Class A-2 Response Action Outcome Statement

Attachment to DEP Form BWSC-104

RTN 4-24815

37 Prospect Avenue

Hull, MA

Prepared for

Aquarion Water Company

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Environmental Partners GROUP

A partnership for engineering solutions

1900 Crown Colony Drive.
Suite 402
Quincy, MA 02169

Phone: 617-657-0200
Fax: 617-657-0201
www.envpartners.com

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1.0 Introduction

On behalf of Aquarion Water Company (Aquarion), this report serves as an attachment for a BWSC-104 (Class A-2 Response Action Outcome (RAO) Statement) form submitted via eDEP for 37 Prospect Avenue in Hull, MA (hereinafter referred to as "the Site"). Aquarion undertook response actions at the Site as an Other Person as that term is defined under 310 CMR 40.0006. IRA Activities consisted of excavating and disposing of 100 cubic yards of PCB-impacted soil and approximately 30 cubic yards of PCB-impacted debris. This RAO Statement was prepared in accordance with 310 CMR 40.1000, of the Massachusetts Contingency Plan (MCP).

2.0 Background

2.1 Site Description

37 Prospect Avenue is a 7,080 square foot residential property with one 1,877 square foot residential structure. This property was reportedly formerly owned by the U.S. Government; the residential structure, which has since been modified, was reportedly used as a coastal defense observation building for enemy submarines/ships during World War II (Peaslee, 2013).

A residential property (35 Prospect Avenue) is located to the east-northeast of the site. Vacant land is located to the south-southeast (Hull Assessor Parcel #20-200). A 0.3-acre piece of land (39 Prospect Avenue) owned by Aquarion is located to the west-southwest; 95 feet of this approximate 100-foot property line with Aquarion are separated by a chain link fence. Residential properties are to the north-northwest of the Site across Prospect Avenue.

Site grades slope generally to the northeast. There is a sharp drop-off to the south along the southeast property line, and a slope upward to the southwest along the Site's border with 39

Prospect Avenue. The site is improved by a paved driveway, an outdoor covered porch, grassed lawn and landscaping. No wetlands are within 100 feet of the Site. Grades between 39 Prospect and the Site nearest Prospect Avenue had reportedly been softened through landscape improvements undertaken by the Site Owner through a contractor in the past ten years; additional fill and stone had been imported to the site in this area (Peaslee, 2013).

Approximately ten years ago, Aquarion reportedly imported fill/stone on 39 Prospect Avenue along the 100-foot property line with the Site in an effort to improve drainage conditions, such that runoff from Aquarion's property would flow to the northeast and southeast corners of its property and not directly east toward the Site. This effort also included installation of a new chain link fence approximately 12 inches west (further away) from the Site, and demolition of most of the previous fence; a portion of the previous fence is still visible (Peaslee, 2013).

2.2 Reportable Conditions

As part of the Phase 2 Comprehensive Site Assessment of an abutting property (39 Prospect Avenue, RTN 4-22776), the property owner of 39 Prospect Avenue, Aquarion Water Company, through their consultant Environmental Partners Group (EPG), collected soil samples from the Site on September 19, 2013, in order to determine the nature and extent of soil contamination discovered at 39 Prospect Avenue. The samples were submitted to ESS Laboratories of Cranston Rhode Island for laboratory analysis of metals, polyaromatic hydrocarbons, and PCB's. Elevated concentrations of PCB's, Cadmium, Chromium, Lead, polyaromatic hydrocarbons had previously been detected in soils at the eastern limits of the fenced-in property of 39 Prospect Avenue.

On October 4, 2013 at 1:10 p.m., EPG received analytical reports from ESS, which indicated maximum PCB concentrations of 97.6 ppm in the top 12 inches of the Site. Per 310 CMR 40.0321(2)(b), this represented a potential Imminent Hazard and thus a 2-hour reporting condition. Following notification to the Site Owner, Mr. Paul Peaslee, EPG verbally notified the Massachusetts Department of Environmental Protection's (MassDEP) Bureau of Waste Site Cleanup in the Southeast Region (Mr. Bob Murphy) at 2:34 p.m.

3.0 Potentially Responsible Party

Based on the 2-hour reportable condition on 37 Prospect Avenue, the MassDEP issued a Notice of Responsibility to the Site Owner, Mr. Paul Peaslee (Telephone #781- 987-4442) and assigned the Site Release Tracking Number (RTN) 4-24815.

4.0 Other Person

Without acknowledging responsibility for the elevated concentrations of soil contaminants at the Site, Aquarion offered, and was granted permission by the Site Owner to execute the IRA Plan on behalf of the Site Owner as an Other Person as that term is defined in the Massachusetts Contingency Plan (310 CMR 40.0006). Aquarion Address: 900 Main Street, Hingham, MA 02043, Telephone: 781-740-6694. Contact: Mr. Blake Lukis, Director, Massachusetts Operations.

5.0 Pre-IRA Sampling Activities

5.1 RTN 4-22776

On July 28, 2011, Aquarion submitted a Phase 1 Initial Site Investigation and Tier Classification for their property located on 39 Prospect Avenue (RTN 4-22776). The Site was classified as a Tier II Site, and the Phase I report detailed the presence of soil contaminants [PCB's, metals (Cadmium, Lead), and polyaromatic hydrocarbons] above RCS-1 Reportable Concentrations. Sampling results from the Phase I investigation indicated that soil contamination was limited to the top two feet of soils on-site and that this top two feet of soil were largely comprised of topsoil and fill; a consistent layer of light brown/tan silt/clay soils were beneath this fill/topsoil, which was largely absent of elevated concentrations of soil contaminants.

Groundwater samples were collected from three monitoring wells on-site; groundwater elevations were measured at approximately ten feet below ground surface and concentrations of contaminants detected in groundwater samples collected from these monitoring wells were below applicable RCGW-1 concentrations.

In the summer of 2013, Aquarion commenced a Phase 2 site investigation to determine the nature and extent of soil contaminants detected at their property. Prior to conducting this investigation, Aquarion met with the U.S. EPA to obtain feedback on the sampling plan, as PCB's had been detected at 39 Prospect Avenue in excess of 50 ppm (triggering compliance with implementing regulations (40 CFR 761) of the Toxic Substance Control Act (TSCA)). EPA suggested Aquarion collect a sample at the top three inches at each sample location and then collect a sample below this top three-inch layer, but within the top twelve inches, in order not to dilute the PCB concentrations at that sample location (i.e., highest PCB concentration would likely be in the top three inches and mixing this layer with soil below it (presumably lesser PCB concentrations) may bias the PCB concentration lower at that location). Samples collected at each location within the top three inches were designated "A", below that were "B" (e.g., Samples collected at location 30 were designated "30A" and "30B" depending on depth).

