [2]	ND	0.50	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Toxaphene [2]	ND	1.0	µg/L	1		SW-846 8081B	12/18/18	12/21/18 1:56	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		60.2	30-150					12/21/18 1:56	
Decachlorobiphenyl [2]		57.7	30-150					12/21/18 1:56	
Tetrachloro-m-xylene [1]		69.5	30-150					12/21/18 1:56	
Tetrachloro-m-xylene [2]		65.4	30-150					12/21/18 1:56	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L0654

Date Received: 12/13/2018

Field Sample #: E31-SB624 (0-1)

Sampled: 11/29/2018 14:30

Sample ID: 18L0654-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.1		% Wt	1		SM 2540G	12/17/18	12/17/18 0:00	CJT

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18L0654

Date Received: 12/13/2018

Field Sample #: E31-SB624 (0-1)

Sampled: 11/29/2018 14:30

Sample ID: 18L0654-02

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Alachlor [2]	ND	0.20	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Aldrin [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
alpha-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
beta-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
delta-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Chlordane [2]	1.7	0.20	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
4,4'-DDD [2]	ND	0.040	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
4,4'-DDE [2]	ND	0.040	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
4,4'-DDT [2]	ND	0.040	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Dieldrin [2]	ND	0.0020	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Endosulfan I [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Endosulfan II [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Endosulfan sulfate [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Endrin [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Endrin aldehyde [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Endrin ketone [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Heptachlor [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Heptachlor epoxide [1]	0.16	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Hexachlorobenzene [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Methoxychlor [2]	ND	0.50	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Toxaphene [2]	ND	1.0	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:23	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.6	30-150				12/21/18	2:23	
Decachlorobiphenyl [2]		81.3	30-150				12/21/18	2:23	
Tetrachloro-m-xylene [1]		85.7	30-150				12/21/18	2:23	
Tetrachloro-m-xylene [2]		79.8	30-150				12/21/18	2:23	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L0654

Date Received: 12/13/2018

Field Sample #: F30-SB623 (0-1)

Sampled: 11/29/2018 14:00

Sample ID: 18L0654-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.8		% Wt	1		SM 2540G	12/17/18	12/17/18 0:00	CJT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L0654

Date Received: 12/13/2018

Field Sample #: F30-SB623 (0-1)

Sampled: 11/29/2018 14:00

Sample ID: 18L0654-03

Sample Matrix: Soil

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.20	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Aldrin [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
alpha-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
beta-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
delta-BHC [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
gamma-BHC (Lindane) [2]	ND	0.030	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Chlordane [1]	3.1	0.20	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
4,4'-DDD [2]	ND	0.040	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
4,4'-DDE [2]	ND	0.040	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
4,4'-DDT [2]	0.058	0.040	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Dieldrin [2]	ND	0.0020	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Endosulfan I [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Endosulfan II [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Endosulfan sulfate [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Endrin [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Endrin aldehyde [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Endrin ketone [2]	ND	0.080	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Heptachlor [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Heptachlor epoxide [1]	0.43	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Hexachlorobenzene [2]	ND	0.050	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Methoxychlor [2]	ND	0.50	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Toxaphene [2]	ND	1.0	µg/L	1		SW-846 8081B	12/19/18	12/21/18 2:50	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.6	30-150					12/21/18 2:50	
Decachlorobiphenyl [2]		84.7	30-150					12/21/18 2:50	
Tetrachloro-m-xylene [1]		85.3	30-150					12/21/18 2:50	
Tetrachloro-m-xylene [2]		81.1	30-150					12/21/18 2:50	

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18L0654-01 [629-SB626 (1-2')]	B219380	12/17/18
18L0654-02 [E31-SB624 (0-1)]	B219380	12/17/18
18L0654-03 [F30-SB623 (0-1)]	B219380	12/17/18

**Prep Method: SW-846 3510C-SW-846 8081B**

Leachates were extracted on 12/13/2018 per SW-846 1312 in Batch B219188

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0654-01 [629-SB626 (1-2')]	B219513	500	5.00	12/18/18

**Prep Method: SW-846 3510C-SW-846 8081B**

Leachates were extracted on 12/18/2018 per SW-846 1312 in Batch B219479

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0654-02 [E31-SB624 (0-1)]	B219617	500	5.00	12/19/18
18L0654-03 [F30-SB623 (0-1)]	B219617	500	5.00	12/19/18

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B219513 - SW-846 3510C

Blank (B219513-BLK1)

Prepared: 12/18/18 Analyzed: 12/20/18

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.17		µg/L	2.00		58.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.12		µg/L	2.00		56.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.56		µg/L	2.00		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.48		µg/L	2.00		73.9	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B219513 - SW-846 3510C</b>										
<b>LCS (B219513-BS1)</b>										
					Prepared: 12/18/18 Analyzed: 12/20/18					
Alachlor	0.78	0.20	µg/L	1.00		77.6	40-140			
Alachlor [2C]	0.78	0.20	µg/L	1.00		77.5	40-140			
Aldrin	0.92	0.050	µg/L	1.00		92.1	40-140			V-06
Aldrin [2C]	0.83	0.050	µg/L	1.00		83.1	40-140			
alpha-BHC	0.86	0.050	µg/L	1.00		86.2	40-140			V-06
alpha-BHC [2C]	0.80	0.050	µg/L	1.00		80.0	40-140			
beta-BHC	0.91	0.050	µg/L	1.00		91.2	40-140			
beta-BHC [2C]	0.83	0.050	µg/L	1.00		82.6	40-140			
delta-BHC	0.93	0.050	µg/L	1.00		92.7	40-140			
delta-BHC [2C]	0.85	0.050	µg/L	1.00		84.5	40-140			
gamma-BHC (Lindane)	0.90	0.030	µg/L	1.00		90.0	40-140			V-06
gamma-BHC (Lindane) [2C]	0.83	0.030	µg/L	1.00		83.2	40-140			
4,4'-DDD	0.98	0.040	µg/L	1.00		98.1	40-140			
4,4'-DDD [2C]	0.87	0.040	µg/L	1.00		86.9	40-140			
4,4'-DDE	0.98	0.040	µg/L	1.00		97.6	40-140			V-06
4,4'-DDE [2C]	0.87	0.040	µg/L	1.00		86.8	40-140			
4,4'-DDT	1.0	0.040	µg/L	1.00		99.6	40-140			
4,4'-DDT [2C]	0.91	0.040	µg/L	1.00		91.1	40-140			
Dieldrin	0.94	0.0020	µg/L	1.00		93.8	40-140			
Dieldrin [2C]	0.82	0.0020	µg/L	1.00		82.1	40-140			
Endosulfan I	0.90	0.050	µg/L	1.00		90.1	40-140			
Endosulfan I [2C]	0.85	0.050	µg/L	1.00		84.8	40-140			
Endosulfan II	0.91	0.080	µg/L	1.00		91.1	40-140			
Endosulfan II [2C]	0.85	0.080	µg/L	1.00		85.0	40-140			
Endosulfan Sulfate	0.94	0.080	µg/L	1.00		93.5	40-140			
Endosulfan Sulfate [2C]	0.87	0.080	µg/L	1.00		87.3	40-140			
Endrin	0.91	0.080	µg/L	1.00		91.3	40-140			
Endrin [2C]	0.85	0.080	µg/L	1.00		85.2	40-140			
Endrin Aldehyde	0.76	0.080	µg/L	1.00		75.9	40-140			
Endrin Aldehyde [2C]	0.70	0.080	µg/L	1.00		70.5	40-140			
Endrin Ketone	0.98	0.080	µg/L	1.00		97.8	40-140			
Endrin Ketone [2C]	0.94	0.080	µg/L	1.00		93.7	40-140			
Heptachlor	0.90	0.050	µg/L	1.00		90.1	40-140			
Heptachlor [2C]	0.82	0.050	µg/L	1.00		82.4	40-140			
Heptachlor Epoxide	0.91	0.050	µg/L	1.00		91.2	40-140			
Heptachlor Epoxide [2C]	0.83	0.050	µg/L	1.00		83.3	40-140			
Hexachlorobenzene	0.90	0.050	µg/L	1.00		90.5	40-140			
Hexachlorobenzene [2C]	0.82	0.050	µg/L	1.00		81.9	40-140			
Methoxychlor	1.0	0.50	µg/L	1.00		105	40-140			
Methoxychlor [2C]	1.0	0.50	µg/L	1.00		100	40-140			
Surrogate: Decachlorobiphenyl	1.33		µg/L	2.00		66.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.28		µg/L	2.00		64.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.46		µg/L	2.00		72.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.36		µg/L	2.00		68.2	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B219513 - SW-846 3510C</b>										
<b>LCS Dup (B219513-BSD1)</b>										
				Prepared: 12/18/18 Analyzed: 12/20/18						
Alachlor	0.73	0.20	µg/L	1.00		72.6	40-140	6.68		
Alachlor [2C]	0.73	0.20	µg/L	1.00		73.3	40-140	5.61		
Aldrin	0.89	0.050	µg/L	1.00		89.0	40-140	3.44		V-06
Aldrin [2C]	0.80	0.050	µg/L	1.00		80.3	40-140	3.45		
alpha-BHC	0.82	0.050	µg/L	1.00		82.3	40-140	4.64		V-06
alpha-BHC [2C]	0.77	0.050	µg/L	1.00		76.6	40-140	4.43		
beta-BHC	0.86	0.050	µg/L	1.00		86.1	40-140	5.65		
beta-BHC [2C]	0.80	0.050	µg/L	1.00		80.0	40-140	3.26		
delta-BHC	0.90	0.050	µg/L	1.00		89.9	40-140	2.99		
delta-BHC [2C]	0.82	0.050	µg/L	1.00		82.0	40-140	3.08		
gamma-BHC (Lindane)	0.86	0.030	µg/L	1.00		86.2	40-140	4.35		V-06
gamma-BHC (Lindane) [2C]	0.79	0.030	µg/L	1.00		78.9	40-140	5.34		
4,4'-DDD	0.93	0.040	µg/L	1.00		93.5	40-140	4.80		
4,4'-DDD [2C]	0.84	0.040	µg/L	1.00		83.8	40-140	3.67		
4,4'-DDE	0.95	0.040	µg/L	1.00		95.3	40-140	2.41		V-06
4,4'-DDE [2C]	0.85	0.040	µg/L	1.00		84.9	40-140	2.24		
4,4'-DDT	0.95	0.040	µg/L	1.00		94.6	40-140	5.09		
4,4'-DDT [2C]	0.87	0.040	µg/L	1.00		87.1	40-140	4.51		
Dieldrin	0.91	0.0020	µg/L	1.00		91.3	40-140	2.72		
Dieldrin [2C]	0.80	0.0020	µg/L	1.00		79.6	40-140	3.09		
Endosulfan I	0.88	0.050	µg/L	1.00		87.9	40-140	2.48		
Endosulfan I [2C]	0.82	0.050	µg/L	1.00		82.5	40-140	2.79		
Endosulfan II	0.90	0.080	µg/L	1.00		90.3	40-140	0.924		
Endosulfan II [2C]	0.85	0.080	µg/L	1.00		84.6	40-140	0.562		
Endosulfan Sulfate	0.92	0.080	µg/L	1.00		91.6	40-140	2.13		
Endosulfan Sulfate [2C]	0.85	0.080	µg/L	1.00		84.8	40-140	2.84		
Endrin	0.89	0.080	µg/L	1.00		89.2	40-140	2.35		
Endrin [2C]	0.82	0.080	µg/L	1.00		82.2	40-140	3.55		
Endrin Aldehyde	0.70	0.080	µg/L	1.00		70.5	40-140	7.40		
Endrin Aldehyde [2C]	0.66	0.080	µg/L	1.00		65.6	40-140	7.18		
Endrin Ketone	0.94	0.080	µg/L	1.00		93.9	40-140	4.17		
Endrin Ketone [2C]	0.89	0.080	µg/L	1.00		89.1	40-140	5.06		
Heptachlor	0.86	0.050	µg/L	1.00		86.1	40-140	4.49		
Heptachlor [2C]	0.79	0.050	µg/L	1.00		78.7	40-140	4.57		
Heptachlor Epoxide	0.88	0.050	µg/L	1.00		87.7	40-140	3.92		
Heptachlor Epoxide [2C]	0.81	0.050	µg/L	1.00		80.8	40-140	3.01		
Hexachlorobenzene	0.83	0.050	µg/L	1.00		83.1	40-140	8.53	30	
Hexachlorobenzene [2C]	0.76	0.050	µg/L	1.00		76.5	40-140	6.87	30	
Methoxychlor	1.0	0.50	µg/L	1.00		99.8	40-140	5.02		
Methoxychlor [2C]	0.95	0.50	µg/L	1.00		95.4	40-140	4.72		
Surrogate: Decachlorobiphenyl	0.961		µg/L	2.00		48.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.918		µg/L	2.00		45.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.39		µg/L	2.00		69.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		65.2	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B219513 - SW-846 3510C</b>										
<b>Matrix Spike (B219513-MS1)</b>	<b>Source: 18L0654-01</b>			Prepared: 12/18/18 Analyzed: 12/21/18						
Alachlor	0.88	0.20	µg/L	1.00	ND	88.1	30-150			
Alachlor [2C]	0.87	0.20	µg/L	1.00	ND	87.0	30-150			
Aldrin	0.93	0.050	µg/L	1.00	ND	93.4	30-150			
Aldrin [2C]	0.84	0.050	µg/L	1.00	ND	83.8	30-150			
alpha-BHC	0.93	0.050	µg/L	1.00	ND	93.1	30-150			
alpha-BHC [2C]	0.86	0.050	µg/L	1.00	ND	86.1	30-150			
beta-BHC	1.0	0.050	µg/L	1.00	ND	101	30-150			
beta-BHC [2C]	0.88	0.050	µg/L	1.00	ND	88.5	30-150			
delta-BHC	1.0	0.050	µg/L	1.00	ND	104	30-150			
delta-BHC [2C]	0.92	0.050	µg/L	1.00	ND	92.4	30-150			
gamma-BHC (Lindane)	0.97	0.030	µg/L	1.00	ND	96.8	30-150			
gamma-BHC (Lindane) [2C]	0.90	0.030	µg/L	1.00	ND	89.5	30-150			
4,4'-DDD	0.98	0.040	µg/L	1.00	ND	97.6	30-150			
4,4'-DDD [2C]	0.88	0.040	µg/L	1.00	ND	87.7	30-150			
4,4'-DDE	0.95	0.040	µg/L	1.00	ND	94.7	30-150			
4,4'-DDE [2C]	0.86	0.040	µg/L	1.00	ND	86.0	30-150			
4,4'-DDT	0.99	0.040	µg/L	1.00	ND	99.2	30-150			
4,4'-DDT [2C]	0.90	0.040	µg/L	1.00	ND	90.1	30-150			
Dieldrin	0.97	0.0020	µg/L	1.00	ND	97.1	30-150			
Dieldrin [2C]	0.84	0.0020	µg/L	1.00	ND	84.3	30-150			
Endosulfan I	1.0	0.050	µg/L	1.00	ND	101	30-150			
Endosulfan I [2C]	0.90	0.050	µg/L	1.00	ND	89.9	30-150			
Endosulfan II	0.99	0.080	µg/L	1.00	ND	98.6	30-150			
Endosulfan II [2C]	0.91	0.080	µg/L	1.00	ND	90.6	30-150			
Endosulfan Sulfate	0.99	0.080	µg/L	1.00	ND	99.5	30-150			
Endosulfan Sulfate [2C]	0.91	0.080	µg/L	1.00	ND	90.7	30-150			
Endrin	0.96	0.080	µg/L	1.00	ND	95.8	30-150			
Endrin [2C]	0.88	0.080	µg/L	1.00	ND	88.0	30-150			
Endrin Aldehyde	0.89	0.080	µg/L	1.00	ND	89.0	30-150			
Endrin Aldehyde [2C]	0.83	0.080	µg/L	1.00	ND	82.9	30-150			
Endrin Ketone	1.0	0.080	µg/L	1.00	ND	101	30-150			
Endrin Ketone [2C]	0.96	0.080	µg/L	1.00	ND	96.1	30-150			
Heptachlor	0.93	0.050	µg/L	1.00	ND	93.3	30-150			
Heptachlor [2C]	0.85	0.050	µg/L	1.00	ND	85.2	30-150			
Heptachlor Epoxide	0.96	0.050	µg/L	1.00	ND	96.3	30-150			
Heptachlor Epoxide [2C]	0.89	0.050	µg/L	1.00	ND	88.5	30-150			
Hexachlorobenzene	0.94	0.050	µg/L	1.00	ND	93.8	30-150			
Hexachlorobenzene [2C]	0.84	0.050	µg/L	1.00	ND	83.8	30-150			
Methoxychlor	1.1	0.50	µg/L	1.00	ND	107	30-150			
Methoxychlor [2C]	1.0	0.50	µg/L	1.00	ND	103	30-150			
Surrogate: Decachlorobiphenyl	1.30		µg/L	2.00		65.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.25		µg/L	2.00		62.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/L	2.00		77.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.41		µg/L	2.00		70.7	30-150			