Sample locations were collected by a geoprobe/hand tools by advancing hollow steel rods approximately 24-30 inches below the ground surface. The hollow rod had a pre-cleaned plastic sleeve within it that would collect the soil sample, and then be removed and cut open for characterization of that soil sample. That soil sample would then be removed from the plastic sleeve by hand (sterile nitrile glove) and transferred to lab sample bottles for subsequent shipment to an off-site analytical laboratory for analysis.

In areas of highest contamination, as delineated in the Phase I investigation, samples locations were within five feet of each other. In areas of less contamination, locations were within ten or twenty feet of each other.

5.2 RTN 4-24815

The sampling protocol described in Section 5.1 was used throughout the Phase 2 investigation, which included sampling on 37 Prospect Avenue and the vacant wooded hillside just south of 39 Prospect Avenue. In September, 2013, samples were collected from 55 locations at the Site (37 Prospect Avenue)(see Appendix B, Figure 2). All soil samples were submitted for PCB analysis; limited soil sampling and analysis was also conducted for metals, polyaromatic hydrocarbons, volatile organic compounds, herbicides and pesticides.

With the exception of lead concentrations in soils collected immediately adjacent to the painted surface of the on-site residential structure (Soil sample location “8”), and PCB’s, all other contaminants detected in samples collected from the Site in September 2013, were below RCS-1 reportable concentrations. The detection of lead was attributed to residues in the environment emanating from a point of original application of lead-based paint and is thus exempt from reporting and management under the MCP (310 CMR 40.0317(8)(a)).

Following the receipt of laboratory reports which measured PCB concentrations above 10 ppm in soil samples collected from the top three inches at the Site as described in Section 2.2 (97.6 ppm in Sample I.D. 30A), IRA activities commenced as described in Section 6.0.

6.0 Immediate Response Action (IRA)

6.1 IRA Plan

During release notification to MassDEP on October 4, 2013, EPG’s Licensed Site Professional (LSP) requested permission from MassDEP to fence those locations on the Site with PCB concentrations greater than 10 ppm in the top twelve inches as well as excavation and off-site transport and disposal of up to 20 cubic yards of PCB-impacted soils under an IRA. MassDEP granted approval of the IRA on October 4th. On October 25, 2013, following further coordination with the MassDEP by the EPG’s LSP, a total of 100 cubic yards of PCB-impacted soil was approved by MassDEP for excavation and off-site transport and disposal.

As soils were impacted with PCB concentrations of greater than 50 ppm, the U.S. Environmental Protection Agency (U.S. EPA) Region 1 (Ms. Kim Tisa) was given advance notice of the proposed IRA activities on October 17, 2013. U.S. EPA approved of the soil removal under EPA's performance-based option (40 CFR § 761.61(b)). Compliance with this option required: (1) post-excavation sampling every 25 square feet, (2) a composite sample collected from 9 locations within each 25 square foot grid, (3) post-excavation PCB concentrations less than 1 ppm in each 25-square foot grid, and (4) all excavated soils transported and disposed of at a TSCA facility as TSCA waste.

Based on the soil sampling activities which occurred at the Site in September, 2013, it initially appeared that concentrations of soil contaminants above applicable RCS-1 Reportable Concentrations were limited to the area of the Site immediately adjacent to 39 Prospect Avenue.

6.2 Excavation Activities: October 18 – November 1, 2013

Aquarion contracted with North Creek Construction of Woburn, MA to conduct the IRA Activities, and EPG as the LSP to oversee its implementation.

Based on the September 2013 sampling event, the site was segregated into 25-square foot sampling grid areas. In general, those grid areas where PCB concentrations in soil samples were less than 1 ppm were not excavation. However, if a grid area had multiple adjacent grid areas with PCB concentrations less than one, that grid area was also excavated.

Soil removal efforts commenced on October 18, 2013, along the western limits of the site through access gained along the fence line with 39 Prospect Avenue. There is an approximate 100-foot line separating the two properties; approximately 95 feet of this is fenced. Due to narrow/steep topography, which limited access by excavating equipment, and in an effort to minimize the generation of airborne dust, soil was mostly removed by a vacuum hose, which was connected to 30 cubic yard vacuum storage boxes. The outlet end of each vacuum storage box was then in turn connected to a vacuum truck pulling a vacuum through the box, which created the system vacuum to remove the soils. The soils were initially loosened with hand tools (shovels, hoes, picks) by site workers prior to being vacuumed into the vacuum box through a long plastic hose. Site workers involved with these operations were outfitted with tyvek suits, tyvek over-boots and rubber gloves. A minor amount of soil was also excavated with a mini-excavator and subsequently transferred into lined open top containers staged on 39 Prospect Avenue.

A 5-micron filter was placed between the outlet of each vacuum box and the vacuum truck to mitigate transference of PCB dust into the vacuum truck. All of these filters were subsequently disposed of as TSCA waste. Air exhaust from the vacuum truck also went through a filter. Prior to the vacuum truck's departure from the site, wipe samples (6" x 6") were collected from

the inlet of the vacuum truck (Sample I.D.: Vac, Vac2, Vac3) and from the filter (Sample I.D.: Filter, Filter2, Filter3) and submitted to an off-site analytical laboratory for PCB analysis. All of these wipe sampling results were below laboratory detection limits (Appendix C, Table 2).

Soil excavation activities occurred along the western side of the Site at depths ranging from 6 inches to approximately four feet below ground surface. Along the southeastern corner of the property (1/3 of the horizontal footprint of the excavation), the original landscape was grass (see adjacent pre-excavation photo). Soil conditions observed during excavation in this area (southeastern third of the excavation) were approximately 6 inches of brown topsoil underlain by stiff light brown silt and clay.

The middle third of the excavation footprint was closest to the residential structure and proved to be both the most contaminated and the most difficult to remove due to the steepness of the slope, the presence of trees and previously buried waste materials (see adjacent pre-excavation photos). Buried waste included left-over remnants of house renovation project(s) (vinyl siding, roofing material, metal), glass, plastic, waste oil bottles, remnants of a car battery, and newspaper (dated 1991)(see Photos, Appendix D). Soils were intermixed with this topsoil down to a maximum depth of approximately four feet below pre-excavation grade. All this waste material was removed and conservatively disposed off-site as TSCA waste. Below this depth, soils were characterized by a stiff light-brown silt and clay.

Landscaping along this middle third of the excavation area is improved with an approximate 4-foot tall vertical pressure treated wall. Within this walled area (between the PTW wall and the residential structure, the Site owner had stored rakes, propane

tanks, tires, shovels, concrete blocks and a 5-gallon gasoline tank. Also in this area was an approximate 300-gallon aboveground storage heating oil storage tank. Soil was within this walled area (e.g., unpaved); the top 3-4 inches of soil in this area were removed as part of the IRA activities.

The last third of the excavation footprint was closest to Prospect Avenue (see adjacent pre-excavation photo with Prospect Ave. in the foreground). The excavation revealed the presence of imported topsoil and stone fill that the Site owner reported as being placed by his contractor to improve/lessen site grades between 39 Prospect Avenue and the Site (Peaslee, 2013). As part of the IRA, this material was excavated/vacuumed off-site as TSCA remediation waste. Excavation depths in this area were a maximum of three feet. Below this depth, soils were characterized by a stiff light-brown silt and clay.

Soil vacuuming/excavation occurred on October 18, 21, 22, 25, 29, and November 1st within the limits shown on Figure 1. Areas where pre-excavation sampling indicated PCB concentrations were less than 1 ppm were generally left unexcavated. After soil removal was completed in each 25-square foot grid on-site (5’ x 5’), a composite soil sample was collected from that grid location by hand (sterile nitrile glove) and submitted to an off-site DEP-certified analytical laboratory for PCB analysis. If subsequent laboratory analytical results for that soil sample were above 1 mg/kg (ppm), soil excavation continued deeper and more soil was removed from that same 25-square foot grid until concentrations were below 1 ppm, as confirmed through off-site laboratory analysis from a composite soil sample collected from that grid area.

To comply with the EPA’s performance-based option (one sample per 25 square feet), the 55 sample locations were increased to a total of 74 by the completion of soil removal activities.

Initial soil samples from a 25-square foot grid location would typically have a number associated with it (e.g., Sample I.D. "30"). If excavation in a grid area was required (i.e., initial sampling indicated PCB's > 1 ppm), the initial post-excavation sample from that grid location would be the grid locations appended with an X (e.g., Sample I.D. 30X). If the PCB results from that initial soil excavation were above 1 ppm, the composite soil sample collected (deeper) from that second excavation at that grid location would be "X2" (e.g., Sample I.D. 30X2); the sample collected (even deeper) from that third excavation would be "X3" (e.g., Sample I.D. 30X3). This sample designation scheme was generally adhered to with some minor exceptions as noted in the summary tables (Appendix C, Table 1).

In addition to the collection of soil samples, two wipe samples were collected from existing residential surfaces in direct contact with the PCB-impacted soils. Wipe sample I.D. "House" was collected from approximately 1 inch below grade along surface of the residential structure following excavation in the vicinity of soil sampling location 8. Soil sample I.D. "PTW" was collected from approximately six inches below grade along the pressure treated wood wall following excavation in the vicinity of soil sample location 16. Laboratory analysis of wipe samples indicated PCB concentrations below laboratory detection limits (Appendix C, Table 2).

During the week of November 5th, 11th, and 17th, following the receipt of laboratory results indicating that PCB concentrations in each of the 25-square foot grids were below 1 ppm, fill was imported and graded on the Site by North Creek Construction to restore previous site grades. During backfilling, hay bales and a vertical geotextile marker barrier were placed at approximately 0-12" below grade along the property line between the site and 39 Prospect Avenue to prevent migration of the PCB-contaminated soils from 39 Prospect Avenue and the Site. The imported fill was tested for RCRA 8 metals, PCB's and Extractable Petroleum Hydrocarbons to ensure concentrations below residential cleanup standards (Appendix E). Following grading activities, the filled area was hydroseeded.

6.3 Off-Site Disposal (December, 2013)

On December 2, 9, and 23, 2013, soils and commingled debris were shipped off-site from the fenced staging area on 39 Prospect Avenue to Waste Management's landfill in Model City, NY.

PCB-impacted debris was shipped off-site on December 31, 2013 to Wayne Disposal Inc.'s landfill in Belleville, Michigan. Manifests are attached in Appendix A.

6.4 Health & Safety/Decontamination

All activities conducted as part of the IRA were completed in accordance with a North Creek Construction site-specific health and safety plan. Soils were wetted down to minimize dust generation. Daily continuous air monitoring was conducted during all times when soil excavation activities were ongoing. The air monitoring was conducted at the perimeter of the site at a downwind location using a TSI Dustrak® Air Monitoring meter. Background readings were collected at the beginning of each day prior to the commencement of excavation activities and at upwind locations periodically throughout the day to ensure that downwind PM-10 particulate concentrations were consistent with background. Downwind readings during the excavation activities averaged 0.018-0.03 mg/m^3 and were consistent with background/upwind concentrations. During the excavation activities, air samples were collected upwind and downwind of the excavation by pumping air through a filter which was connected to a 5 liter/minute air pump. The filters were subsequently submitted to an off-site analytical laboratory for TO-10A analysis. PCB levels at both upwind and downwind locations were not detected above laboratory detection limits (Appendix C, Table 3).

Entrance within the soil excavation area was restricted by fencing put up as part of the IRA activities and was removed when excavation activities were completed.

Equipment (vacuum boxes, vacuum truck, roll-off containers) was staged on 39 Prospect Avenue (RTN 4-22776). Prior to staging this equipment, 3-inch thick plywood was placed on the lawn of 39 Prospect Avenue to minimize dust generation, cross contamination of soil contaminants onto the staged equipment, and migration of soil contaminants within 39 Prospect Avenue. Equipment that came into contact with potentially contaminated media was either pressure washed to remove solids, or disposed of as TSCA waste. Wipe samples were collected along the surface of decontaminated materials to ensure adequacy of decontamination (Sample I.D.'s: Mustang, Case, V28, V357, V34, V303, APCSmall, APCLarge, V28, V34, and Bobcat). All of these wipe sampling results were below laboratory detection limits (Appendix C, Table 2). All

decontamination activities were performed on 39 Prospect Avenue; wash water was directed onto the soils in a designated 30-foot diameter confined area at the center of lawn area of 39 Prospect Avenue. Personal Protective Equipment (PPE) and other disposal construction materials that came into contact with contaminated media were disposed of properly as TSCA PCB remediation waste (Appendix D, Photos). The plywood boards and the hose used for vacuuming the soils are currently staged at 39 Prospect Avenue to be potentially re-used during the site cleanup of RTN 4-22776.