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B219617 - SW-846 3510C

Blank (B219617-BLK1)

Prepared: 12/19/18 Analyzed: 12/20/18

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.72		µg/L	2.00		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.64		µg/L	2.00		82.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.38		µg/L	2.00		69.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		65.0	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B219617 - SW-846 3510C</b>										
<b>LCS (B219617-BS1)</b>										
				Prepared: 12/19/18 Analyzed: 12/20/18						
Alachlor	1.0	0.20	µg/L	1.00		101	40-140			
Alachlor [2C]	1.0	0.20	µg/L	1.00		102	40-140			
Aldrin	1.2	0.050	µg/L	1.00		119	40-140			
Aldrin [2C]	1.1	0.050	µg/L	1.00		107	40-140			
alpha-BHC	1.1	0.050	µg/L	1.00		110	40-140			
alpha-BHC [2C]	1.0	0.050	µg/L	1.00		103	40-140			
beta-BHC	1.1	0.050	µg/L	1.00		115	40-140			
beta-BHC [2C]	1.0	0.050	µg/L	1.00		104	40-140			
delta-BHC	1.2	0.050	µg/L	1.00		117	40-140			
delta-BHC [2C]	1.1	0.050	µg/L	1.00		107	40-140			
gamma-BHC (Lindane)	1.1	0.030	µg/L	1.00		115	40-140			
gamma-BHC (Lindane) [2C]	1.0	0.030	µg/L	1.00		104	40-140			
4,4'-DDD	1.2	0.040	µg/L	1.00		122	40-140			
4,4'-DDD [2C]	1.1	0.040	µg/L	1.00		109	40-140			
4,4'-DDE	1.2	0.040	µg/L	1.00		124	40-140			
4,4'-DDE [2C]	1.1	0.040	µg/L	1.00		109	40-140			
4,4'-DDT	1.3	0.040	µg/L	1.00		129	40-140			
4,4'-DDT [2C]	1.2	0.040	µg/L	1.00		117	40-140			
Dieldrin	1.2	0.0020	µg/L	1.00		118	40-140			
Dieldrin [2C]	1.0	0.0020	µg/L	1.00		103	40-140			
Endosulfan I	1.2	0.050	µg/L	1.00		115	40-140			
Endosulfan I [2C]	1.1	0.050	µg/L	1.00		108	40-140			
Endosulfan II	1.2	0.080	µg/L	1.00		118	40-140			
Endosulfan II [2C]	1.1	0.080	µg/L	1.00		109	40-140			
Endosulfan Sulfate	1.2	0.080	µg/L	1.00		119	40-140			
Endosulfan Sulfate [2C]	1.1	0.080	µg/L	1.00		110	40-140			
Endrin	1.2	0.080	µg/L	1.00		115	40-140			
Endrin [2C]	1.1	0.080	µg/L	1.00		106	40-140			
Endrin Aldehyde	1.1	0.080	µg/L	1.00		113	40-140			
Endrin Aldehyde [2C]	1.0	0.080	µg/L	1.00		104	40-140			
Endrin Ketone	1.2	0.080	µg/L	1.00		124	40-140			
Endrin Ketone [2C]	1.2	0.080	µg/L	1.00		117	40-140			
Heptachlor	1.2	0.050	µg/L	1.00		116	40-140			
Heptachlor [2C]	1.1	0.050	µg/L	1.00		105	40-140			
Heptachlor Epoxide	1.2	0.050	µg/L	1.00		116	40-140			
Heptachlor Epoxide [2C]	1.0	0.050	µg/L	1.00		105	40-140			
Hexachlorobenzene	1.1	0.050	µg/L	1.00		114	40-140			
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		103	40-140			
Methoxychlor	1.3	0.50	µg/L	1.00		133	40-140			
Methoxychlor [2C]	1.3	0.50	µg/L	1.00		127	40-140			
Surrogate: Decachlorobiphenyl	2.15		µg/L	2.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.05		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	1.95		µg/L	2.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.83		µg/L	2.00		91.4	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B219617 - SW-846 3510C</b>										
<b>LCS Dup (B219617-BSD1)</b>										
					Prepared: 12/19/18 Analyzed: 12/20/18					
Alachlor	1.0	0.20	µg/L	1.00		101	40-140	0.567		
Alachlor [2C]	1.0	0.20	µg/L	1.00		101	40-140	0.585		
Aldrin	1.2	0.050	µg/L	1.00		117	40-140	2.43		
Aldrin [2C]	1.0	0.050	µg/L	1.00		105	40-140	2.11		
alpha-BHC	1.1	0.050	µg/L	1.00		106	40-140	3.62		
alpha-BHC [2C]	1.0	0.050	µg/L	1.00		99.8	40-140	2.79		
beta-BHC	1.1	0.050	µg/L	1.00		113	40-140	1.86		
beta-BHC [2C]	1.0	0.050	µg/L	1.00		102	40-140	1.59		
delta-BHC	1.1	0.050	µg/L	1.00		113	40-140	3.22		
delta-BHC [2C]	1.1	0.050	µg/L	1.00		105	40-140	2.09		
gamma-BHC (Lindane)	1.1	0.030	µg/L	1.00		111	40-140	3.37		
gamma-BHC (Lindane) [2C]	1.0	0.030	µg/L	1.00		102	40-140	2.29		
4,4'-DDD	1.2	0.040	µg/L	1.00		121	40-140	0.796		
4,4'-DDD [2C]	1.1	0.040	µg/L	1.00		108	40-140	0.975		
4,4'-DDE	1.2	0.040	µg/L	1.00		123	40-140	0.983		
4,4'-DDE [2C]	1.1	0.040	µg/L	1.00		109	40-140	0.752		
4,4'-DDT	1.3	0.040	µg/L	1.00		127	40-140	1.26		
4,4'-DDT [2C]	1.2	0.040	µg/L	1.00		116	40-140	1.07		
Dieldrin	1.2	0.0020	µg/L	1.00		117	40-140	1.00		
Dieldrin [2C]	1.0	0.0020	µg/L	1.00		102	40-140	1.16		
Endosulfan I	1.1	0.050	µg/L	1.00		114	40-140	1.37		
Endosulfan I [2C]	1.1	0.050	µg/L	1.00		106	40-140	1.16		
Endosulfan II	1.2	0.080	µg/L	1.00		116	40-140	0.880		
Endosulfan II [2C]	1.1	0.080	µg/L	1.00		108	40-140	0.876		
Endosulfan Sulfate	1.2	0.080	µg/L	1.00		118	40-140	0.712		
Endosulfan Sulfate [2C]	1.1	0.080	µg/L	1.00		109	40-140	0.778		
Endrin	1.1	0.080	µg/L	1.00		114	40-140	1.16		
Endrin [2C]	1.0	0.080	µg/L	1.00		105	40-140	1.26		
Endrin Aldehyde	1.1	0.080	µg/L	1.00		113	40-140	0.398		
Endrin Aldehyde [2C]	1.0	0.080	µg/L	1.00		104	40-140	0.195		
Endrin Ketone	1.2	0.080	µg/L	1.00		123	40-140	0.749		
Endrin Ketone [2C]	1.2	0.080	µg/L	1.00		117	40-140	0.653		
Heptachlor	1.1	0.050	µg/L	1.00		113	40-140	2.81		
Heptachlor [2C]	1.0	0.050	µg/L	1.00		103	40-140	2.25		
Heptachlor Epoxide	1.1	0.050	µg/L	1.00		114	40-140	1.77		
Heptachlor Epoxide [2C]	1.0	0.050	µg/L	1.00		103	40-140	1.39		
Hexachlorobenzene	1.1	0.050	µg/L	1.00		111	40-140	2.25	30	
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		101	40-140	1.78	30	
Methoxychlor	1.3	0.50	µg/L	1.00		132	40-140	1.06		
Methoxychlor [2C]	1.3	0.50	µg/L	1.00		125	40-140	1.04		
Surrogate: Decachlorobiphenyl	2.12		µg/L	2.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.03		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	1.87		µg/L	2.00		93.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.76		µg/L	2.00		88.0	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B219617 - SW-846 3510C</b>										
<b>Matrix Spike (B219617-MS1)</b>	<b>Source: 18L0654-03</b>			Prepared: 12/19/18 Analyzed: 12/21/18						
Alachlor	1.1	0.20	µg/L	1.00	ND	105	30-150			
Alachlor [2C]	0.98	0.20	µg/L	1.00	ND	97.6	30-150			
Aldrin	1.0	0.050	µg/L	1.00	ND	102	30-150			
Aldrin [2C]	0.90	0.050	µg/L	1.00	ND	90.1	30-150			
alpha-BHC	0.94	0.050	µg/L	1.00	ND	93.6	30-150			
alpha-BHC [2C]	0.90	0.050	µg/L	1.00	ND	90.4	30-150			
beta-BHC	1.2	0.050	µg/L	1.00	ND	118	30-150			
beta-BHC [2C]	0.95	0.050	µg/L	1.00	ND	94.7	30-150			
delta-BHC	1.2	0.050	µg/L	1.00	ND	115	30-150			
delta-BHC [2C]	1.0	0.050	µg/L	1.00	ND	102	30-150			
gamma-BHC (Lindane)	1.0	0.030	µg/L	1.00	ND	102	30-150			
gamma-BHC (Lindane) [2C]	0.95	0.030	µg/L	1.00	ND	94.8	30-150			
4,4'-DDD	1.1	0.040	µg/L	1.00	ND	106	30-150			
4,4'-DDD [2C]	1.1	0.040	µg/L	1.00	ND	107	30-150			
4,4'-DDE	1.2	0.040	µg/L	1.00	ND	120	30-150			
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00	ND	103	30-150			
4,4'-DDT	1.2	0.040	µg/L	1.00	0.055	114	30-150			
4,4'-DDT [2C]	1.1	0.040	µg/L	1.00	0.058	103	30-150			
Dieldrin	1.1	0.0020	µg/L	1.00	ND	109	30-150			
Dieldrin [2C]	1.0	0.0020	µg/L	1.00	ND	102	30-150			
<b>Endosulfan I</b>	2.0	0.050	µg/L	1.00	ND	<b>200</b> *	30-150			MS-14
Endosulfan I [2C]	1.1	0.050	µg/L	1.00	ND	112	30-150			
Endosulfan II	1.1	0.080	µg/L	1.00	ND	113	30-150			
Endosulfan II [2C]	1.0	0.080	µg/L	1.00	ND	103	30-150			
Endosulfan Sulfate	1.2	0.080	µg/L	1.00	ND	117	30-150			
Endosulfan Sulfate [2C]	1.0	0.080	µg/L	1.00	ND	104	30-150			
Endrin	1.1	0.080	µg/L	1.00	ND	110	30-150			
Endrin [2C]	1.0	0.080	µg/L	1.00	ND	104	30-150			
Endrin Aldehyde	0.83	0.080	µg/L	1.00	ND	83.3	30-150			
Endrin Aldehyde [2C]	0.96	0.080	µg/L	1.00	ND	96.3	30-150			
Endrin Ketone	1.2	0.080	µg/L	1.00	ND	119	30-150			
Endrin Ketone [2C]	1.1	0.080	µg/L	1.00	ND	111	30-150			
Heptachlor	1.0	0.050	µg/L	1.00	ND	99.6	30-150			
Heptachlor [2C]	0.93	0.050	µg/L	1.00	ND	93.4	30-150			
Heptachlor Epoxide	1.5	0.050	µg/L	1.00	0.43	106	30-150			
Heptachlor Epoxide [2C]	1.3	0.050	µg/L	1.00	0.42	90.0	30-150			
Hexachlorobenzene	0.96	0.050	µg/L	1.00	ND	95.7	30-150			
Hexachlorobenzene [2C]	0.88	0.050	µg/L	1.00	ND	87.5	30-150			
Methoxychlor	1.2	0.50	µg/L	1.00	ND	125	30-150			
Methoxychlor [2C]	1.3	0.50	µg/L	1.00	ND	129	30-150			
Surrogate: Decachlorobiphenyl	1.77		µg/L	2.00		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.70		µg/L	2.00		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.60		µg/L	2.00		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.52		µg/L	2.00		75.8	30-150			

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## BREAKDOWN REPORT

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**Lab Sample ID:** S030558-PEM1 **Analyzed:** 12/20/2018

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 2.61  
Endrin [1] 2.98

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 3.17  
Endrin [2] 3.35

---

## BREAKDOWN REPORT

---

**Lab Sample ID:** S030558-PEM2 **Analyzed:** 12/21/2018

---

**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 2.83  
Endrin [1] 2.95

---

**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 3.41  
Endrin [2] 3.25

---

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**E31-SB624 (0-1)**

*SW-846 8081B*

Lab Sample ID: 18L0654-02 Date(s) Analyzed 12/21/2018 12/21/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	0.000	0.000	1.6	
	2	0.000	0.000	0.000	1.7	6.1
Heptachlor Epoxide	1	6.753	0.000	0.000	0.16	
	2	6.602	0.000	0.000	0.16	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**F30-SB623 (0-1)**

*SW-846 8081B*

Lab Sample ID: 18L0654-03 Date(s) Analyzed 12/21/2018 12/21/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.664	0.000	0.000	0.055	
	2	7.651	0.000	0.000	0.058	5.3
Chlordane	1	0.000	0.000	0.000	3.1	
	2	0.000	0.000	0.000	3.0	3.3
Heptachlor Epoxide	1	6.754	0.000	0.000	0.43	
	2	6.602	0.000	0.000	0.42	2.4



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

LCS
-----

Lab Sample ID: B219513-BS1 Date(s) Analyzed 12/20/2018 12/20/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.706	0.000	0.000	0.83	8.1
Heptachlor	1	6.112	0.000	0.000	0.90	
	2	5.992	0.000	0.000	0.82	9.3
Heptachlor Epoxide	1	6.755	0.000	0.000	0.91	
	2	6.603	0.000	0.000	0.83	9.2
Hexachlorobenzene	1	5.473	0.000	0.000	0.90	
	2	5.402	0.000	0.000	0.82	10.4
Methoxychlor	1	8.035	0.000	0.000	1.0	
	2	8.175	0.000	0.000	1.0	9.5

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**LCS Dup**

Lab Sample ID:                     B219513-BSD1                          Date(s) Analyzed           12/20/2018                     12/20/2018            
 Instrument ID (1):                     ECD2                          Instrument ID (2):                     ECD2                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.447	0.000	0.000	0.93	
	2	7.408	0.000	0.000	0.84	11.2
4,4'-DDE	1	6.995	0.000	0.000	0.95	
	2	6.973	0.000	0.000	0.85	11.1
4,4'-DDT	1	7.664	0.000	0.000	0.95	
	2	7.651	0.000	0.000	0.87	8.8
Alachlor	1	6.417	0.000	0.000	0.73	
	2	6.140	0.000	0.000	0.73	0.0
Aldrin	1	6.322	0.000	0.000	0.89	
	2	6.208	0.000	0.000	0.80	10.7
alpha-BHC	1	5.583	0.000	0.000	0.82	
	2	5.487	0.000	0.000	0.77	6.3
beta-BHC	1	5.846	0.000	0.000	0.86	
	2	5.758	0.000	0.000	0.80	7.2
delta-BHC	1	5.968	0.000	0.000	0.90	
	2	5.947	0.000	0.000	0.82	9.3
Dieldrin	1	7.224	0.000	0.000	0.91	
	2	7.086	0.000	0.000	0.80	12.9
Endosulfan I	1	7.046	0.000	0.000	0.88	
	2	6.884	0.000	0.000	0.82	7.1
Endosulfan II	1	7.572	0.000	0.000	0.90	
	2	7.473	0.000	0.000	0.85	5.7
Endosulfan Sulfate	1	8.210	0.000	0.000	0.92	
	2	7.951	0.000	0.000	0.85	7.9
Endrin	1	7.400	0.000	0.000	0.89	
	2	7.311	0.000	0.000	0.82	8.2
Endrin Aldehyde	1	7.898	0.000	0.000	0.70	
	2	7.735	0.000	0.000	0.66	7.3
Endrin Ketone	1	8.392	0.000	0.000	0.94	
	2	8.318	0.000	0.000	0.89	5.5
gamma-BHC (Lindane)	1	5.791	0.000	0.000	0.86	