7.0 Method 1 Risk Characterization

This section presents an MCP Method 1 Risk Characterization for the Site in accordance with 310 CMR 40.0942(1)(c). The Method 1 Risk Characterization evaluates risk from the site relative to human health, public safety and welfare and the environment.

A Method 1 Human Health Risk Characterization (310 CMR 40.0970) makes use of numerical standards for chemicals in groundwater and soil to characterize risks to health of people present at the site. A Method 1 Risk Characterization can be used when standards exist for all the oil and hazardous chemicals discovered at the site in these media.

The analytical results of the environmental sampling described in previous sections above were compared to MCP cleanup standards to assess Site risks. A Method 1 Risk Characterization was conducted in order to select the applicable cleanup standards for soil and groundwater at the Site. These cleanup standards were selected in accordance with 310 CMR 40.0970 for both current and foreseeable site uses. The basis for the selected cleanup standards for current and foreseeable Site uses is presented below.

7.1 Current Use

The Site is currently a residential property with residents actively occupying the on-site residential structure.

7.1.1 Applicable Groundwater Standards

The applicable "Groundwater Category" for the subject Site, as defined under the MCP (310 CMR 10.0932), was identified based on the following considerations:

1. **<u>Groundwater Category "GW-1" Standards:</u>** GW-1 groundwater standards are applicable to groundwater that is or could be used as drinking water (e.g., with in a "Zone II" aquifer protection area, interim wellhead protection area, "Potentially Productive" aquifer, or Zone A/Class A surface water body). As groundwater at the site is not within these areas, this GW-1 groundwater category does not apply.

2. **<u>Groundwater Category "GW-2" Standards:</u>** GW-2 groundwater standards are applicable to groundwater located within thirty feet of an existing occupied structure when depth to groundwater is fifteen feet or less. GW-2 standards account for potential exposure to vapors resulting from compounds in groundwater. Based on the elevation of the groundwater measured at 39 Prospect Avenue (10-15' bgs), it is estimated that the average depth to groundwater in the area within 30 feet of the existing occupied structure is less than fifteen feet and, therefore, the GW-2 cleanup standard does apply.

3. **<u>Groundwater Category "GW-3" Standards:</u>** Due to ecological exposure considerations, all groundwater in Massachusetts is classified as Category GW-3 (per 310 CMR 40.0932 [3]), including groundwater classified as Groundwater Category GW-1 or GW-2. This means that for those compounds for which GW-3 standards are more stringent than GW-1 or GW-2, the GW-3 standards apply.

7.1.2 Applicable Soil Standards

Soil Standards are determined based on potential exposure scenarios. The Site is currently used as a residential property, and immediately abuts residential properties. Pertinent aspects of the exposure scenario developed for the Site, using current Site conditions, are summarized as follows:

- Potential receptors include adults and children;
- Potential frequency of use is "high" (the impacted soils are in a residential area):
- Potential intensity of use is "high" (since the area is in a residential property; and
- The soil is considered "accessible" (impacted soil is present within a foot of the surface).

Based on this potential exposure scenario, and the provisions outlined under 310 CMR 40.0933, Soil Category "S-1", standards have been identified as applicable for characterization of risk of exposure to soil contaminants on the Site.

In addition to considerations of direct exposure to soil, indirect exposures could result from leaching of contaminants from soil into groundwater. As such, cleanup standards are also based in part on the category of groundwater, as defined under 310 CMR 40.0932, at or near potentially accessible soil.

Therefore, based upon the potential exposure scenario and the above groundwater classification, Soil Category S-1/GW-2/GW-3 has been identified as applicable for the Site's current uses.

7.2 Future or Foreseeable Use

The foreseeable future use for the Site is to continue to be a residential property. For purposes of this risk characterization, the future use of the Site is considered unrestricted.

7.2.1 Applicable Groundwater Standards

Due to the site's unchanged use, the GW-2/GW-3 standards will apply to the Site.

7.2.2 Applicable Soil Standards

Soil Standards applicable for risk characterization using a Method 1 (per 310 CMR 40.0970) are determined based on potential exposure scenarios. Pertinent aspects of the exposure scenario developed for the Site, assuming future Site conditions, are summarized as follows:

- Receptors include adults and children;
- Potential frequency of use is "high" for adults and children since future use of the Site is unrestricted;
- Potential intensity of use is "high" since future use of the Site is unrestricted; and
- The contaminated soil is "accessible" (impacted soils at the surface).

Based on potential exposure scenarios and the provisions outlined under 310 CMR 40.0933, soil standards have been identified as applicable for characterization of risk of soil on-Site. Soil

Category "S-1" would apply to the Site. Therefore, based upon the potential exposure scenario and the above groundwater classification, Soil Category S-1/GW-2/GW-3 has been identified as applicable for the Site's foreseeable future uses.

7.3 Discussion of Results

As presented in Table 1 of Appendix C, the average exposure point concentration (<1 ppm) of PCB contaminants in soil samples collected at the Site were below the applicable S-1/GW-2/GW-3 Method 1 Cleanup Standard of 2 ppm.

Therefore, the detected PCB contaminants remaining in the surface soils do not present a "significant risk" to human health.

7.4 Characterization of Risk of Harm to Public Welfare

The MCP defines two purposes for conducting a characterization of risk to public welfare: (a) to identify and evaluate nuisance conditions that may be localized, and (b) to identify and evaluate significant community effects. The characterization of risk to public welfare considers effects that are or may result from the presence of residual contamination or the implementation of a proposed remedial alternative (310 CMR 40.0994).

The characterization of the risk of harm to public welfare considers Site, receptor, and exposure information, as well as data collected pursuant to the response action(s) being performed.

The characterization of risk of harm to public welfare also considers such factors as the existence of nuisance conditions, loss of active or passive property use(s), and any non-pecuniary effects not otherwise considered in the characterization of risk of harm to health, safety, and the environment, but which may accrue due to the degradation of public resources directly attributable to the release or threat of release of OHM or the remedial alternative (310 CMR 40.0994(2)).

The risk of harm to public welfare is characterized by comparing the concentration of each OHM to the Upper Concentration Limits in Soil [as defined in 310 CMR 40.0996]. In addition, a level of no significant risk of harm to public welfare exists or has been achieved, if no nuisance conditions, such as noxious odors, persist. The average concentration of PCB's in soil (< 1 ppm) does not exceed the numerical UCL for PCB's (100 ppm). Non-aqueous phase liquid (NAPL) associated with this release has not been identified at this disposal Site.

Based on current site conditions, with impacted soils at the surface, the Site has not been shown to possess an odor at close range.

Therefore, there is No Significant Risk to public welfare at the Site under current and foreseeable future conditions.

7.5 Characterization of Risk of Harm to Safety

The risk of harm to safety, as described in 310 CMR 40.0960, was evaluated for the Site. The Site does not exhibit the following safety-related characteristics:

1. There are no rusted or corroded drums or containers, open pits, lagoons, or other dangerous structures at the Site;
2. There is no threat of fire or explosion from the presence of explosive vapors resulting from the release of OHM at the Site; and
3. There are no containerized materials at the Site exhibiting the characteristics of corrosivity, reactivity, or flammability.

Therefore, there is not a risk of harm to safety due to conditions at the Site.

7.6 Characterization of Risk of Harm to the Environment

For the purposes of characterizing risk of harm to the environment, the size of undeveloped/open land at the Site determines the specific evaluation of terrestrial environments. MADEP (1996) states that for the purposes of the screening process, undeveloped/open land is characterized by

the presence of native vegetation, and does not include landscaped residential and commercial parcels, landscaped parks, or golf courses.

Based on this MADEP definition, the open space on the Site is less than 2 acres in size (approximately ½ acre in size). Therefore, no further action to characterize ecological risk is required for sites unless:

1. Contaminant transport from surface soil to an Area of Critical Environmental Concern (ACEC) is possible, or
2. State-listed threatened or endangered species, or other species of special concern are present.

The Site is not within a mapped location of state-listed threatened or endangered species, or other species of special concern. Based on the above information, it is determined that there is currently No Significant Risk to the environment from OHM detected in soils at the Site.

8.0 MCP Representativeness Evaluation

In accordance with the DEP's Policy Guidance #WSC-07-350, ***MCP Representativeness Evaluations and Data Usability Assessments***, this section supports the conclusions that: (1) disposal site conditions have been adequately characterized, (2) risks to health, safety, public welfare and the environment have been adequately addressed (all exposure points have been identified, exposure point concentrations meet the applicable cleanup requirements), and (3) all sources have been eliminated or controlled, to the extent possible. Pursuant to the DEP Policy described above, the data set relied upon to support the RAO is: (a) scientifically valid and defensible, and of sufficient accuracy, precision and completeness; and (b) representative with regards to the spatial and temporal distribution of sampling points.

8.1 Conceptual Site Model

The conceptual site model of the release attempts to answer two main questions: (1) how did the release come to be, and (2) where did it go. The Site contaminant was PCB's and was released in soils at concentrations in excess of 1 ppm within western third of 37 Prospect Avenue. PCB's,

when released to the environment, are a very stable contaminant that doesn't break down readily over time.

In general, there are a variety of potential PCB sources in addition to more commonly recognized sources such as electrical transformer and capacitor oils and fluorescent light ballasts. These include building materials such as adhesives, asphalt roofing materials, caulking, grout, paints, and tar paper. The highest concentrations of PCB's were detected within the middle area of the Site excavation that contained these types of building materials (i.e., tar paper, asphalt roofing materials) that were likely generated by house renovations. As detailed earlier, this Site was reportedly the former location of a U.S. government-operated coastal observation post. Hence, the waste material could have either been generated through the conversion of the on-site structure from this observation post to today's residential structure, or subsequent renovations on the existing structure, or both. No direct sampling of the waste material was conducted to confirm the PCB content in the waste; it was excavated, transported and disposed off-site as TSCA waste.

In the past 5-10 years, landscaping improvements were reportedly conducted through the placement of fill along the northwestern side of the Site in order raise grades and avoid wash-outs onto the Site driveway. Fill and topsoil were imported to the Site. When the top three inches of this material was tested as part of the initial Site characterization, PCB's in excess of 1 ppm were detected in the top three inches of the topsoil. The fill imported to the Site could have been a source of PCB's. PCB's were also detected above laboratory detection limits on the other side of the driveway in the Site's front lawn. These could have been transported through wind-blown dust and/or lawn mowing.

The Site was initially investigation by Aquarion, owner of the adjacent site due to PCB impacts at 39 Prospect Avenue; elevated concentrations of PCB were detected at the fence line between 39 Prospect Avenue and the Site, and PCB-impacted soils could have been transported onto the Site through stormwater and wind-blown transport. The source of the PCB's on 39 Prospect Avenue has been attributed to either on-site fill that has been imported and placed at 39 Prospect Avenue (most recently, approximately ten years ago to alleviate drainage concerns) or from paint

applied to the former raised water tanks (>250,000 gallons) which have since been removed. Paint surfaces from the water tank standpipe and concrete base have been wipe tested and bulk tested, however, and maximum PCB concentrations are less than 5 ppm, which doesn't match up with maximum PCB concentrations detected within 39 Prospect Avenue (> 100 ppm). In short, the exact source of the PCB-impacts is unknown, but is attributed to one or a combination of the sources listed above. With the highest concentrations of PCB's at the site in the same location as the building waste materials, it is very likely that the waste material was a primary source.

Determination of the nature and extent of PCB contamination above 1 ppm in soils was fairly straightforward given the tight 25-square foot performance-based cleanup grid sampling requirements imposed by EPA. Pre-characterization sampling largely defined the horizontal limits of the excavation – the eastern limits were defined by the driveway, house, and samples 8XX, 19XX, 9, and 10. Northern limits were defined by samples 22, 11ZZ and 11YY. Southern limits were defined by samples 21, 42, and 63, and the western limits were defined by 39 Prospect Avenue, which is still a release site that requires response actions under the Massachusetts Contingency Plan. Vertical limits were largely defined by the absence of fill/topsoil, and the presence of tan silt/clay.

8.2 Use of Field/Screening Data

Visual observations (change in soil strata) were largely used at the site to initially estimate the depth of soil impacts. As detailed in Sections 5.1 and 6.2, PCB soil contamination was generally limited to the top layer of fill or topsoil. At both the Site and 39 Prospect Avenue, a consistent layer of light brown/tan silt/clay soils was beneath this fill/topsoil, which was largely absent of elevated concentrations of soil contaminants, although in some grid locations, an additional 3-6 inch deep excavation was required to meet the cleanup criteria of 1 ppm.