**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                     B219513-MS1                                          Date(s) Analyzed           12/21/2018                     12/21/2018          

Instrument ID (1):                     ECD2                                          Instrument ID (2):                     ECD2                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.706	0.000	0.000	0.90	7.5
Heptachlor	1	6.111	0.000	0.000	0.93	
	2	5.992	0.000	0.000	0.85	9.0
Heptachlor Epoxide	1	6.754	0.000	0.000	0.96	
	2	6.603	0.000	0.000	0.89	7.6
Hexachlorobenzene	1	5.472	0.000	0.000	0.94	
	2	5.402	0.000	0.000	0.84	11.2
Methoxychlor	1	8.033	0.000	0.000	1.1	
	2	8.174	0.000	0.000	1.0	9.5



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*

Lab Sample ID:                   B219617-BS1                                        Date(s) Analyzed           12/20/2018                     12/20/2018          

Instrument ID (1):                   ECD2                                        Instrument ID (2):                   ECD2                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.705	0.000	0.000	1.0	18.2
Heptachlor	1	6.111	0.000	0.000	1.2	
	2	5.991	0.000	0.000	1.1	8.7
Heptachlor Epoxide	1	6.754	0.000	0.000	1.2	
	2	6.603	0.000	0.000	1.0	18.2
Hexachlorobenzene	1	5.472	0.000	0.000	1.1	
	2	5.401	0.000	0.000	1.0	9.5
Methoxychlor	1	8.034	0.000	0.000	1.3	
	2	8.174	0.000	0.000	1.3	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**LCS Dup**

Lab Sample ID:                     B219617-BSD1                          Date(s) Analyzed           12/20/2018                     12/20/2018            
 Instrument ID (1):                     ECD2                          Instrument ID (2):                     ECD2                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.447	0.000	0.000	1.2	
	2	7.409	0.000	0.000	1.1	8.7
4,4'-DDE	1	6.995	0.000	0.000	1.2	
	2	6.973	0.000	0.000	1.1	8.7
4,4'-DDT	1	7.663	0.000	0.000	1.3	
	2	7.652	0.000	0.000	1.2	8.0
Alachlor	1	6.417	0.000	0.000	1.0	
	2	6.139	0.000	0.000	1.0	0.0
Aldrin	1	6.322	0.000	0.000	1.2	
	2	6.207	0.000	0.000	1.0	18.2
alpha-BHC	1	5.583	0.000	0.000	1.1	
	2	5.486	0.000	0.000	1.0	9.5
beta-BHC	1	5.846	0.000	0.000	1.1	
	2	5.757	0.000	0.000	1.0	9.5
delta-BHC	1	5.968	0.000	0.000	1.1	
	2	5.947	0.000	0.000	1.1	0.0
Dieldrin	1	7.224	0.000	0.000	1.2	
	2	7.085	0.000	0.000	1.0	18.2
Endosulfan I	1	7.045	0.000	0.000	1.1	
	2	6.884	0.000	0.000	1.1	0.0
Endosulfan II	1	7.572	0.000	0.000	1.2	
	2	7.474	0.000	0.000	1.1	8.7
Endosulfan Sulfate	1	8.210	0.000	0.000	1.2	
	2	7.951	0.000	0.000	1.1	8.7
Endrin	1	7.401	0.000	0.000	1.1	
	2	7.311	0.000	0.000	1.0	9.5
Endrin Aldehyde	1	7.897	0.000	0.000	1.1	
	2	7.735	0.000	0.000	1.0	9.5
Endrin Ketone	1	8.392	0.000	0.000	1.2	
	2	8.319	0.000	0.000	1.2	0.0
gamma-BHC (Lindane)	1	5.791	0.000	0.000	1.1	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

LCS Dup
---------

Lab Sample ID:                     B219617-BSD1                                          Date(s) Analyzed           12/20/2018                     12/20/2018          

Instrument ID (1):                     ECD2                                          Instrument ID (2):                     ECD2                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.705	0.000	0.000	1.0	9.5
Heptachlor	1	6.112	0.000	0.000	1.1	
	2	5.992	0.000	0.000	1.0	9.5
Heptachlor Epoxide	1	6.754	0.000	0.000	1.1	
	2	6.603	0.000	0.000	1.0	9.5
Hexachlorobenzene	1	5.472	0.000	0.000	1.1	
	2	5.401	0.000	0.000	1.0	9.5
Methoxychlor	1	8.034	0.000	0.000	1.3	
	2	8.175	0.000	0.000	1.3	0.0



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                   B219617-MS1                                        Date(s) Analyzed           12/21/2018                     12/21/2018          

Instrument ID (1):                   ECD2                                        Instrument ID (2):                   ECD2                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.706	0.000	0.000	0.95	5.1
Heptachlor	1	6.111	0.000	0.000	1.0	
	2	5.992	0.000	0.000	0.93	7.3
Heptachlor Epoxide	1	6.753	0.000	0.000	1.5	
	2	6.603	0.000	0.000	1.3	14.3
Hexachlorobenzene	1	5.472	0.000	0.000	0.96	
	2	5.401	0.000	0.000	0.88	8.7
Methoxychlor	1	8.033	0.000	0.000	1.2	
	2	8.175	0.000	0.000	1.3	0.0

---

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
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.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.

**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	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test**<sup>®</sup>  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Decom

Received By LR Date 11-29-18 Time 1800

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb</u> /Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

**Unused Media**

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

**Meghan Kelley**

---

**From:** Haskell, Patrick  
**Sent:** Thursday, December 13, 2018 7:21 PM  
**To:** mkelley@contestlabs.com  
**Subject:** FW: 18K1266

Hi Meghan,

I sent the original request to Aaron (see email below) and did not get a reply but it might be in the works. My follow-up request got an out-of-office response. Can you add these two samples to the SPLP pesticides analysis request below?

18K1266-08 E31-SB624 (0-1)  
18K1266-09 F30-SB623 (0-1)

Thanks,

**Patrick Haskell, LEP, CHMM**  
Technical Leader  
D 401.854.2808 M 978.866.9078  
[patrick.haskell@aecom.com](mailto:patrick.haskell@aecom.com)

**AECOM**  
10 Orms Street, Suite 400  
Providence, RI 02904  
T 401.274.5685 F 401.521.2730  
[www.aecom.com](http://www.aecom.com)

---

**From:** Haskell, Patrick  
**Sent:** Thursday, December 13, 2018 2:00 PM  
**To:** Aaron L. Benoit (aaron.benoit@contestlabs.com) (aaron.benoit@contestlabs.com)  
**Cc:** Rood, Matthew  
**Subject:** 18K1266

Hi Aaron,

Can you run a couple additional analyses on samples from lab deliverable 18K1266?

Please run the following sample for SPLP pesticides:  
18K1266-06 G29-SB626 (0-1) [The lab mistakenly transcribed the ID as 629-SB626 (0-1).]

And please run the following previously held sample for chlorinated pesticides:  
F31-SB627 (0-1)

Thanks,

**Patrick Haskell, LEP, CHMM**  
Technical Leader  
D 401.854.2808 M 978.866.9078

[patrick.haskell@aecom.com](mailto:patrick.haskell@aecom.com)

**AECOM**

10 Orms Street, Suite 400

Providence, RI 02904

T 401.274.5685 F 401.521.2730

[www.aecom.com](http://www.aecom.com)



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18L0654

**Laboratory Sample ID(s):**

**Sample Date(s):**

18L0654-01 thru 18L0654-03

11/29/2018

**List RCP Methods Used:**

SW-846 1312, SW-846 8081B

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 12/21/18

**Name of Laboratory:** Con-Test Analytical Laboratory

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

February 20, 2019

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 18L1306

Enclosed are results of analyses for samples received by the laboratory on December 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 2/20/2019

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18L1306

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
C11-SB711 (0-0.5)-1	18L1306-01	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
C11-SB711 (0-0.5)-2	18L1306-02	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
C12-SB712 (0-0.5)-1	18L1306-03	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
C11-SB713 (0-0.5)-1	18L1306-04	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
C12-SB714 (0-0.5)-1	18L1306-05	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
D31-SB633 (0-1)-1	18L1306-06	Soil		SM 2540G SW-846 8081B	
E31-SB634 (0-1)-1	18L1306-07	Soil		SM 2540G SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 2/20/2019: Report revised to update client sample IDs per client e-mail request.

REVISED REPORT: 2/8/2019

For method 8081, per clients request samples 18L1306-06 and -07 were evaluated down to the MDL.

For method 8270, only PAHs were requested and reported.

**CTDEP ETPH****Qualifications:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

**Analyte & Samples(s) Qualified:****CT ETPH**

B220373-MS1, B220373-MSD1

**SW-846 8081B****Qualifications:****DL-03**

Elevated reporting limit due to matrix.

**Analyte & Samples(s) Qualified:**

18L1306-06[D31-SB633 (0-1)-1]

**V-06**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

**Analyte & Samples(s) Qualified:****alpha-BHC**

B220242-MS1, B220242-MSD1

**beta-BHC**

B220242-MS1, B220242-MSD1

**gamma-BHC (Lindane)**

B220242-BS1, B220242-BSD1, B220242-MS1, B220242-MSD1

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.



Aaron L. Benoit  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB711 (0-0.5)-1

Sampled: 12/28/2018 09:15

Sample ID: 18L1306-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Benzo(a)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Benzo(a)pyrene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Benzo(b)fluoranthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Benzo(g,h,i)perylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Benzo(k)fluoranthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Chrysene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Dibenz(a,h)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Fluoranthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Phenanthrene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Pyrene	ND	0.24	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:31	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		74.1	30-130					1/2/19 17:31	
2-Fluorobiphenyl		72.3	30-130					1/2/19 17:31	
p-Terphenyl-d14		75.1	30-130					1/2/19 17:31	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB711 (0-0.5)-1

Sampled: 12/28/2018 09:15

Sample ID: 18L1306-01

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	18	14	mg/Kg dry	1		CTDEP ETPH	1/2/19	1/3/19 13:43	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		82.5	50-150					1/3/19 13:43	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB711 (0-0.5)-1

Sampled: 12/28/2018 09:15

Sample ID: 18L1306-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.2		% Wt	1		SM 2540G	1/4/19	1/4/19 18:26	MAT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB711 (0-0.5)-2

Sampled: 12/28/2018 09:16

Sample ID: 18L1306-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Acenaphthylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Benzo(a)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Benzo(a)pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Benzo(b)fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Benzo(g,h,i)perylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Benzo(k)fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Chrysene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Dibenz(a,h)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Fluorene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
2-Methylnaphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Naphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Phenanthrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 17:59	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		71.7	30-130					1/2/19 17:59	
2-Fluorobiphenyl		72.1	30-130					1/2/19 17:59	
p-Terphenyl-d14		76.2	30-130					1/2/19 17:59	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB711 (0-0.5)-2

Sampled: 12/28/2018 09:16

Sample ID: 18L1306-02

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	40	14	mg/Kg dry	1		CTDEP ETPH	1/2/19	1/3/19 14:43	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		85.8	50-150					1/3/19 14:43	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB711 (0-0.5)-2

Sampled: 12/28/2018 09:16

Sample ID: 18L1306-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.0		% Wt	1		SM 2540G	1/4/19	1/4/19 18:26	MAT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C12-SB712 (0-0.5)-1

Sampled: 12/28/2018 09:30

Sample ID: 18L1306-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:27	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		75.3	30-130					1/2/19 18:27	
2-Fluorobiphenyl		72.7	30-130					1/2/19 18:27	
p-Terphenyl-d14		74.9	30-130					1/2/19 18:27	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C12-SB712 (0-0.5)-1

Sampled: 12/28/2018 09:30

Sample ID: 18L1306-03

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	40	12	mg/Kg dry	1		CTDEP ETPH	1/2/19	1/3/19 15:03	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		82.7	50-150					1/3/19 15:03	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C12-SB712 (0-0.5)-1

Sampled: 12/28/2018 09:30

Sample ID: 18L1306-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	1/4/19	1/4/19 18:26	MAT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB713 (0-0.5)-1

Sampled: 12/28/2018 09:45

Sample ID: 18L1306-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Benzo(b)fluoranthene	0.25	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Fluoranthene	0.34	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Pyrene	0.29	0.21	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 18:55	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		79.8	30-130					1/2/19 18:55	
2-Fluorobiphenyl		77.9	30-130					1/2/19 18:55	
p-Terphenyl-d14		81.6	30-130					1/2/19 18:55	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB713 (0-0.5)-1

Sampled: 12/28/2018 09:45

Sample ID: 18L1306-04

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	130	mg/Kg dry	10		CTDEP ETPH	1/2/19	1/3/19 15:43	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		89.7	50-150					1/3/19 15:43	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C11-SB713 (0-0.5)-1

Sampled: 12/28/2018 09:45

Sample ID: 18L1306-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.0		% Wt	1		SM 2540G	1/4/19	1/4/19 18:26	MAT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C12-SB714 (0-0.5)-1

Sampled: 12/28/2018 10:00

Sample ID: 18L1306-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Chrysene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Phenanthrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	12/29/18	1/2/19 19:23	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		80.3	30-130					1/2/19 19:23	
2-Fluorobiphenyl		78.4	30-130					1/2/19 19:23	
p-Terphenyl-d14		80.9	30-130					1/2/19 19:23	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C12-SB714 (0-0.5)-1

Sampled: 12/28/2018 10:00

Sample ID: 18L1306-05

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	44	13	mg/Kg dry	1		CTDEP ETPH	1/2/19	1/3/19 15:23	KLB
<b>Surrogates</b>		<b>% Recovery</b>	<b>Recovery Limits</b>		<b>Flag/Qual</b>				
2-Fluorobiphenyl		89.8	50-150					1/3/19 15:23	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: C12-SB714 (0-0.5)-1

Sampled: 12/28/2018 10:00

Sample ID: 18L1306-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	1/4/19	1/4/19 18:26	MAT

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT  
 Date Received: 12/28/2018  
 Field Sample #: D31-SB633 (0-1)-1  
 Sample ID: 18L1306-06  
 Sample Matrix: Soil  
 Sample Flags: DL-03

Sample Description:  
 Sampled: 12/28/2018 11:30

Work Order: 18L1306

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.33	0.018	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Aldrin [1]	ND	0.084	0.0050	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
alpha-BHC [1]	ND	0.084	0.0067	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
beta-BHC [1]	ND	0.084	0.0084	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
delta-BHC [1]	ND	0.084	0.0067	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
gamma-BHC (Lindane) [1]	ND	0.033	0.0084	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Chlordane [1]	ND	0.33	0.097	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
4,4'-DDD [1]	ND	0.067	0.0067	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
4,4'-DDE [1]	0.028	0.067	0.0050	mg/Kg dry	10	J	SW-846 8081B	12/29/18	1/4/19 1:21	PJG
4,4'-DDT [1]	0.14	0.067	0.0067	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Dieldrin [1]	ND	0.067	0.0050	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Endosulfan I [1]	ND	0.084	0.0067	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Endosulfan II [1]	ND	0.13	0.0050	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Endosulfan sulfate [2]	0.029	0.13	0.022	mg/Kg dry	10	J	SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Endrin [1]	ND	0.13	0.0050	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Endrin aldehyde [1]	ND	0.13	0.020	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Endrin ketone [1]	ND	0.13	0.0067	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Heptachlor [1]	ND	0.084	0.0084	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Heptachlor epoxide [1]	ND	0.084	0.0067	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Hexachlorobenzene [1]	ND	0.10	0.012	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Methoxychlor [1]	ND	0.84	0.010	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Toxaphene [1]	ND	1.7	0.72	mg/Kg dry	10		SW-846 8081B	12/29/18	1/4/19 1:21	PJG
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]		77.4	30-150						1/4/19 1:21	
Decachlorobiphenyl [2]		104	30-150						1/4/19 1:21	
Tetrachloro-m-xylene [1]		55.7	30-150						1/4/19 1:21	
Tetrachloro-m-xylene [2]		43.0	30-150						1/4/19 1:21	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: D31-SB633 (0-1)-1

Sampled: 12/28/2018 11:30

Sample ID: 18L1306-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	54.9		% Wt	1		SM 2540G	1/4/19	1/4/19 18:27	MAT