Screening devices for PCB's in soil are commercially available (e.g., Chlor-n-Soil®), however the sensitivity of these devices is unreliable below 5 ppm. Given the criteria of 1 ppm under EPA's performance-based cleanup criteria, no screening devices were used.

Once the excavation limits within an area had been reached based on visual observations indicating a lack of fill/topsoil, a composite soil sample was collected for lab analysis to confirm the limits of excavation. Hence no field/screening data were used to directly support this RAO.

8.3 Sampling Rationale/Number, Spatial Distribution & Sample Handling

Given the conceptual site model, the sampling and analysis plan focused on ensuring that the release did not migrate further vertically while also being robust enough to delineate the disposal site boundaries and demonstrate source elimination and control. The size of the release was relatively small (<0.1 acre), and given how the laboratory results closely matched the conceptual site model described in Section 8.1 (i.e., it was where it was expected at approximately the depth it was expected; any additional excavation was associated with pockets of fill (middle and northern portion of the excavation) that had not previously been observed during pre-IRA sampling activities), the collection of samples at seventy-four 25-square-foot grid locations was robust and in accordance with EPA post-excavation performance-based criteria (40 CFR 761) and is therefore considered adequate.

Wipe sampling was conducted in the heaviest PCB contaminated area (against the Pressure-Treated wood in the middle of the excavation) at the Site. Both wipe samples from this area and against the residence were collected along surfaces that had been in direct contact with PCB-impacted soils. As detections of PCB's in these samples were below detection limits, no further wipe testing was considered necessary.

Groundwater adjacent to the Site had been collected from monitoring wells previously installed at 39 Prospect Avenue. Groundwater was measured at approximately ten feet below ground surface and PCB's were not detected above laboratory detection limits in groundwater samples collected from these wells. In addition, as the maximum detection of PCB's in soils at the Site were below 1 ppm at the excavation limits, and groundwater elevations were at least 5 feet below a tight layer of silt/clay, collection of groundwater samples beneath the Site to confirm the absence of elevated concentrations of PCB's in groundwater was not considered necessary. PCB's have low water solubility and strong affinity to organic material (topsoil).

8.4 Temporal Distribution of Samples

Given the nature of PCB properties (stable, non-volatile), the low/absence of residual contaminant concentrations in soils collected no increase/seasonal variability of the concentrations of PCB's are anticipated.

8.5 Completeness/Inconsistency and Uncertainty

No data gaps were identified following a review of the data. Pre-excavation assumptions (how deep, how far to excavate) were consistent with post excavation conditions only in the southern third of the excavation (furthest from Prospect Avenue), where the average depth of excavation was generally consistently six inches and PCB impacts were < 1 ppm once the topsoil fill was removed. Additional excavation did need to occur in some grids in this area, but only an additional 3 inches into the tight silt/clay.

Pre-excavation assumption on the horizontal limits of the excavation were general consistent in the northern two-thirds of the excavation, however the vertical limits were inconsistent largely due to the presence of fill which was up to 4 feet below grade.

There is little uncertainty to the conclusions reached on this Site (i.e., site closure) due to (1) the tight density of samples, (2) the consistent pattern of PCB contamination/absence of contamination where it was generally observed (topsoil/fill)/not observed (light brown clay/silt), (3) the adherence to EPA's performance-based sampling criteria, (4) consistency with the Conceptual Site Model.

No groundwater and limited wipe sampling were conducted at the Site due to the rationale cited in section 8.3.

Inconsistency in the labelling protocol outlined in Section is cleared up when looking at the samples collected within each grid area and the date that the sample was collected (a sample collected from a grid area on a later date than other samples collected from that same grid area was collected following excavation in that grid area on the date the sample was collected). Table

1 (Appendix C) groups the samples by grid area and then by date collected. The final sample(s) collected in each are highlighted in yellow.

8.6 Information Considered Unrepresentative

No data collected was considered unrepresentative of current site conditions.

9.0 MCP Data Usability Assessment

In accordance with the DEP's Policy #WSC-07-350, ***MCP Representativeness Evaluations and Data Usability Assessments***, this section supports the conclusions that: (1) the analytical data points are scientifically valid and defensible, (2) the analytical data were of a sufficient level of precision, accuracy, and sensitivity to support the RAO, (3) the samples that were collected and delivered to the laboratory were representative of a sampling point at the Site.

9.1 Analytical Data Usability Assessment

As detailed in the attached laboratory analytical reports and summarized in Table 4 (Appendix C, data usability assessment), all data generated as part of this Site Investigation were compliant with the DEP's Compendium of Analytical Methods (DEP Policy #WSC-02-0320) except as detailed below. The MCP activities which provided the analytical data reviewed in the course of conducting the Data Usability Assessments in support of the RAO are as follows: Laboratory Analytical Reports: 1309443, 1309445, 1309449, 1309450, 1309451, 1309452, 13J1064_1, 13J1211_1, 1310392, 1310393, 1310427, 1310454, 1310512, 1310513, 1310514, 1310566, and 1311020..

The samples considered Critical to site closure were the samples highlighted in yellow in Table 1 of Appendix C as these were the samples collected within the Conceptual Site Model limits of release following the soil excavation. All other soils represented by the remaining soil samples were removed during the IRA excavations.

The methods to evaluate the concentrations of PCB's in soils are Massachusetts DEP standard laboratory analytical methods and are presumptively assumed to be adequate. The sensitivity of the CAM compliant data was consistent with the project-specific objectives; laboratory detection

limits for the contaminants of concern were below the applicable cleanup standards for these contaminants (1 ppm).

The lab reports listed above met the requirements for Presumptive Certainty Status. There were minor analytical anomalies or non-conformances noted by the laboratory of the 190 samples collected in the past two months, however as detailed in Table 4, those samples were either related to samples which were subsequently excavated or not related to site-specific contaminants of concerns (e.g., disposal waste characterization). The quality of the data representing contaminant concentrations in the closure samples collected following the completion of excavation activities in each grid area were sufficient to make proper risk- based decisions.

9.2 Field Data Usability Assessment

All samples were collected properly in the field using pre-cleaned sampling equipment as well as using laboratory-supplied sampling containers (pre-cleaned glass jars) and preservatives to ensure minimizing the loss/degradation of contaminants of concern. Based on the size of the release and the dense sampling grid, seventy-four soil samples over an area less than 0.1 acres were determined sufficient to determine the nature and extent of contamination, and sixteen soil samples were considered sufficient to determine site closure following excavation. The soil sample duplicates (Table 1, Appendix C) were in reasonable agreement for purposes of characterizing risk. No field quality control issues were identified that would limit the use of the data presented in support of the RAO. No data was rejected pursuant to Appendix IV of DEP Policy #WSC-07-0350.