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: E31-SB634 (0-1)-1

Sampled: 12/28/2018 12:00

Sample ID: 18L1306-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.028	0.0015	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Aldrin [1]	ND	0.0070	0.00042	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
alpha-BHC [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
beta-BHC [1]	ND	0.0070	0.00070	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
delta-BHC [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
gamma-BHC (Lindane) [1]	ND	0.0028	0.00070	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Chlordane [1]	ND	0.028	0.0081	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
4,4'-DDD [1]	ND	0.0056	0.00056	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
4,4'-DDE [1]	0.023	0.0056	0.00042	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
4,4'-DDT [1]	0.026	0.0056	0.00056	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Dieldrin [1]	ND	0.0056	0.00042	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Endosulfan I [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Endosulfan II [1]	ND	0.011	0.00042	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Endosulfan sulfate [1]	0.0028	0.011	0.0018	mg/Kg dry	1	J	SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Endrin [1]	ND	0.011	0.00042	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Endrin aldehyde [1]	ND	0.011	0.0017	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Endrin ketone [1]	ND	0.011	0.00056	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Heptachlor [1]	ND	0.0070	0.00070	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Heptachlor epoxide [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Hexachlorobenzene [1]	ND	0.0084	0.00098	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Methoxychlor [1]	ND	0.070	0.00084	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Toxaphene [1]	ND	0.14	0.060	mg/Kg dry	1		SW-846 8081B	12/29/18	1/4/19 1:48	PJG
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]		92.7	30-150						1/4/19 1:48	
Decachlorobiphenyl [2]		87.6	30-150						1/4/19 1:48	
Tetrachloro-m-xylene [1]		87.4	30-150						1/4/19 1:48	
Tetrachloro-m-xylene [2]		70.1	30-150						1/4/19 1:48	

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Project Location: Greenwich, CT

Sample Description:

Work Order: 18L1306

Date Received: 12/28/2018

Field Sample #: E31-SB634 (0-1)-1

Sampled: 12/28/2018 12:00

Sample ID: 18L1306-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.5		% Wt	1		SM 2540G	1/4/19	1/4/19 18:27	MAT

**Sample Extraction Data**

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18L1306-01 [C11-SB711 (0-0.5)-1]	B220373	30.2	1.00	01/02/19
18L1306-02 [C11-SB711 (0-0.5)-2]	B220373	30.3	1.00	01/02/19
18L1306-03 [C12-SB712 (0-0.5)-1]	B220373	30.2	1.00	01/02/19
18L1306-04 [C11-SB713 (0-0.5)-1]	B220373	30.0	1.00	01/02/19
18L1306-05 [C12-SB714 (0-0.5)-1]	B220373	30.0	1.00	01/02/19

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18L1306-01 [C11-SB711 (0-0.5)-1]	B220533	01/04/19
18L1306-02 [C11-SB711 (0-0.5)-2]	B220533	01/04/19
18L1306-03 [C12-SB712 (0-0.5)-1]	B220533	01/04/19
18L1306-04 [C11-SB713 (0-0.5)-1]	B220533	01/04/19
18L1306-05 [C12-SB714 (0-0.5)-1]	B220533	01/04/19
18L1306-06 [D31-SB633 (0-1)-1]	B220533	01/04/19
18L1306-07 [E31-SB634 (0-1)-1]	B220533	01/04/19

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18L1306-06 [D31-SB633 (0-1)-1]	B220242	10.9	10.0	12/29/18
18L1306-07 [E31-SB634 (0-1)-1]	B220242	10.6	10.0	12/29/18

**Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18L1306-01 [C11-SB711 (0-0.5)-1]	B220245	30.2	1.00	12/29/18
18L1306-02 [C11-SB711 (0-0.5)-2]	B220245	30.0	1.00	12/29/18
18L1306-03 [C12-SB712 (0-0.5)-1]	B220245	30.4	1.00	12/29/18
18L1306-04 [C11-SB713 (0-0.5)-1]	B220245	30.5	1.00	12/29/18
18L1306-05 [C12-SB714 (0-0.5)-1]	B220245	30.6	1.00	12/29/18

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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
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**Batch B220245 - SW-846 3546**

**Blank (B220245-BLK1)**

Prepared: 12/29/18 Analyzed: 01/02/19

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	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							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.04		mg/Kg wet	3.33		91.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.91		mg/Kg wet	3.33		87.2	30-130			
Surrogate: p-Terphenyl-d14	3.49		mg/Kg wet	3.33		105	30-130			

**LCS (B220245-BS1)**

Prepared: 12/29/18 Analyzed: 01/02/19

Acenaphthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Anthracene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140			
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
Chrysene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140			
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140			
Naphthalene	0.992	0.17	mg/Kg wet	1.67		59.5	40-140			
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
Surrogate: Nitrobenzene-d5	2.49		mg/Kg wet	3.33		74.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.1	30-130			
Surrogate: p-Terphenyl-d14	2.64		mg/Kg wet	3.33		79.1	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
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**Batch B220245 - SW-846 3546**

**LCS Dup (B220245-BSD1)**

Prepared: 12/29/18 Analyzed: 01/02/19

Acenaphthene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	0.163	30	
Acenaphthylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	1.02	30	
Anthracene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	1.45	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	3.62	30	
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	1.76	30	
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	1.54	30	
Benzo(g,h,i)perylene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	1.86	30	
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	0.969	30	
Chrysene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	1.02	30	
Dibenz(a,h)anthracene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	2.55	30	
Fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	2.63	30	
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140	0.533	30	
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	2.39	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	3.49	30	
Naphthalene	0.909	0.17	mg/Kg wet	1.67		54.5	40-140	8.77	30	
Phenanthrene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140	1.87	30	
Pyrene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	0.323	30	
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.34		mg/Kg wet	3.33		70.3	30-130			
Surrogate: p-Terphenyl-d14	2.63		mg/Kg wet	3.33		79.0	30-130			

**Matrix Spike (B220245-MS1)**

**Source: 18L1306-03**

Prepared: 12/29/18 Analyzed: 01/02/19

Acenaphthene	1.32	0.21	mg/Kg dry	2.07	ND	63.9	40-140			
Acenaphthylene	1.37	0.21	mg/Kg dry	2.07	ND	66.3	40-140			
Anthracene	1.46	0.21	mg/Kg dry	2.07	ND	70.7	40-140			
Benzo(a)anthracene	1.55	0.21	mg/Kg dry	2.07	0.0612	71.9	40-140			
Benzo(a)pyrene	1.59	0.21	mg/Kg dry	2.07	0.0690	73.6	40-140			
Benzo(b)fluoranthene	1.57	0.21	mg/Kg dry	2.07	0.102	70.9	40-140			
Benzo(g,h,i)perylene	1.36	0.21	mg/Kg dry	2.07	ND	65.5	40-140			
Benzo(k)fluoranthene	1.60	0.21	mg/Kg dry	2.07	ND	77.3	40-140			
Chrysene	1.47	0.21	mg/Kg dry	2.07	0.0748	67.3	40-140			
Dibenz(a,h)anthracene	1.28	0.21	mg/Kg dry	2.07	ND	62.0	40-140			
Fluoranthene	1.67	0.21	mg/Kg dry	2.07	0.121	75.0	40-140			
Fluorene	1.39	0.21	mg/Kg dry	2.07	ND	67.3	40-140			
Indeno(1,2,3-cd)pyrene	1.32	0.21	mg/Kg dry	2.07	ND	64.0	40-140			
2-Methylnaphthalene	1.39	0.21	mg/Kg dry	2.07	ND	67.3	40-140			
Naphthalene	1.27	0.21	mg/Kg dry	2.07	ND	61.5	40-140			
Phenanthrene	1.52	0.21	mg/Kg dry	2.07	ND	73.7	40-140			
Pyrene	1.53	0.21	mg/Kg dry	2.07	0.110	68.7	40-140			
Surrogate: Nitrobenzene-d5	3.08		mg/Kg dry	4.14		74.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.06		mg/Kg dry	4.14		74.1	30-130			
Surrogate: p-Terphenyl-d14	3.11		mg/Kg dry	4.14		75.1	30-130			

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**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
<b>Batch B220245 - SW-846 3546</b>										
<b>Matrix Spike Dup (B220245-MSD1)</b>	<b>Source: 18L1306-03</b>			Prepared: 12/29/18 Analyzed: 01/02/19						
Acenaphthene	1.28	0.21	mg/Kg dry	2.06	ND	62.3	40-140	2.96	30	
Acenaphthylene	1.34	0.21	mg/Kg dry	2.06	ND	64.9	40-140	2.46	30	
Anthracene	1.40	0.21	mg/Kg dry	2.06	ND	67.7	40-140	4.63	30	
Benzo(a)anthracene	1.46	0.21	mg/Kg dry	2.06	0.0612	67.7	40-140	6.13	30	
Benzo(a)pyrene	1.51	0.21	mg/Kg dry	2.06	0.0690	70.0	40-140	5.15	30	
Benzo(b)fluoranthene	1.51	0.21	mg/Kg dry	2.06	0.102	68.1	40-140	4.12	30	
Benzo(g,h,i)perylene	1.28	0.21	mg/Kg dry	2.06	ND	61.9	40-140	6.08	30	
Benzo(k)fluoranthene	1.53	0.21	mg/Kg dry	2.06	ND	74.0	40-140	4.67	30	
Chrysene	1.39	0.21	mg/Kg dry	2.06	0.0748	63.6	40-140	5.69	30	
Dibenz(a,h)anthracene	1.23	0.21	mg/Kg dry	2.06	ND	59.8	40-140	4.01	30	
Fluoranthene	1.56	0.21	mg/Kg dry	2.06	0.121	69.9	40-140	6.77	30	
Fluorene	1.37	0.21	mg/Kg dry	2.06	ND	66.5	40-140	1.53	30	
Indeno(1,2,3-cd)pyrene	1.26	0.21	mg/Kg dry	2.06	ND	60.9	40-140	5.36	30	
2-Methylnaphthalene	1.36	0.21	mg/Kg dry	2.06	ND	66.2	40-140	1.92	30	
Naphthalene	1.27	0.21	mg/Kg dry	2.06	ND	61.8	40-140	0.0263	30	
Phenanthrene	1.46	0.21	mg/Kg dry	2.06	ND	70.6	40-140	4.60	30	
Pyrene	1.41	0.21	mg/Kg dry	2.06	0.110	63.2	40-140	7.94	30	
Surrogate: Nitrobenzene-d5	3.10		mg/Kg dry	4.12		75.3	30-130			
Surrogate: 2-Fluorobiphenyl	3.02		mg/Kg dry	4.12		73.3	30-130			
Surrogate: p-Terphenyl-d14	2.96		mg/Kg dry	4.12		71.9	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
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Batch B220242 - SW-846 3546

Blank (B220242-BLK1)

Prepared: 12/29/18 Analyzed: 01/03/19

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.139		mg/Kg wet	0.200		69.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.131		mg/Kg wet	0.200		65.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.109		mg/Kg wet	0.200		54.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0906		mg/Kg wet	0.200		45.3	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
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Batch B220242 - SW-846 3546

LCS (B220242-BS1)

Prepared: 12/29/18 Analyzed: 01/03/19

alpha-Chlordane	0.077	0.0050	mg/Kg wet	0.100		77.1	40-140			
alpha-Chlordane [2C]	0.074	0.0050	mg/Kg wet	0.100		74.2	40-140			
gamma-Chlordane	0.074	0.0050	mg/Kg wet	0.100		73.8	40-140			
gamma-Chlordane [2C]	0.074	0.0050	mg/Kg wet	0.100		74.2	40-140			
Alachlor	0.072	0.020	mg/Kg wet	0.100		71.7	40-140			
Alachlor [2C]	0.066	0.020	mg/Kg wet	0.100		65.6	40-140			
Aldrin	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140			
Aldrin [2C]	0.072	0.0050	mg/Kg wet	0.100		72.1	40-140			
alpha-BHC	0.071	0.0050	mg/Kg wet	0.100		71.2	40-140			
alpha-BHC [2C]	0.062	0.0050	mg/Kg wet	0.100		61.5	40-140			
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		79.1	40-140			
beta-BHC [2C]	0.061	0.0050	mg/Kg wet	0.100		60.9	40-140			
delta-BHC	0.044	0.0050	mg/Kg wet	0.100		44.2	40-140			
delta-BHC [2C]	0.042	0.0050	mg/Kg wet	0.100		41.7	40-140			
gamma-BHC (Lindane)	0.076	0.0020	mg/Kg wet	0.100		75.8	40-140			V-06
gamma-BHC (Lindane) [2C]	0.066	0.0020	mg/Kg wet	0.100		65.9	40-140			
4,4'-DDD	0.086	0.0040	mg/Kg wet	0.100		86.0	40-140			
4,4'-DDD [2C]	0.083	0.0040	mg/Kg wet	0.100		82.8	40-140			
4,4'-DDE	0.084	0.0040	mg/Kg wet	0.100		84.2	40-140			
4,4'-DDE [2C]	0.080	0.0040	mg/Kg wet	0.100		79.8	40-140			
4,4'-DDT	0.089	0.0040	mg/Kg wet	0.100		88.6	40-140			
4,4'-DDT [2C]	0.069	0.0040	mg/Kg wet	0.100		68.9	40-140			
Dieldrin	0.081	0.0040	mg/Kg wet	0.100		80.7	40-140			
Dieldrin [2C]	0.077	0.0040	mg/Kg wet	0.100		77.0	40-140			
Endosulfan I	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140			
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		79.9	40-140			
Endosulfan II	0.083	0.0080	mg/Kg wet	0.100		83.0	40-140			
Endosulfan II [2C]	0.080	0.0080	mg/Kg wet	0.100		79.5	40-140			
Endosulfan Sulfate	0.080	0.0080	mg/Kg wet	0.100		80.1	40-140			
Endosulfan Sulfate [2C]	0.076	0.0080	mg/Kg wet	0.100		76.3	40-140			
Endrin	0.082	0.0080	mg/Kg wet	0.100		81.6	40-140			
Endrin [2C]	0.078	0.0080	mg/Kg wet	0.100		77.7	40-140			
Endrin Aldehyde	0.082	0.0080	mg/Kg wet	0.100		81.6	40-140			
Endrin Aldehyde [2C]	0.076	0.0080	mg/Kg wet	0.100		75.6	40-140			
Endrin Ketone	0.085	0.0080	mg/Kg wet	0.100		85.3	40-140			
Endrin Ketone [2C]	0.075	0.0080	mg/Kg wet	0.100		75.3	40-140			
Heptachlor	0.058	0.0050	mg/Kg wet	0.100		58.3	40-140			
Heptachlor [2C]	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140			
Heptachlor Epoxide	0.078	0.0050	mg/Kg wet	0.100		78.5	40-140			
Heptachlor Epoxide [2C]	0.072	0.0050	mg/Kg wet	0.100		72.3	40-140			
Hexachlorobenzene	0.074	0.0060	mg/Kg wet	0.100		74.3	40-140			
Hexachlorobenzene [2C]	0.063	0.0060	mg/Kg wet	0.100		62.5	40-140			
Methoxychlor	0.085	0.050	mg/Kg wet	0.100		85.3	40-140			
Methoxychlor [2C]	0.082	0.050	mg/Kg wet	0.100		82.3	40-140			
Surrogate: Decachlorobiphenyl	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.153		mg/Kg wet	0.200		76.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.140		mg/Kg wet	0.200		70.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.107		mg/Kg wet	0.200		53.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B220242 - SW-846 3546

LCS Dup (B220242-BSD1)

Prepared: 12/29/18 Analyzed: 01/03/19

alpha-Chlordane	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140	3.22	30	
alpha-Chlordane [2C]	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	4.09	30	
gamma-Chlordane	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140	2.93	30	
gamma-Chlordane [2C]	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140	4.07	30	
Alachlor	0.069	0.020	mg/Kg wet	0.100		68.7	40-140	4.19	30	
Alachlor [2C]	0.068	0.020	mg/Kg wet	0.100		68.1	40-140	3.84	30	
Aldrin	0.078	0.0050	mg/Kg wet	0.100		78.1	40-140	0.982	30	
Aldrin [2C]	0.075	0.0050	mg/Kg wet	0.100		74.8	40-140	3.61	30	
alpha-BHC	0.075	0.0050	mg/Kg wet	0.100		74.7	40-140	4.78	30	
alpha-BHC [2C]	0.065	0.0050	mg/Kg wet	0.100		64.7	40-140	4.99	30	
beta-BHC	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140	2.26	30	
beta-BHC [2C]	0.062	0.0050	mg/Kg wet	0.100		62.4	40-140	2.58	30	
delta-BHC	0.047	0.0050	mg/Kg wet	0.100		46.6	40-140	5.23	30	
delta-BHC [2C]	0.045	0.0050	mg/Kg wet	0.100		45.0	40-140	7.66	30	
gamma-BHC (Lindane)	0.078	0.0020	mg/Kg wet	0.100		77.5	40-140	2.24	30	V-06
gamma-BHC (Lindane) [2C]	0.069	0.0020	mg/Kg wet	0.100		69.1	40-140	4.83	30	
4,4'-DDD	0.089	0.0040	mg/Kg wet	0.100		89.1	40-140	3.51	30	
4,4'-DDD [2C]	0.086	0.0040	mg/Kg wet	0.100		85.8	40-140	3.51	30	
4,4'-DDE	0.087	0.0040	mg/Kg wet	0.100		87.2	40-140	3.43	30	
4,4'-DDE [2C]	0.082	0.0040	mg/Kg wet	0.100		82.2	40-140	2.98	30	
4,4'-DDT	0.091	0.0040	mg/Kg wet	0.100		91.3	40-140	2.97	30	
4,4'-DDT [2C]	0.070	0.0040	mg/Kg wet	0.100		69.9	40-140	1.47	30	
Dieldrin	0.084	0.0040	mg/Kg wet	0.100		84.0	40-140	4.03	30	
Dieldrin [2C]	0.080	0.0040	mg/Kg wet	0.100		80.1	40-140	3.94	30	
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		82.0	40-140	3.33	30	
Endosulfan I [2C]	0.083	0.0050	mg/Kg wet	0.100		83.4	40-140	4.27	30	
Endosulfan II	0.086	0.0080	mg/Kg wet	0.100		85.9	40-140	3.50	30	
Endosulfan II [2C]	0.082	0.0080	mg/Kg wet	0.100		82.4	40-140	3.52	30	
Endosulfan Sulfate	0.083	0.0080	mg/Kg wet	0.100		82.5	40-140	3.05	30	
Endosulfan Sulfate [2C]	0.079	0.0080	mg/Kg wet	0.100		78.8	40-140	3.28	30	
Endrin	0.084	0.0080	mg/Kg wet	0.100		84.1	40-140	3.04	30	
Endrin [2C]	0.081	0.0080	mg/Kg wet	0.100		80.6	40-140	3.66	30	
Endrin Aldehyde	0.080	0.0080	mg/Kg wet	0.100		80.1	40-140	1.85	30	
Endrin Aldehyde [2C]	0.075	0.0080	mg/Kg wet	0.100		75.0	40-140	0.836	30	
Endrin Ketone	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140	3.29	30	
Endrin Ketone [2C]	0.077	0.0080	mg/Kg wet	0.100		76.5	40-140	1.53	30	
Heptachlor	0.059	0.0050	mg/Kg wet	0.100		58.9	40-140	0.945	30	
Heptachlor [2C]	0.079	0.0050	mg/Kg wet	0.100		78.6	40-140	4.62	30	
Heptachlor Epoxide	0.081	0.0050	mg/Kg wet	0.100		80.7	40-140	2.84	30	
Heptachlor Epoxide [2C]	0.076	0.0050	mg/Kg wet	0.100		75.6	40-140	4.44	30	
Hexachlorobenzene	0.076	0.0060	mg/Kg wet	0.100		76.3	40-140	2.74	30	
Hexachlorobenzene [2C]	0.066	0.0060	mg/Kg wet	0.100		65.6	40-140	4.78	30	
Methoxychlor	0.088	0.050	mg/Kg wet	0.100		87.7	40-140	2.76	30	
Methoxychlor [2C]	0.085	0.050	mg/Kg wet	0.100		84.7	40-140	2.81	30	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.155		mg/Kg wet	0.200		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.143		mg/Kg wet	0.200		71.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.116		mg/Kg wet	0.200		57.9	30-150			

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
<b>Batch B220242 - SW-846 3546</b>										
<b>Matrix Spike (B220242-MS1)</b>	<b>Source: 18L1306-06</b>			Prepared: 12/29/18 Analyzed: 01/04/19						
Alachlor	0.16	0.36	mg/Kg dry	0.182	ND	88.3	30-150			J
Alachlor [2C]	0.15	0.36	mg/Kg dry	0.182	ND	79.7	30-150			J
Aldrin	0.12	0.091	mg/Kg dry	0.182	ND	63.2	30-150			
Aldrin [2C]	0.10	0.091	mg/Kg dry	0.182	ND	57.0	30-150			
alpha-BHC	0.13	0.091	mg/Kg dry	0.182	ND	69.0	30-150			V-06
alpha-BHC [2C]	0.11	0.091	mg/Kg dry	0.182	ND	57.8	30-150			
beta-BHC	0.11	0.091	mg/Kg dry	0.182	ND	62.8	30-150			V-06
beta-BHC [2C]	0.10	0.091	mg/Kg dry	0.182	ND	54.8	30-150			
delta-BHC	0.12	0.091	mg/Kg dry	0.182	ND	64.6	30-150			
delta-BHC [2C]	0.11	0.091	mg/Kg dry	0.182	ND	58.5	30-150			
gamma-BHC (Lindane)	0.13	0.036	mg/Kg dry	0.182	ND	71.4	30-150			V-06
gamma-BHC (Lindane) [2C]	0.12	0.036	mg/Kg dry	0.182	ND	66.8	30-150			
4,4'-DDD	0.11	0.073	mg/Kg dry	0.182	ND	62.9	30-150			
4,4'-DDD [2C]	0.12	0.073	mg/Kg dry	0.182	ND	64.3	30-150			
4,4'-DDE	0.14	0.073	mg/Kg dry	0.182	0.028	60.1	30-150			
4,4'-DDE [2C]	0.13	0.073	mg/Kg dry	0.182	0.021	62.1	30-150			
4,4'-DDT	0.28	0.073	mg/Kg dry	0.182	0.14	77.0	30-150			
4,4'-DDT [2C]	0.22	0.073	mg/Kg dry	0.182	0.11	56.8	30-150			
Dieldrin	0.12	0.073	mg/Kg dry	0.182	ND	66.7	30-150			
Dieldrin [2C]	0.13	0.073	mg/Kg dry	0.182	ND	68.8	30-150			
Endosulfan I	0.13	0.091	mg/Kg dry	0.182	ND	73.7	30-150			
Endosulfan I [2C]	0.12	0.091	mg/Kg dry	0.182	ND	65.2	30-150			
Endosulfan II	0.12	0.15	mg/Kg dry	0.182	ND	67.2	30-150			J
Endosulfan II [2C]	0.15	0.15	mg/Kg dry	0.182	ND	82.9	30-150			
Endosulfan Sulfate	0.15	0.15	mg/Kg dry	0.182	0.024	70.4	30-150			
Endosulfan Sulfate [2C]	0.13	0.15	mg/Kg dry	0.182	0.029	58.3	30-150			J
Endrin	0.14	0.15	mg/Kg dry	0.182	ND	78.6	30-150			J
Endrin [2C]	0.11	0.15	mg/Kg dry	0.182	ND	59.4	30-150			J
Endrin Aldehyde	0.13	0.15	mg/Kg dry	0.182	ND	73.0	30-150			J
Endrin Aldehyde [2C]	0.12	0.15	mg/Kg dry	0.182	ND	64.9	30-150			J
Endrin Ketone	0.15	0.15	mg/Kg dry	0.182	ND	84.4	30-150			
Endrin Ketone [2C]	0.13	0.15	mg/Kg dry	0.182	ND	74.0	30-150			J
Heptachlor	0.10	0.091	mg/Kg dry	0.182	ND	57.6	30-150			
Heptachlor [2C]	0.12	0.091	mg/Kg dry	0.182	ND	65.2	30-150			
Heptachlor Epoxide	0.13	0.091	mg/Kg dry	0.182	ND	69.3	30-150			
Heptachlor Epoxide [2C]	0.12	0.091	mg/Kg dry	0.182	ND	64.4	30-150			
Hexachlorobenzene	0.13	0.11	mg/Kg dry	0.182	ND	73.0	30-150			
Hexachlorobenzene [2C]	0.11	0.11	mg/Kg dry	0.182	ND	59.3	30-150			J
Methoxychlor	0.15	0.91	mg/Kg dry	0.182	ND	83.9	30-150			J
Methoxychlor [2C]	0.23	0.91	mg/Kg dry	0.182	ND	127	30-150			J
Surrogate: Decachlorobiphenyl	0.300		mg/Kg dry	0.364		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.428		mg/Kg dry	0.364		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.238		mg/Kg dry	0.364		65.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg dry	0.364		50.5	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
<b>Batch B220242 - SW-846 3546</b>										
<b>Matrix Spike Dup (B220242-MSD1)</b>										
		<b>Source: 18L1306-06</b>			Prepared: 12/29/18 Analyzed: 01/04/19					
Alachlor	0.15	0.34	mg/Kg dry	0.169	ND	86.1	30-150	10.2	30	J
Alachlor [2C]	0.13	0.34	mg/Kg dry	0.169	ND	79.6	30-150	7.84	30	J
Aldrin	0.10	0.084	mg/Kg dry	0.169	ND	60.3	30-150	12.4	30	
Aldrin [2C]	0.092	0.084	mg/Kg dry	0.169	ND	54.4	30-150	12.4	30	
alpha-BHC	0.11	0.084	mg/Kg dry	0.169	ND	66.2	30-150	11.8	30	V-06
alpha-BHC [2C]	0.095	0.084	mg/Kg dry	0.169	ND	56.3	30-150	10.3	30	
beta-BHC	0.095	0.084	mg/Kg dry	0.169	ND	56.1	30-150	19.0	30	V-06
beta-BHC [2C]	0.079	0.084	mg/Kg dry	0.169	ND	47.0	30-150	23.0	30	J
delta-BHC	0.098	0.084	mg/Kg dry	0.169	ND	58.3	30-150	18.1	30	
delta-BHC [2C]	0.088	0.084	mg/Kg dry	0.169	ND	52.0	30-150	19.4	30	
gamma-BHC (Lindane)	0.12	0.034	mg/Kg dry	0.169	ND	69.3	30-150	10.6	30	V-06
gamma-BHC (Lindane) [2C]	0.11	0.034	mg/Kg dry	0.169	ND	65.9	30-150	9.09	30	
4,4'-DDD	0.10	0.067	mg/Kg dry	0.169	ND	60.3	30-150	11.9	30	
4,4'-DDD [2C]	0.11	0.067	mg/Kg dry	0.169	ND	63.6	30-150	8.77	30	
4,4'-DDE	0.12	0.067	mg/Kg dry	0.169	0.028	57.4	30-150	9.72	30	
4,4'-DDE [2C]	0.12	0.067	mg/Kg dry	0.169	0.021	58.7	30-150	11.0	30	
4,4'-DDT	0.25	0.067	mg/Kg dry	0.169	0.14	70.7	30-150	7.94	30	
4,4'-DDT [2C]	0.20	0.067	mg/Kg dry	0.169	0.11	52.2	30-150	7.36	30	
Dieldrin	0.11	0.067	mg/Kg dry	0.169	ND	64.4	30-150	11.1	30	
Dieldrin [2C]	0.11	0.067	mg/Kg dry	0.169	ND	67.8	30-150	9.08	30	
Endosulfan I	0.12	0.084	mg/Kg dry	0.169	ND	68.9	30-150	14.5	30	
Endosulfan I [2C]	0.10	0.084	mg/Kg dry	0.169	ND	61.3	30-150	14.0	30	
Endosulfan II	0.11	0.13	mg/Kg dry	0.169	ND	64.3	30-150	12.1	30	J
Endosulfan II [2C]	0.14	0.13	mg/Kg dry	0.169	ND	85.4	30-150	4.72	30	
Endosulfan Sulfate	0.14	0.13	mg/Kg dry	0.169	0.024	66.3	30-150	11.4	30	
Endosulfan Sulfate [2C]	0.14	0.13	mg/Kg dry	0.169	0.029	63.4	30-150	0.569	30	
Endrin	0.13	0.13	mg/Kg dry	0.169	ND	77.7	30-150	8.84	30	J
Endrin [2C]	0.10	0.13	mg/Kg dry	0.169	ND	60.1	30-150	6.52	30	J
Endrin Aldehyde	0.12	0.13	mg/Kg dry	0.169	ND	72.7	30-150	8.10	30	J
Endrin Aldehyde [2C]	0.11	0.13	mg/Kg dry	0.169	ND	63.2	30-150	10.4	30	J
Endrin Ketone	0.14	0.13	mg/Kg dry	0.169	ND	81.7	30-150	10.9	30	
Endrin Ketone [2C]	0.12	0.13	mg/Kg dry	0.169	ND	71.1	30-150	11.6	30	J
Heptachlor	0.092	0.084	mg/Kg dry	0.169	ND	54.6	30-150	13.2	30	
Heptachlor [2C]	0.10	0.084	mg/Kg dry	0.169	ND	62.2	30-150	12.5	30	
Heptachlor Epoxide	0.11	0.084	mg/Kg dry	0.169	ND	67.4	30-150	10.5	30	
Heptachlor Epoxide [2C]	0.11	0.084	mg/Kg dry	0.169	ND	62.5	30-150	10.7	30	
Hexachlorobenzene	0.12	0.10	mg/Kg dry	0.169	ND	71.4	30-150	9.82	30	
Hexachlorobenzene [2C]	0.10	0.10	mg/Kg dry	0.169	ND	59.9	30-150	6.62	30	J
Methoxychlor	0.13	0.84	mg/Kg dry	0.169	ND	75.1	30-150	18.8	30	J
Methoxychlor [2C]	0.21	0.84	mg/Kg dry	0.169	ND	123	30-150	11.6	30	J
Surrogate: Decachlorobiphenyl	0.216		mg/Kg dry	0.337		64.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.355		mg/Kg dry	0.337		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg dry	0.337		61.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg dry	0.337		50.1	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
<b>Batch B220373 - SW-846 3546</b>										
<b>Blank (B220373-BLK1)</b>										
					Prepared: 01/02/19 Analyzed: 01/03/19					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	3.05		mg/Kg wet	3.33		91.6	50-150			
<b>LCS (B220373-BS1)</b>										
					Prepared: 01/02/19 Analyzed: 01/03/19					
CT ETPH	24.9	10	mg/Kg wet	33.3		74.7	60-120			
Surrogate: 2-Fluorobiphenyl	3.12		mg/Kg wet	3.33		93.7	50-150			
<b>LCS Dup (B220373-BSD1)</b>										
					Prepared: 01/02/19 Analyzed: 01/03/19					
CT ETPH	25.0	10	mg/Kg wet	33.3		74.9	60-120	0.306	30	
Surrogate: 2-Fluorobiphenyl	3.12		mg/Kg wet	3.33		93.6	50-150			
<b>Matrix Spike (B220373-MS1)</b>										
			<b>Source: 18L1306-03</b>		Prepared: 01/02/19 Analyzed: 01/03/19					
CT ETPH	54.2	12	mg/Kg dry	41.6	39.9	<b>34.4</b> *	50-150			MS-07A
Surrogate: 2-Fluorobiphenyl	3.45		mg/Kg dry	4.16		82.8	50-150			
<b>Matrix Spike Dup (B220373-MSD1)</b>										
			<b>Source: 18L1306-03</b>		Prepared: 01/02/19 Analyzed: 01/03/19					
CT ETPH	55.3	12	mg/Kg dry	41.6	39.9	<b>37.0</b> *	50-150	2.00	30	MS-07A
Surrogate: 2-Fluorobiphenyl	3.27		mg/Kg dry	4.16		78.5	50-150			

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**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
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**Batch B220533 - % Solids**

**Duplicate (B220533-DUP1)**

**Source: 18L1306-05**

Prepared & Analyzed: 01/04/19

% Solids	76.2		% Wt		76.4			0.280	20	
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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

## BREAKDOWN REPORT

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**Lab Sample ID:** S030957-PEM1 **Analyzed:** 01/03/2019

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 3.02  
Endrin [1] 3.23

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 2.75  
Endrin [2] 3.61

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## BREAKDOWN REPORT

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**Lab Sample ID:** S030957-PEM2 **Analyzed:** 01/03/2019

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 2.46  
Endrin [1] 2.76

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**Column Number:** 2  
**Analyte** **% Breakdown**  
4,4'-DDT [2] 2.27  
Endrin [2] 3.03

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## BREAKDOWN REPORT

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**Lab Sample ID:** S030957-PEM3 **Analyzed:** 01/03/2019

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**Column Number:** 1  
**Analyte** **% Breakdown**  
4,4'-DDT [1] 2.28  
Endrin [1] 3.08

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BREAKDOWN REPORT

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Lab Sample ID: S030957-PEM3 Analyzed: 01/03/2019