10.0 Feasibility of Restoration to Background

The MCP (310 CMR 40.0860) requires that a Permanent Solution be implemented at each release site “to the extent feasible” to achieve or approach background. As defined in 310 CMR 40.0006, background concentrations of oil or hazardous materials are defined as, “those levels of oil and or hazardous material that would exist in the absence of the disposal site of concern which are either:

- Ubiquitous and consistently present in the environment at and in the vicinity of the disposal site of concern; attributable to geologic or ecological conditions, or
- atmospheric deposition of industrial process or engine emissions;
- Attributable to coal as or wood ash associated with the fill material;
- Releases to groundwater from a public water supply system; or
- Petroleum residues that are incidental to the normal operation of motor vehicles.

If background is not achieved, the MCP requires justification that reducing contamination to or approaching background is infeasible by meeting one or more of the exemptions listed in 310 CMR 40.0860(5). Following remedial actions, background conditions must be achieved unless one or more of the following criteria are met:

- The alternative is not technologically feasible, as specified in 310 CMR 40.0860(6); or
- The costs of conducting, or the risks resulting from the response action would not be justified by the benefits, considering such factors as potential damage to human health or the environment, costs of environmental restoration, long-term operation and maintenance costs, and non-pecuniary values; or,
- Individuals with the expertise needed to effectively implement the alternative would not be available, regardless of the arrangements made for securing their services; or,
- The alternative would necessitate land disposal other than at the site itself and no off-site facility is available in the Commonwealth or in other states that is in full compliance with all applicable federal and state regulatory requirements; or,
- An alternative is selected for a portion of a disposal site for which the source of the oil and/or hazardous material is not located thereon, and the elimination or control of such source cannot currently be achieved by the party conducting the response actions at that portion of the site.

The IRA was developed with the intent to reduce site contamination to a level of No Significant Risk. Following the completion of excavation activities, PCB's were detected within the site limits at an average concentration of less than 1 ppm.

When determining the feasibility of restoring all areas of the site to background levels, a Benefit-Cost Evaluation was used as outlined in DEP's policy guidance (MassDEP, 2004). In accordance with section 9.3.3.4 of this policy, in cases where it is technically feasible to achieve background conditions it will be considered feasible to conduct remedial actions to approach background conditions if the additional costs to remediate beyond No Significant Risk are equal to or less than 20 percent of the cost to remediate to No Significant Risk.

Concentrations of PCB's we below 1 ppm but above laboratory detection limits in approximately 80% of the grid areas following IRA activities. Background concentrations of PCB's (i.e., below laboratory detection limits) in areas with some of the highest concentrations of PCB's and where the location of fill material was the most obvious (Grid Area 32) indicated that background concentrations were present six inches below where they were detected (i.e., detectable levels of PCB's weren't leaching beyond six inches from where they were detected).

Assuming that an additional 6 inches of additional soil would then be required to achieve background concentrations within the remaining approximately 80% of the 1850 square-foot horizontal limits of the IRA excavation, an additional 300 yards ((0.5 ft x 0.8 x 1,850 square feet)/27) would be required to be excavated, transported and disposed. This volume would represent a volume in excess of 20% (~27%) of the volume of impacted soils excavated as part of the IRA (100 tons). As the volume excavated is directly proportional to costs (cost of excavation and disposal), it is considered infeasible to reduce contaminant concentrations to background levels from a cost-benefit analysis, especially considering that this soil quantity does not include the additional soil excavation required to reached background concentrations in PCB's beyond the current horizontal limits of the IRA excavation.

11.0 Public Notifications

Letters notifying the Town of Hull of the availability of this report are included in Appendix F. These letters fulfill the public notification requirements of 310 CMR 40.1403(3)(e) The Hull Board of Health Director and Town Administrator were verbally briefed of the IRA activities prior to their commencement and at their conclusion. A BWSC-122 form with a copy of this RAO report was mailed to Mr. and Mrs. Peaslee, Site owners, who were briefed on a routine basis during IRA activities.

12.0 Conclusions

Based on activities completed to date, Environmental Partners Group presents the following conclusions:

1. Immediately Response Action (IRA) activities successfully excavated, and disposed off-site a total of approximately 100 cubic yards of PCB-impacted soils and 30 cubic yards of debris.

2. The average concentrations of contaminants of concern (i.e., PCB's) in soils are below applicable cleanup standards and do not pose a Significant Risk to human health, safety, public welfare and the environment.

3. A Permanent Solution, as defined in the 310 CMR 40.0000, has been achieved and an Activity and Use Limitation (AUL) is not required to maintain a level of "No Significant Risk"; and

4. A Class A-2 Response Action Outcome (RAO), in accordance with 310 CMR 40.1046, applies to the Site. The appropriate BWSC forms and submittals have been prepared and are appended to this report.

13.0 Limitations

The purpose of the work conducted by Environmental Partners Group was to assess the physical characteristics of the Site with respect to the release of constituents of concern detected during an investigation of the Site in 2013.

The conclusions contained in this report are based on observation of surface and subsurface conditions during MCP activities, the observation of soils, and the laboratory analysis of soil, collected at the Site. No other attempts were made to observe further subsurface conditions.

This Site investigation and risk characterization has been conducted in accordance with the generally accepted practices in place at the time that the assessment was conducted. No further warranty, expressed or implied, is made.

The Class A-2 RAO Statement was prepared for the exclusive use of Aquarion. The conclusions drawn by Environmental Partners Group are based solely on information gathered to date. Information that may be gathered in the future may modify the conclusions and opinions reported herein. This report has been prepared in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.

14.0 References

DEP, 2002 ***Technical Update, Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil***, Massachusetts Department of Environmental Protection, 2002

DEP, 2004 ***Conducting Feasibility Evaluations under the MCP, Policy #WSC-04-160,*** Massachusetts Department of Environmental Protection, July 16, 2004.