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Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.13
Endrin [2]	3.21

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**AOC-8-01-122818-1**

*SW-846 8081B*

Lab Sample ID: 18L1306-06 Date(s) Analyzed 01/04/2019 01/04/2019

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.835	6.807	6.867	0.028	
	2	6.868	6.840	6.900	0.021	28.6
4,4'-DDT	1	7.492	7.462	7.522	0.14	
	2	7.542	7.513	7.573	0.11	24.0
Endosulfan Sulfate	1	8.042	8.014	8.074	0.024	
	2	7.845	7.820	7.880	0.029	18.9

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**AOC-8-02-122818-1**

Lab Sample ID: 18L1306-07 Date(s) Analyzed 01/04/2019 01/04/2019  
 Instrument ID (1): ECD6 Instrument ID (2): ECD6  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.836	6.807	6.867	0.023	
	2	6.869	6.840	6.900	0.022	4.4
4,4'-DDT	1	7.491	7.462	7.522	0.026	
	2	7.543	7.513	7.573	0.019	31.1
Endosulfan Sulfate	1	8.042	8.014	8.074	0.0028	
	2	7.846	7.820	7.880	0.0028	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

<b>LCS</b>
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Lab Sample ID:                     B220242-BS1                          Date(s) Analyzed           01/03/2019                     01/03/2019          

Instrument ID (1):                     ECD6A                          Instrument ID (2):                     ECD6B                    

GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.279	7.249	7.309	0.086	
	2	7.304	7.275	7.335	0.083	3.6
4,4'-DDE	1	6.837	6.807	6.867	0.084	
	2	6.870	6.841	6.901	0.080	4.9
4,4'-DDT	1	7.492	7.463	7.523	0.089	
	2	7.544	7.514	7.574	0.069	25.3
Alachlor	1	6.268	6.239	6.299	0.072	
	2	6.050	6.021	6.081	0.066	8.7
Aldrin	1	6.178	6.148	6.208	0.077	
	2	6.111	6.081	6.141	0.072	6.7
alpha-BHC	1	5.463	5.433	5.493	0.071	
	2	5.405	5.376	5.436	0.062	13.5
alpha-Chlordane	1	6.782	6.752	6.812	0.077	
	2	6.742	6.712	6.772	0.074	4.0
beta-BHC	1	5.715	5.686	5.746	0.079	
	2	5.678	5.647	5.707	0.061	25.7
delta-BHC	1	5.833	5.803	5.863	0.044	
	2	5.863	5.833	5.893	0.042	4.7
Dieldrin	1	7.057	7.027	7.087	0.081	
	2	6.982	6.953	7.013	0.077	5.1
Endosulfan I	1	6.881	6.851	6.911	0.079	
	2	6.782	6.752	6.812	0.080	1.3
Endosulfan II	1	7.396	7.367	7.427	0.083	
	2	7.370	7.340	7.400	0.080	3.7
Endosulfan Sulfate	1	8.045	8.015	8.075	0.080	
	2	7.850	7.821	7.881	0.076	5.1
Endrin	1	7.229	7.200	7.260	0.082	
	2	7.207	7.177	7.237	0.078	5.0
Endrin Aldehyde	1	7.716	7.687	7.747	0.082	
	2	7.632	7.603	7.663	0.076	7.6
Endrin Ketone	1	8.236	8.207	8.267	0.085	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8081B*

Lab Sample ID:                     B220242-BS1                                          Date(s) Analyzed           01/03/2019                     01/03/2019          

Instrument ID (1):                     ECD6A                                          Instrument ID (2):                     ECD6B                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.228	8.198	8.258	0.075	12.5
gamma-BHC (Lindane)	1	5.662	5.633	5.693	0.076	
	2	5.622	5.593	5.653	0.066	14.1
gamma-Chlordane	1	6.686	6.656	6.716	0.074	
	2	6.637	6.607	6.667	0.074	0.0
Heptachlor	1	5.974	5.944	6.004	0.058	
	2	5.899	5.870	5.930	0.075	25.6
Heptachlor Epoxide	1	6.598	6.568	6.628	0.078	
	2	6.505	6.475	6.535	0.072	9.3
Hexachlorobenzene	1	5.359	5.330	5.390	0.074	
	2	5.318	5.289	5.349	0.063	16.1
Methoxychlor	1	7.872	7.842	7.902	0.085	
	2	8.081	8.052	8.112	0.082	3.6

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**LCS Dup**

*SW-846 8081B*

Lab Sample ID:                     B220242-BSD1                          Date(s) Analyzed           01/03/2019                     01/03/2019          

Instrument ID (1):                     ECD6A                          Instrument ID (2):                     ECD6B                    

GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.279	7.249	7.309	0.089	
	2	7.304	7.275	7.335	0.086	3.4
4,4'-DDE	1	6.837	6.807	6.867	0.087	
	2	6.871	6.841	6.901	0.082	5.9
4,4'-DDT	1	7.493	7.463	7.523	0.091	
	2	7.544	7.514	7.574	0.070	26.1
Alachlor	1	6.268	6.239	6.299	0.069	
	2	6.051	6.021	6.081	0.068	1.5
Aldrin	1	6.178	6.148	6.208	0.078	
	2	6.111	6.081	6.141	0.075	3.9
alpha-BHC	1	5.463	5.433	5.493	0.075	
	2	5.405	5.376	5.436	0.065	14.3
alpha-Chlordane	1	6.782	6.752	6.812	0.080	
	2	6.743	6.712	6.772	0.077	3.8
beta-BHC	1	5.716	5.686	5.746	0.081	
	2	5.678	5.647	5.707	0.062	26.6
delta-BHC	1	5.833	5.803	5.863	0.047	
	2	5.863	5.833	5.893	0.045	4.4
Dieldrin	1	7.057	7.027	7.087	0.084	
	2	6.982	6.953	7.013	0.080	4.9
Endosulfan I	1	6.881	6.851	6.911	0.082	
	2	6.782	6.752	6.812	0.083	1.2
Endosulfan II	1	7.396	7.367	7.427	0.086	
	2	7.369	7.340	7.400	0.082	4.8
Endosulfan Sulfate	1	8.045	8.015	8.075	0.083	
	2	7.850	7.821	7.881	0.079	4.9
Endrin	1	7.230	7.200	7.260	0.084	
	2	7.207	7.177	7.237	0.081	3.6
Endrin Aldehyde	1	7.716	7.687	7.747	0.080	
	2	7.632	7.603	7.663	0.075	6.5
Endrin Ketone	1	8.236	8.207	8.267	0.088	



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**Matrix Spike**

Lab Sample ID:                     B220242-MS1                          Date(s) Analyzed           01/04/2019                     01/04/2019            
 Instrument ID (1):                     ECD6A                          Instrument ID (2):                     ECD6B                      
 GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.278	7.248	7.308	0.11	
	2	7.303	7.274	7.334	0.12	0.0
4,4'-DDE	1	6.836	6.807	6.867	0.14	
	2	6.870	6.840	6.900	0.13	7.4
4,4'-DDT	1	7.491	7.462	7.522	0.28	
	2	7.543	7.513	7.573	0.22	24.0
Alachlor	1	6.268	6.238	6.298	0.16	
	2	6.049	6.020	6.080	0.15	6.5
Aldrin	1	6.176	6.147	6.207	0.12	
	2	6.110	6.080	6.140	0.10	18.2
alpha-BHC	1	5.462	5.433	5.493	0.13	
	2	5.404	5.375	5.435	0.11	16.7
beta-BHC	1	5.715	5.686	5.746	0.11	
	2	5.675	5.646	5.706	0.10	9.5
delta-BHC	1	5.831	5.802	5.862	0.12	
	2	5.861	5.832	5.892	0.11	8.7
Dieldrin	1	7.055	7.026	7.086	0.12	
	2	6.980	6.951	7.011	0.13	8.0
Endosulfan I	1	6.880	6.850	6.910	0.13	
	2	6.780	6.751	6.811	0.12	8.0
Endosulfan II	1	7.396	7.366	7.426	0.12	
	2	7.369	7.339	7.399	0.15	22.2
Endosulfan Sulfate	1	8.043	8.014	8.074	0.15	
	2	7.848	7.820	7.880	0.13	14.3
Endrin	1	7.229	7.199	7.259	0.14	
	2	7.206	7.177	7.237	0.11	24.0
Endrin Aldehyde	1	7.714	7.685	7.745	0.13	
	2	7.631	7.602	7.662	0.12	8.0
Endrin Ketone	1	8.234	8.206	8.266	0.15	
	2	8.226	8.197	8.257	0.13	14.3
gamma-BHC (Lindane)	1	5.662	5.633	5.693	0.13	



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**Matrix Spike Dup**

Lab Sample ID: B220242-MSD1 Date(s) Analyzed 01/04/2019 01/04/2019  
 Instrument ID (1): ECD6A Instrument ID (2): ECD6B  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.276	7.248	7.308	0.10	
	2	7.303	7.274	7.334	0.11	9.5
4,4'-DDE	1	6.835	6.807	6.867	0.12	
	2	6.869	6.840	6.900	0.12	8.0
4,4'-DDT	1	7.491	7.462	7.522	0.25	
	2	7.543	7.513	7.573	0.20	26.1
Alachlor	1	6.267	6.238	6.298	0.15	
	2	6.050	6.020	6.080	0.13	14.3
Aldrin	1	6.176	6.147	6.207	0.10	
	2	6.110	6.080	6.140	0.092	8.3
alpha-BHC	1	5.462	5.433	5.493	0.11	
	2	5.404	5.375	5.435	0.095	14.6
beta-BHC	1	5.715	5.686	5.746	0.095	
	2	5.675	5.646	5.706	0.079	18.4
delta-BHC	1	5.830	5.802	5.862	0.098	
	2	5.861	5.832	5.892	0.088	10.8
Dieldrin	1	7.055	7.026	7.086	0.11	
	2	6.980	6.951	7.011	0.11	0.0
Endosulfan I	1	6.879	6.850	6.910	0.12	
	2	6.781	6.751	6.811	0.10	18.2
Endosulfan II	1	7.394	7.366	7.426	0.11	
	2	7.369	7.339	7.399	0.14	24.0
Endosulfan Sulfate	1	8.042	8.014	8.074	0.14	
	2	7.848	7.820	7.880	0.14	0.0
Endrin	1	7.227	7.199	7.259	0.13	
	2	7.206	7.177	7.237	0.10	26.1
Endrin Aldehyde	1	7.714	7.685	7.745	0.12	
	2	7.630	7.602	7.662	0.11	8.7
Endrin Ketone	1	8.234	8.206	8.266	0.14	
	2	8.226	8.197	8.257	0.12	15.4
gamma-BHC (Lindane)	1	5.661	5.633	5.693	0.12	



**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>CTDEP ETPH in Water</b>	
CT ETPH	CT
<b>SW-846 8081B in Soil</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 8081B in Soil</b>	
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b>SW-846 8081B in Water</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



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 Fax: 413-525-6405  
 Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1\_03242017

39 Spruce Street  
 East Longmeadow, MA 01028

Page 1 of 1

Company Name: **AECOM**  
 Address: 500 Enterprise Drive, Rocky Hill, CT  
 Phone: 860-263-5800  
 Project Name: **Greenwich High School**  
 Project Location: **Greenwich, CT**  
 Project Number: **60432356**  
 Project Manager: **Matt Rood**  
 Con-Test Quote Name/Number: **Matt Rood**  
 Invoice Recipient: **Matt Rood**  
 Sampled By: **J. Mabee, C. Santos**

Requested Turnaround Time  
 7-Day  10-Day   
 Due Date: \_\_\_\_\_  
 Rush Approval Required  
 1-Day  3-Day   
 2-Day  4-Day   
 Data Delivery  
 Format:  PDF  EXCEL   
 Other:  Equis  
 CLP Like Data Pkg Required:   
 Email To: **Matthew.Rood@aecom.com**  
 Fax To #: \_\_\_\_\_

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	AOC-13-14-01-1	9/15/18	12/28/18		X	S	U
2	AOC-13-14-01-2	9/16/18	12/28/18		X	S	U
3	AOC-13-14-02-1	9/30/18	12/28/18		X	S	U
4	AOC-13-14-03-1	9/45/18	12/28/18		X	S	U
5	AOC-13-14-04-1	10/20/18	12/28/18		X	S	U
6	AOC-8-01-122818-1	12/28/18	12/28/18		X	S	U
7	AOC-8-02-122818-1	12/29/18	12/29/18		X	S	U

ANALYSIS REQUESTED

Matrix Code	Conc Code	Field Filtered	Lab to Filter
1	U	<input type="checkbox"/>	<input type="checkbox"/>
2	U	<input type="checkbox"/>	<input type="checkbox"/>
3	U	<input type="checkbox"/>	<input type="checkbox"/>
4	U	<input type="checkbox"/>	<input type="checkbox"/>
5	U	<input type="checkbox"/>	<input type="checkbox"/>
6	U	<input type="checkbox"/>	<input type="checkbox"/>
7	U	<input type="checkbox"/>	<input type="checkbox"/>

1 Matrix Codes:  
 GW = Ground Water  
 WW = Waste Water  
 DW = Drinking Water  
 A = Air  
 S = Soil  
 SL = Sludge  
 SOL = Solid  
 O = Other (please define)

2 Preservation Codes:  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium Bisulfate  
 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
 O = Other (please define)

3 Container Codes:  
 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define)

Comments: 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: 12/28/18 15:30  
 Received by: (signature) \_\_\_\_\_ Date/Time: 12/28/18 15:30  
 Relinquished by: (signature) \_\_\_\_\_ Date/Time: 12/28/18 18:50  
 Received by: (signature) \_\_\_\_\_ Date/Time: 12/28/18 18:50  
 Relinquished by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Special Requirements:  MA MCP Required  
 MCP Certification Form Required  
 CT RCP Required  
 RCP Certification Form Required  
 MA State DW Required

Detection Limit Requirements:  MA  CT  Other

PWSID # \_\_\_\_\_

Project Entity:  
 Government  Municipality  MWRA  WRTA  Other  
 Federal  21 J  School  AIHA-LAP, LLC  
 City  Brownfield  MBTA  Non Soxhlet



PCB ONLY  
 Soxhlet  
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client AECOM

Received By MP Date 12/28/18 Time 18:50

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.6  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? N/A

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? N/A

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear <u>7</u>
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

**Unused Media**

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

C:\MSDCHEM\4\DATA\D010319\D0103006.D

**CT ETPH DISCRIMINATION CHECK**

Data File Name D0103006.D  
 Data File Path C:\MSDCHEM\4\DATA\D010319\  
 Operator RMW  
 Date Acquired 1/3/2019 11:32  
 Acq. Method File EPH11D.M  
 Sample Name ETPH 1500  
 Instrument Name GCFID4

Compound	Ret Time	Target Response	Avg Response	*%D +/- 20
C-9	1.44	8101083	8890763	9
C-10	2.14	8282520	8890763	7
C-12	3.11	8599214	8890763	3
C-14	3.83	9009570	8890763	-1
C-16	4.45	9209636	8890763	-4
C-18	5.00	9101503	8890763	-2
C-20	5.58	9360477	8890763	-5
C-22	6.30	9490078	8890763	-7
C-24	7.12	8578595	8890763	4
C-26	7.93	9276451	8890763	-4
C-28	8.68	9032381	8890763	-2
C-30	9.36	8922021	8890763	0
C-32	10.00	8875256	8890763	0
C-34	10.60	8740858	8890763	2
C-36	11.17	8781803	8890763	1

**Samples**

\*One compound allowed %D &lt;=50%

18L1306-01  
 18L1306-02  
 18L1306-03  
 18L1306-05  
 18L1306-04@10X



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 18L1306

**Laboratory Sample ID(s):**

**Sample Date(s):**

18L1306-01 thru 18L1306-07

12/28/2018

**List RCP Methods Used:**

CTDEP ETPH, SW-846 8081B, SW-846 8270D

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>2</b>	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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."

Lisa A. Worthington

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 01/08/19

**Name of Laboratory:** Con-Test Analytical Laboratory

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

## Aaron Benoit

---

**From:** Doerfler, Elizabeth  
**Sent:** Wednesday, February 20, 2019 9:18 AM  
**To:** Aaron Benoit  
**Cc:** Rood, Matthew  
**Subject:** Sample ID Changes  
**Attachments:** 18L1306\_1 Contest\_Final 01 08 19 1423.pdf; 19A0303\_1 Contest\_Final 02 08 19 0858.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Reports

Hi Aaron,

I would like to request sample ID changes for the samples in these two reports. Can you please make these revisions and send new reports and EDDs?

Old Sample ID	Lab ID	New Sample ID
AOC-13-14-01-1	18L1306-01	C11-SB711 (0-0.5)-1
AOC-13-14-01-2	18L1306-02	C11-SB711 (0-0.5)-2
AOC-13-14-02-1	18L1306-03	C12-SB712 (0-0.5)-1
AOC-13-14-03-1	18L1306-04	C11-SB713 (0-0.5)-1
AOC-13-14-04-1	18L1306-05	C12-SB714 (0-0.5)-1
AOC-8-01-122818-1	18L1306-06 / 19A0303-01	D31-SB633 (0-1)-1
AOC-8-02-122818-1	18L1306-07 / 19A0303-02	E31-SB634 (0-1)-1

Thank you,

**Liz Doerfler**

Engineer, Environment  
 D +1-860-263-5781  
 M +1-860-382-6524  
[elizabeth.doerfler@aecom.com](mailto:elizabeth.doerfler@aecom.com)

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February 20, 2019

Matthew Rood  
AECOM Environment - Rocky Hill, CT  
500 Enterprise Drive, Suite 1A  
Rocky Hill, CT 06067

Project Location: Greenwich, CT  
Client Job Number:  
Project Number: 60432356.0500  
Laboratory Work Order Number: 19A0303

Enclosed are results of analyses for samples received by the laboratory on January 8, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AECOM Environment - Rocky Hill, CT  
 500 Enterprise Drive, Suite 1A  
 Rocky Hill, CT 06067  
 ATTN: Matthew Rood

REPORT DATE: 2/20/2019

PURCHASE ORDER NUMBER: 99513ACM

PROJECT NUMBER: 60432356.0500

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 19A0303

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

PROJECT LOCATION: Greenwich, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D31-SB633 (0-1)-1	19A0303-01	Soil		SM 2540G SW-846 1312 SW-846 8081B	
E31-SB634 (0-1)-1	19A0303-02	Soil		SM 2540G SW-846 1312 SW-846 8081B	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 2/20/2019: Report revised to update client sample IDs per client e-mail request.

REVISED REPORT: 2/8/2019

For method 8081, per clients request sample 19A0303-01 was evaluated down to the MDL.

**SW-846 8081B****Qualifications:****DL-03**

Elevated reporting limit due to matrix.

**Analyte & Samples(s) Qualified:**

19A0303-01[D31-SB633 (0-1)-1]

**P-04**

Due to continuing calibration non-conformance on the confirmatory detector, the lower of two results was reported.

**Analyte & Samples(s) Qualified:**

**4,4'-DDE [2C]**

19A0303-01[D31-SB633 (0-1)-1]

**V-06**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

**Analyte & Samples(s) Qualified:****4,4'-DDD**

B220958-BS1, B220958-BSD1, B220958-MS1

**4,4'-DDE**

B220958-BS1, B220958-BSD1, B220958-MS1

**Aldrin**

B220958-BS1, B220958-BSD1, B220958-MS1

**alpha-BHC**

B220958-BS1, B220958-BSD1, B220958-MS1

**beta-BHC**

B220958-BS1, B220958-BSD1, B220958-MS1

**delta-BHC**

B220958-BS1, B220958-BSD1, B220958-MS1

**gamma-BHC (Lindane)**

B220958-BS1, B220958-BSD1, B220958-MS1

**Hexachlorobenzene**

B220958-BS1, B220958-BSD1, B220958-MS1

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 19A0303

Date Received: 1/8/2019

Field Sample #: D31-SB633 (0-1)-1

Sampled: 12/28/2018 11:30

Sample ID: 19A0303-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	54.9		% Wt	1		SM 2540G	1/9/19	1/10/19 0:00	CJT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 19A0303

Date Received: 1/8/2019

Field Sample #: D31-SB633 (0-1)-1

Sampled: 12/28/2018 11:30

Sample ID: 19A0303-01

Sample Matrix: Soil

Sample Flags: DL-03

**SPLP - Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	2.0	0.25	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Aldrin [2]	ND	0.50	0.17	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
alpha-BHC [2]	ND	0.50	0.032	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
beta-BHC [2]	ND	0.50	0.24	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
delta-BHC [2]	ND	0.50	0.30	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
gamma-BHC (Lindane) [2]	ND	0.30	0.14	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Chlordane [2]	ND	2.0	1.2	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
4,4'-DDD [2]	ND	0.40	0.018	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
4,4'-DDE [2]	0.15	0.40	0.016	µg/L	10	P-04, J	SW-846 8081B	1/10/19	1/11/19 19:04	PJG
4,4'-DDT [1]	0.99	0.40	0.024	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Dieldrin [2]	ND	0.020	0.020	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Endosulfan I [2]	ND	0.50	0.021	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Endosulfan II [2]	ND	0.80	0.029	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Endosulfan sulfate [1]	0.16	0.80	0.025	µg/L	10	J	SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Endrin [2]	ND	0.80	0.017	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Endrin aldehyde [2]	ND	0.80	0.63	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Endrin ketone [2]	ND	0.80	0.050	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Heptachlor [2]	ND	0.50	0.046	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Heptachlor epoxide [2]	ND	0.50	0.040	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Hexachlorobenzene [2]	ND	0.50	0.39	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Methoxychlor [2]	ND	5.0	0.097	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Toxaphene [2]	ND	10	6.6	µg/L	10		SW-846 8081B	1/10/19	1/11/19 19:04	PJG
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]		87.3	30-150						1/11/19 19:04	
Decachlorobiphenyl [2]		129	30-150						1/11/19 19:04	
Tetrachloro-m-xylene [1]		97.2	30-150						1/11/19 19:04	
Tetrachloro-m-xylene [2]		74.5	30-150						1/11/19 19:04	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: Greenwich, CT

Sample Description:

Work Order: 19A0303

Date Received: 1/8/2019

Field Sample #: E31-SB634 (0-1)-1

Sampled: 12/28/2018 12:00

Sample ID: 19A0303-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.5		% Wt	1		SM 2540G	1/9/19	1/10/19 0:00	CJT

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Project Location: Greenwich, CT

Sample Description:

Work Order: 19A0303

Date Received: 1/8/2019

Field Sample #: E31-SB634 (0-1)-1

Sampled: 12/28/2018 12:00

Sample ID: 19A0303-02

Sample Matrix: Soil

SPLP - Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.20	0.025	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Aldrin [2]	ND	0.050	0.017	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
alpha-BHC [2]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
beta-BHC [2]	ND	0.050	0.024	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
delta-BHC [2]	ND	0.050	0.030	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
gamma-BHC (Lindane) [2]	ND	0.030	0.014	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Chlordane [2]	ND	0.20	0.12	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
4,4'-DDD [2]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
4,4'-DDE [2]	ND	0.040	0.0016	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
4,4'-DDT [2]	ND	0.040	0.0024	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Dieldrin [2]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Endosulfan I [2]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Endosulfan II [2]	ND	0.080	0.0029	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Endosulfan sulfate [2]	ND	0.080	0.0025	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Endrin [2]	ND	0.080	0.0017	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Endrin aldehyde [2]	ND	0.080	0.063	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Endrin ketone [2]	ND	0.080	0.0050	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Heptachlor [2]	ND	0.050	0.0046	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Heptachlor epoxide [2]	ND	0.050	0.0040	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Hexachlorobenzene [2]	ND	0.050	0.039	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Methoxychlor [2]	ND	0.50	0.0097	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Toxaphene [2]	ND	1.0	0.66	µg/L	1		SW-846 8081B	1/10/19	1/11/19 19:31	JMB
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]		76.2	30-150						1/11/19 19:31	
Decachlorobiphenyl [2]		72.4	30-150						1/11/19 19:31	
Tetrachloro-m-xylene [1]		76.7	30-150						1/11/19 19:31	
Tetrachloro-m-xylene [2]		63.0	30-150						1/11/19 19:31	

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**Sample Extraction Data****Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
19A0303-01 [D31-SB633 (0-1)-1]	B220831	01/09/19
19A0303-02 [E31-SB634 (0-1)-1]	B220831	01/09/19

**Prep Method: SW-846 3510C-SW-846 8081B**

Leachates were extracted on 1/9/2019 per SW-846 1312 in Batch B220823

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19A0303-01 [D31-SB633 (0-1)-1]	B220958	500	5.00	01/10/19
19A0303-02 [E31-SB634 (0-1)-1]	B220958	500	5.00	01/10/19

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B220958 - SW-846 3510C

Blank (B220958-BLK1)

Prepared: 01/10/19 Analyzed: 01/11/19

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.34		µg/L	2.00		66.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.27		µg/L	2.00		63.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.16		µg/L	2.00		57.9	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B220958 - SW-846 3510C</b>										
<b>LCS (B220958-BS1)</b>										
				Prepared: 01/10/19 Analyzed: 01/11/19						
Alachlor	0.73	0.20	µg/L	1.00		72.9	40-140			
Alachlor [2C]	0.65	0.20	µg/L	1.00		64.8	40-140			
Aldrin	0.77	0.050	µg/L	1.00		77.3	40-140			V-06
Aldrin [2C]	0.71	0.050	µg/L	1.00		71.4	40-140			
alpha-BHC	0.74	0.050	µg/L	1.00		74.1	40-140			V-06
alpha-BHC [2C]	0.67	0.050	µg/L	1.00		67.0	40-140			
beta-BHC	0.79	0.050	µg/L	1.00		79.5	40-140			V-06
beta-BHC [2C]	0.67	0.050	µg/L	1.00		66.7	40-140			
delta-BHC	0.80	0.050	µg/L	1.00		79.7	40-140			V-06
delta-BHC [2C]	0.68	0.050	µg/L	1.00		68.4	40-140			
gamma-BHC (Lindane)	0.78	0.030	µg/L	1.00		78.2	40-140			V-06
gamma-BHC (Lindane) [2C]	0.70	0.030	µg/L	1.00		69.7	40-140			
4,4'-DDD	0.80	0.040	µg/L	1.00		79.8	40-140			V-06
4,4'-DDD [2C]	0.76	0.040	µg/L	1.00		76.3	40-140			
4,4'-DDE	0.80	0.040	µg/L	1.00		80.4	40-140			V-06
4,4'-DDE [2C]	0.76	0.040	µg/L	1.00		76.1	40-140			
4,4'-DDT	0.79	0.040	µg/L	1.00		79.4	40-140			
4,4'-DDT [2C]	0.73	0.040	µg/L	1.00		73.4	40-140			
Dieldrin	0.77	0.0020	µg/L	1.00		77.0	40-140			
Dieldrin [2C]	0.71	0.0020	µg/L	1.00		71.4	40-140			
Endosulfan I	0.72	0.050	µg/L	1.00		72.0	40-140			
Endosulfan I [2C]	0.71	0.050	µg/L	1.00		71.2	40-140			
Endosulfan II	0.75	0.080	µg/L	1.00		75.4	40-140			
Endosulfan II [2C]	0.71	0.080	µg/L	1.00		70.8	40-140			
Endosulfan Sulfate	0.83	0.080	µg/L	1.00		82.7	40-140			
Endosulfan Sulfate [2C]	0.72	0.080	µg/L	1.00		72.0	40-140			
Endrin	0.76	0.080	µg/L	1.00		76.5	40-140			
Endrin [2C]	0.72	0.080	µg/L	1.00		72.0	40-140			
Endrin Aldehyde	0.78	0.080	µg/L	1.00		78.0	40-140			
Endrin Aldehyde [2C]	0.71	0.080	µg/L	1.00		70.7	40-140			
Endrin Ketone	0.82	0.080	µg/L	1.00		82.1	40-140			
Endrin Ketone [2C]	0.75	0.080	µg/L	1.00		75.2	40-140			
Heptachlor	0.73	0.050	µg/L	1.00		73.4	40-140			
Heptachlor [2C]	0.72	0.050	µg/L	1.00		72.4	40-140			
Heptachlor Epoxide	0.76	0.050	µg/L	1.00		75.6	40-140			
Heptachlor Epoxide [2C]	0.69	0.050	µg/L	1.00		69.1	40-140			
Hexachlorobenzene	0.78	0.050	µg/L	1.00		78.2	40-140			V-06
Hexachlorobenzene [2C]	0.66	0.050	µg/L	1.00		66.3	40-140			
Methoxychlor	0.76	0.50	µg/L	1.00		76.0	40-140			
Methoxychlor [2C]	0.80	0.50	µg/L	1.00		79.8	40-140			
Surrogate: Decachlorobiphenyl	1.42		µg/L	2.00		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.34		µg/L	2.00		67.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.49		µg/L	2.00		74.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.23		µg/L	2.00		61.4	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B220958 - SW-846 3510C</b>										
<b>LCS Dup (B220958-BS1)</b>										
					Prepared: 01/10/19 Analyzed: 01/11/19					
Alachlor	0.62	0.20	µg/L	1.00		62.0	40-140	16.2		
Alachlor [2C]	0.56	0.20	µg/L	1.00		55.9	40-140	14.6		
Aldrin	0.65	0.050	µg/L	1.00		64.5	40-140	18.0		V-06
Aldrin [2C]	0.60	0.050	µg/L	1.00		60.1	40-140	17.2		
alpha-BHC	0.60	0.050	µg/L	1.00		60.3	40-140	20.6		V-06
alpha-BHC [2C]	0.54	0.050	µg/L	1.00		54.5	40-140	20.6		
beta-BHC	0.67	0.050	µg/L	1.00		67.4	40-140	16.4		V-06
beta-BHC [2C]	0.56	0.050	µg/L	1.00		55.5	40-140	18.3		
delta-BHC	0.68	0.050	µg/L	1.00		67.9	40-140	16.0		V-06
delta-BHC [2C]	0.57	0.050	µg/L	1.00		56.6	40-140	18.7		
gamma-BHC (Lindane)	0.64	0.030	µg/L	1.00		63.6	40-140	20.6		V-06
gamma-BHC (Lindane) [2C]	0.58	0.030	µg/L	1.00		57.8	40-140	18.7		
4,4'-DDD	0.66	0.040	µg/L	1.00		66.4	40-140	18.3		V-06
4,4'-DDD [2C]	0.64	0.040	µg/L	1.00		64.2	40-140	17.1		
4,4'-DDE	0.67	0.040	µg/L	1.00		67.0	40-140	18.1		V-06
4,4'-DDE [2C]	0.64	0.040	µg/L	1.00		64.1	40-140	17.1		
4,4'-DDT	0.67	0.040	µg/L	1.00		66.6	40-140	17.5		
4,4'-DDT [2C]	0.62	0.040	µg/L	1.00		61.7	40-140	17.3		
Dieldrin	0.64	0.0020	µg/L	1.00		64.4	40-140	17.8		
Dieldrin [2C]	0.61	0.0020	µg/L	1.00		60.6	40-140	16.4		
Endosulfan I	0.61	0.050	µg/L	1.00		60.6	40-140	17.2		
Endosulfan I [2C]	0.61	0.050	µg/L	1.00		60.9	40-140	15.5		
Endosulfan II	0.63	0.080	µg/L	1.00		63.1	40-140	17.7		
Endosulfan II [2C]	0.60	0.080	µg/L	1.00		60.0	40-140	16.6		
Endosulfan Sulfate	0.69	0.080	µg/L	1.00		68.7	40-140	18.4		
Endosulfan Sulfate [2C]	0.61	0.080	µg/L	1.00		61.0	40-140	16.6		
Endrin	0.64	0.080	µg/L	1.00		64.0	40-140	17.8		
Endrin [2C]	0.61	0.080	µg/L	1.00		61.4	40-140	15.9		
Endrin Aldehyde	0.66	0.080	µg/L	1.00		66.0	40-140	16.7		
Endrin Aldehyde [2C]	0.60	0.080	µg/L	1.00		60.1	40-140	16.2		
Endrin Ketone	0.69	0.080	µg/L	1.00		69.4	40-140	16.8		
Endrin Ketone [2C]	0.63	0.080	µg/L	1.00		63.0	40-140	17.6		
Heptachlor	0.61	0.050	µg/L	1.00		60.7	40-140	18.9		
Heptachlor [2C]	0.61	0.050	µg/L	1.00		61.2	40-140	16.7		
Heptachlor Epoxide	0.63	0.050	µg/L	1.00		63.1	40-140	18.0		
Heptachlor Epoxide [2C]	0.59	0.050	µg/L	1.00		58.5	40-140	16.6		
Hexachlorobenzene	0.67	0.050	µg/L	1.00		67.5	40-140	14.7	30	V-06
Hexachlorobenzene [2C]	0.58	0.050	µg/L	1.00		57.9	40-140	13.4	30	
Methoxychlor	0.64	0.50	µg/L	1.00		63.7	40-140	17.6		
Methoxychlor [2C]	0.68	0.50	µg/L	1.00		68.5	40-140	15.3		
Surrogate: Decachlorobiphenyl	1.13		µg/L	2.00		56.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		µg/L	2.00		53.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.24		µg/L	2.00		61.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.01		µg/L	2.00		50.3	30-150			

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QUALITY CONTROL

SPLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B220958 - SW-846 3510C</b>										
<b>Matrix Spike (B220958-MS1)</b>	<b>Source: 19A0303-02</b>			<b>Prepared: 01/10/19 Analyzed: 01/11/19</b>						
Alachlor	0.81	0.20	µg/L	1.00	ND	81.2	30-150			
Alachlor [2C]	0.72	0.20	µg/L	1.00	ND	72.0	30-150			
Aldrin	0.86	0.050	µg/L	1.00	ND	86.2	30-150			V-06
Aldrin [2C]	0.80	0.050	µg/L	1.00	ND	79.6	30-150			
alpha-BHC	0.83	0.050	µg/L	1.00	ND	82.7	30-150			V-06
alpha-BHC [2C]	0.75	0.050	µg/L	1.00	ND	75.5	30-150			
beta-BHC	0.88	0.050	µg/L	1.00	ND	87.8	30-150			V-06
beta-BHC [2C]	0.72	0.050	µg/L	1.00	ND	71.5	30-150			
delta-BHC	0.89	0.050	µg/L	1.00	ND	89.0	30-150			V-06
delta-BHC [2C]	0.78	0.050	µg/L	1.00	ND	77.8	30-150			
gamma-BHC (Lindane)	0.86	0.030	µg/L	1.00	ND	86.4	30-150			V-06
gamma-BHC (Lindane) [2C]	0.79	0.030	µg/L	1.00	ND	78.7	30-150			
4,4'-DDD	0.90	0.040	µg/L	1.00	ND	90.5	30-150			V-06
4,4'-DDD [2C]	0.87	0.040	µg/L	1.00	ND	86.5	30-150			
4,4'-DDE	0.91	0.040	µg/L	1.00	ND	90.5	30-150			V-06
4,4'-DDE [2C]	0.86	0.040	µg/L	1.00	ND	86.3	30-150			
4,4'-DDT	0.91	0.040	µg/L	1.00	ND	91.1	30-150			
4,4'-DDT [2C]	0.83	0.040	µg/L	1.00	ND	82.7	30-150			
Dieldrin	0.86	0.0020	µg/L	1.00	ND	86.0	30-150			
Dieldrin [2C]	0.81	0.0020	µg/L	1.00	ND	80.6	30-150			
Endosulfan I	0.81	0.050	µg/L	1.00	ND	81.2	30-150			
Endosulfan I [2C]	0.81	0.050	µg/L	1.00	ND	80.6	30-150			
Endosulfan II	0.85	0.080	µg/L	1.00	ND	84.8	30-150			
Endosulfan II [2C]	0.79	0.080	µg/L	1.00	ND	79.3	30-150			
Endosulfan Sulfate	0.94	0.080	µg/L	1.00	ND	94.3	30-150			
Endosulfan Sulfate [2C]	0.81	0.080	µg/L	1.00	ND	81.1	30-150			
Endrin	0.86	0.080	µg/L	1.00	ND	85.7	30-150			
Endrin [2C]	0.81	0.080	µg/L	1.00	ND	80.9	30-150			
Endrin Aldehyde	0.87	0.080	µg/L	1.00	ND	87.0	30-150			
Endrin Aldehyde [2C]	0.81	0.080	µg/L	1.00	ND	80.9	30-150			
Endrin Ketone	0.92	0.080	µg/L	1.00	ND	91.6	30-150			
Endrin Ketone [2C]	0.85	0.080	µg/L	1.00	ND	85.0	30-150			
Heptachlor	0.81	0.050	µg/L	1.00	ND	80.8	30-150			
Heptachlor [2C]	0.81	0.050	µg/L	1.00	ND	81.1	30-150			
Heptachlor Epoxide	0.84	0.050	µg/L	1.00	ND	84.4	30-150			
Heptachlor Epoxide [2C]	0.78	0.050	µg/L	1.00	ND	77.6	30-150			
Hexachlorobenzene	0.89	0.050	µg/L	1.00	ND	88.7	30-150			V-06
Hexachlorobenzene [2C]	0.76	0.050	µg/L	1.00	ND	76.4	30-150			
Methoxychlor	0.85	0.50	µg/L	1.00	ND	85.4	30-150			
Methoxychlor [2C]	0.85	0.50	µg/L	1.00	ND	84.9	30-150			
Surrogate: Decachlorobiphenyl	1.65		µg/L	2.00		82.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.57		µg/L	2.00		78.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.78		µg/L	2.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.43		µg/L	2.00		71.7	30-150			

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BREAKDOWN REPORT

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**Lab Sample ID:** S031219-PEM1                      **Analyzed:** 01/11/2019

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	3.81
Endrin [1]	4.29

---

**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	3.82
Endrin [2]	4.83

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**AOC-8-01-122818-1**

*SW-846 8081B*

Lab Sample ID: 19A0303-01 Date(s) Analyzed 01/11/2019 01/11/2019

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.826	0.000	0.000	0.21	
	2	6.862	0.000	0.000	0.15	33.3
4,4'-DDT	1	7.481	0.000	0.000	0.99	
	2	7.535	0.000	0.000	0.73	30.2
Endosulfan Sulfate	1	8.032	0.000	0.000	0.16	
	2	7.838	0.000	0.000	0.15	12.5

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*

Lab Sample ID:                     B220958-BS1                          Date(s) Analyzed           01/11/2019                     01/11/2019          

Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                    

GC Column (1):                                    ID:                                    (mm)      GC Column (2):                                    ID:                                    (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.268	0.000	0.000	0.80	
	2	7.297	0.000	0.000	0.76	5.1
4,4'-DDE	1	6.827	0.000	0.000	0.80	
	2	6.863	0.000	0.000	0.76	5.1
4,4'-DDT	1	7.482	0.000	0.000	0.79	
	2	7.535	0.000	0.000	0.73	7.9
Alachlor	1	6.260	0.000	0.000	0.73	
	2	6.045	0.000	0.000	0.65	11.6
Aldrin	1	6.170	0.000	0.000	0.77	
	2	6.105	0.000	0.000	0.71	8.1
alpha-BHC	1	5.457	0.000	0.000	0.74	
	2	5.401	0.000	0.000	0.67	9.9
beta-BHC	1	5.709	0.000	0.000	0.79	
	2	5.671	0.000	0.000	0.67	17.7
delta-BHC	1	5.825	0.000	0.000	0.80	
	2	5.857	0.000	0.000	0.68	16.2
Dieldrin	1	7.046	0.000	0.000	0.77	
	2	6.974	0.000	0.000	0.71	8.1
Endosulfan I	1	6.871	0.000	0.000	0.72	
	2	6.774	0.000	0.000	0.71	1.4
Endosulfan II	1	7.385	0.000	0.000	0.75	
	2	7.361	0.000	0.000	0.71	5.5
Endosulfan Sulfate	1	8.033	0.000	0.000	0.83	
	2	7.841	0.000	0.000	0.72	14.2
Endrin	1	7.218	0.000	0.000	0.76	
	2	7.199	0.000	0.000	0.72	6.7
Endrin Aldehyde	1	7.704	0.000	0.000	0.78	
	2	7.624	0.000	0.000	0.71	9.4
Endrin Ketone	1	8.226	0.000	0.000	0.82	
	2	8.219	0.000	0.000	0.75	8.9
gamma-BHC (Lindane)	1	5.656	0.000	0.000	0.78	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8081B*

Lab Sample ID:                     B220958-BS1                                          Date(s) Analyzed           01/11/2019                     01/11/2019          

Instrument ID (1):                     ECD6                                          Instrument ID (2):                     ECD6                    

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.617	0.000	0.000	0.70	10.8
Heptachlor	1	5.966	0.000	0.000	0.73	
	2	5.894	0.000	0.000	0.72	1.4
Heptachlor Epoxide	1	6.588	0.000	0.000	0.76	
	2	6.498	0.000	0.000	0.69	9.7
Hexachlorobenzene	1	5.353	0.000	0.000	0.78	
	2	5.314	0.000	0.000	0.66	16.7
Methoxychlor	1	7.861	0.000	0.000	0.76	
	2	8.073	0.000	0.000	0.80	5.1





**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*SW-846 8081B*

**Matrix Spike**

Lab Sample ID:                     B220958-MS1                          Date(s) Analyzed           01/11/2019                     01/11/2019            
 Instrument ID (1):                     ECD6                          Instrument ID (2):                     ECD6                      
 GC Column (1):                            ID:                            (mm)      GC Column (2):                            ID:                            (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.268	0.000	0.000	0.90	
	2	7.296	0.000	0.000	0.87	4.5
4,4'-DDE	1	6.827	0.000	0.000	0.91	
	2	6.863	0.000	0.000	0.86	5.7
4,4'-DDT	1	7.482	0.000	0.000	0.91	
	2	7.536	0.000	0.000	0.83	9.2
Alachlor	1	6.259	0.000	0.000	0.81	
	2	6.044	0.000	0.000	0.72	11.8
Aldrin	1	6.169	0.000	0.000	0.86	
	2	6.104	0.000	0.000	0.80	7.2
alpha-BHC	1	5.456	0.000	0.000	0.83	
	2	5.400	0.000	0.000	0.75	10.1
beta-BHC	1	5.708	0.000	0.000	0.88	
	2	5.671	0.000	0.000	0.72	20.0
delta-BHC	1	5.824	0.000	0.000	0.89	
	2	5.856	0.000	0.000	0.78	13.2
Dieldrin	1	7.046	0.000	0.000	0.86	
	2	6.974	0.000	0.000	0.81	6.0
Endosulfan I	1	6.870	0.000	0.000	0.81	
	2	6.774	0.000	0.000	0.81	0.0
Endosulfan II	1	7.386	0.000	0.000	0.85	
	2	7.361	0.000	0.000	0.79	7.3
Endosulfan Sulfate	1	8.033	0.000	0.000	0.94	
	2	7.841	0.000	0.000	0.81	14.9
Endrin	1	7.219	0.000	0.000	0.86	
	2	7.199	0.000	0.000	0.81	6.0
Endrin Aldehyde	1	7.705	0.000	0.000	0.87	
	2	7.624	0.000	0.000	0.81	7.1
Endrin Ketone	1	8.226	0.000	0.000	0.92	
	2	8.220	0.000	0.000	0.85	7.9
gamma-BHC (Lindane)	1	5.655	0.000	0.000	0.86	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8081B*

Lab Sample ID:                   B220958-MS1                                        Date(s) Analyzed           01/11/2019                     01/11/2019          

Instrument ID (1):                   ECD6                                        Instrument ID (2):                   ECD6                  

GC Column (1):                      ID:                      (mm)                      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.617	0.000	0.000	0.79	8.5
Heptachlor	1	5.965	0.000	0.000	0.81	
	2	5.893	0.000	0.000	0.81	0.0
Heptachlor Epoxide	1	6.587	0.000	0.000	0.84	
	2	6.497	0.000	0.000	0.78	7.4
Hexachlorobenzene	1	5.353	0.000	0.000	0.89	
	2	5.314	0.000	0.000	0.76	15.8
Methoxychlor	1	7.861	0.000	0.000	0.85	
	2	8.073	0.000	0.000	0.85	0.0

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
P-04	Due to continuing calibration non-conformance on the confirmatory detector, the lower of two results was reported.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
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**No certified Analyses included in this Report**

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



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 Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street  
 East Longmeadow, MA 01028

Page 1 of 1

**Company Name:** AECOM  
**Address:** 500 Enterprise Drive, Rocky Hill, CT  
**Phone:** 860-263-5800  
**Project Name:** Greenwich High School  
**Project Location:** Greenwich, CT  
**Project Number:** 60432356  
**Project Manager:** Matt Rood  
**Con-Test Quote Name/Number:** Matt Rood  
**Invoice Recipient:** Matt Rood  
**Sampled By:** J. Mabee, C. Santos

**Requested Turnaround Time**  
 7-Day  10-Day   
**Due Date:**  
 1-Day  3-Day  4-Day  
**Data Delivery**  
 Format:  PDF  EXCEL   
 Other:  Equis  
 CLP Like Data Pkg Required:   
 Email To: Matthew.Rood@aecom.com  
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
2	AOC-13-14-01-1	9/15/18	12/28/18 9:15		X	S	U
3	AOC-13-14-01-2	9/16/18	12/28/18 9:16		X	S	U
4	AOC-13-14-02-1	9/30/18	12/28/18 9:30		X	S	U
5	AOC-13-14-03-1	9/45/18	12/28/18 9:45		X	S	U
6	AOC-13-14-04-1	10/20/18	12/28/18 10:20		X	S	U
01	AOC-8-01-122818-1	12/28/18	12/28/18 11:36		X	S	U
02	AOC-8-02-122818-1	12/29/18	12/29/18 12:00		X	S	U

**ANALYSIS REQUESTED**  
 Pesticides  
 PAHs  
 RPH

**1 Matrix Codes:**  
 GW = Ground Water  
 WW = Waste Water  
 DW = Drinking Water  
 A = Air  
 S = Soil  
 SL = Sludge  
 SOL = Solid  
 O = Other (please define)

**2 Preservation Codes:**  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium Bisulfate  
 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
 O = Other (please define)

**3 Container Codes:**  
 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define)

Comments: 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) *[Signature]* Date/Time: 12/28/18 15:30  
**Received by:** (signature) *[Signature]* Date/Time: 12/28/18 15:30  
**Relinquished by:** (signature) *[Signature]* Date/Time: 12/28/18 18:50  
**Received by:** (signature) *[Signature]* Date/Time: 12/28/18 18:50  
**Relinquished by:** (signature) *[Signature]* Date/Time: 12/28/18 18:50  
**Received by:** (signature) *[Signature]* Date/Time: 12/28/18 18:50

**Special Requirements:**  
 MA MCP Required  
 MCP Certification Form Required  
 CT RCP Required  
 RCP Certification Form Required  
 MA State DW Required

**Detection Limit Requirements:**  
 MA  
 CT  
 Other

**Project Entity:**  
 Government  Municipality  MWRA  Other  
 Federal  21 J  School  WRTA  
 City  Brownfield  MBTA  AIHA-LAP, LLC

**PCB ONLY:**  
 Soxhlet  
 Non Soxhlet



NEAC and AIHA-LAP, LLC Accredited

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test**<sup>®</sup>  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client AECOM

Received By MP Date 12/28/18 Time 18:50

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.6  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? N/A

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? N/A

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

Who was notified? \_\_\_\_\_

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear <u>7</u>
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

**Unused Media**

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:



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

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** AECOM Environment - Rocky Hill, CT

**Project Location:** Greenwich, CT

**Project Number:** 19A0303

**Laboratory Sample ID(s):**

**Sample Date(s):**

19A0303-01 thru 19A0303-02

12/28/2018

**List RCP Methods Used:**

SW-846 1312, SW-846 8081B

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>2</b>	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 01/14/19

**Name of Laboratory:** Con-Test Analytical Laboratory

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

## Aaron Benoit

---

**From:** Doerfler, Elizabeth  
**Sent:** Wednesday, February 20, 2019 9:18 AM  
**To:** Aaron Benoit  
**Cc:** Rood, Matthew  
**Subject:** Sample ID Changes  
**Attachments:** 18L1306\_1 Contest\_Final 01 08 19 1423.pdf; 19A0303\_1 Contest\_Final 02 08 19 0858.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Reports

Hi Aaron,

I would like to request sample ID changes for the samples in these two reports. Can you please make these revisions and send new reports and EDDs?

Old Sample ID	Lab ID	New Sample ID
AOC-13-14-01-1	18L1306-01	C11-SB711 (0-0.5)-1
AOC-13-14-01-2	18L1306-02	C11-SB711 (0-0.5)-2
AOC-13-14-02-1	18L1306-03	C12-SB712 (0-0.5)-1
AOC-13-14-03-1	18L1306-04	C11-SB713 (0-0.5)-1
AOC-13-14-04-1	18L1306-05	C12-SB714 (0-0.5)-1
AOC-8-01-122818-1	18L1306-06 / 19A0303-01	D31-SB633 (0-1)-1
AOC-8-02-122818-1	18L1306-07 / 19A0303-02	E31-SB634 (0-1)-1

Thank you,

**Liz Doerfler**

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