Peaslee, 2013 Multiple Conversations between Mr. Paul Peaslee (Site Owner) and C. Carter Fahy, LSP, Environmental Partners Group between September 19, 2013 and October 28, 2013.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP781740699 2

2. Page 1 of 1

3. Emergency Response Phone: 800-888-1865

4. Manifest Tracking Number: 011970636 JJK

5. Generator's Name and Mailing Address
Aquarion Water Company
900 Main Street
Hingham MA 02043
Generator's Phone: 781 740-6694

Generator's Site Address (if different than mailing address)
37 Prospect Avenue
Hull MA 02045

6. Transporter 1 Company Name: New England Disposal Technologies, Inc.
U.S. EPA ID Number: MAC300008059

7. Transporter 2 Company Name: New England Disposal Technologies, Inc.
U.S. EPA ID Number: MAC300008059

8. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville MI 48111
Facility's Phone: 800 592-5489
U.S. EPA ID Number: MID048090633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ UN3432, Polychlorinated biphenyls, solid 9, PGII	12	CF	550	K	MA02	PC86	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1)PCB Contaminated Remediation Debris ERG#171
T139118WDI
Unique Drum #'s: 12313-1 — 12313-12
Out of Service Date: 12-31-13
Job# 01-15283

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sean P. Conkley
Signature: X [signature] for Sean P. Conkley
Month 12 Day 31 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Shawn M. Fad
Signature: [signature]
Month 12 Day 31 Year 13

Transporter 2 Printed/Typed Name: PAC Black
Signature: [signature]
Month 01 Day 06 Year 14

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H010 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Wesly
Signature: [signature]
Month 1 Day 16 Year 14

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP781740699 2
2. Page 1 of 1
3. Emergency Response Phone: 800-698-1865
4. Manifest Tracking Number: 011970570 JJK

5. Generator's Name and Mailing Address
Aquarion Water Company
900 Main Street
Hingham MA 02043
Att: Sean Coakley

Generator's Site Address (if different than mailing address)
37 Prospect Avenue
Hull MA 02045

Generator's Phone: 781 740-6994

6. Transporter 1 Company Name
New England Disposal Technologies, Inc.
U.S. EPA ID Number: MAC300008059

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	65	K	MA02	B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1)NY301780 Soil & Debris with PCB's >50ppm ERG#171
8/16/3154
rec'd 8/16/K

Out of Service Date:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sean P Coakley agent for Aquarion
Signature:
Month Day Year: 12 10 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible]
Signature:
Month Day Year: 12 10 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Overshipment Rec'd 8/16/K
18b. Alternate Facility (or Generator)
Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.
Printed/Typed Name: Jody Pachuski
Signature:
Month Day Year: 12 10 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP781740699 2
2. Page 1 of 1
3. Emergency Response Phone: 800-696-1665
4. Manifest Tracking Number: 011970571 JJK

5. Generator's Name and Mailing Address
Aquarion Water Company
900 Main Street
Hingham MA 02043
Att: Sean Coakley
Generator's Phone: 781 740-6994

Generator's Site Address (if different than mailing address)
37 Prospect Avenue
Hull MA 02045

6. Transporter 1 Company Name
New England Disposal Technologies, Inc.
U.S. EPA ID Number: MAC300008059

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	EST	K	MA02	B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1)NY301780 Soil & Debris with PCB's >50ppm ERG#171
Out of Service Date:
816385
rec'd 102WK

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sean Coakley Aquarion Water Co
Signature:
Month Day Year: 1 9 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name:
Signature:
Month Day Year: 12 19 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Allegestar total rec'd 102WK
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jody Pavlinski
Signature:
Month Day Year: 12 10 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) MAP817406692 QP 12/21/13

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP7817406692
2. Page 1 of 1
3. Emergency Response Phone: 800-698-1865
4. Manifest Tracking Number: 011970573 JJK

5. Generator's Name and Mailing Address
Aquarion Water Company
900 Main Street
Hingham MA 02043
Att: Sean Coakley
Generator's Phone: 781 740-6994

Generator's Site Address (if different than mailing address)
37 Prospect Avenue
Hull MA 02045

6. Transporter 1 Company Name: New England Disposal Technologies, Inc.
U.S. EPA ID Number: MAC300008059

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	FST. 22000	K	MA02	B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1)NY301780 Soil & Debris with PCB's >50ppm ERG#171
Out of Service Date: 12/23/13
SR# 1018447

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sean Coakley
Signature:
Month 12 Day 23 Year 13

16. International Shipments ☑ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Pete Olsen
Signature:
Month 12 Day 23 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Judy Parfinski
Signature:
Month 12 Day 27 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP781740699 2
2. Page 1 of 1
3. Emergency Response Phone: 800-898-1865
4. Manifest Tracking Number: 011970574 JJK

5. Generator's Name and Mailing Address
Aquarion Water Company
900 Main Street
Hingham MA 02043
Attn: Sean Coakley

Generator's Site Address (if different than mailing address)
37 Prospect Avenue
Hull MA 02045

Generator's Phone: 781 740-6994

6. Transporter 1 Company Name: New England Disposal Technologies, Inc.
U.S. EPA ID Number: MAC300006059

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	~~ESS~~ 12.727	K	MA02 B007
	2.					
	3.					
	4. Liner failed, container should be decontaminated in accordance with 40 CFR 761.79.					

14. Special Handling Instructions and Additional Information
1)NY301780 Soil & Debris with PCB's >50ppm ERG#171
STR # 1016556-2
81663045
Out of Service Date: 11-15-13
rec'd 10161K

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sean P Coakley Agent for Aquarion
Signature: [signature]
Month 12 Day 02 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bradley S Bayard
Signature: [signature]
Month 12 Day 02 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Charged on final rec'd 10161K
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jordy Parkinson
Signature: [signature]
Month 12 Day 3 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP7817406992
2. Page 1 of 1
3. Emergency Response Phone: 800-696-1865
4. Manifest Tracking Number: 011970575 JJK

5. Generator's Name and Mailing Address
Aquarion Water Company
900 Main Street
Hingham MA 02043
Attn: Sean Coakley
Generator's Phone: 781 740-6994

Generator's Site Address (if different than mailing address)
37 Prospect Avenue
Hull MA 02045

6. Transporter 1 Company Name: New England Disposal Technologies, Inc.
U.S. EPA ID Number: MAC300008059

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	EST 10,900	K	MA02	B007	
	2.							
	3.							
	4.							

Liner failed, container should be decontaminated in accordance with 40 CFR 761.79.

14. Special Handling Instructions and Additional Information
1)NY301780 Soil & Debris with PCB's >50ppm ERG#171

Out of Service Date: 11-15-13

81616047
rec'd 8172K

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Sean P Coakley Signature: [signature] Month 12 Day 12 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Pete Blash Signature: [signature] Month 12 Day 12 Year 13
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Almost actual rec'd 8172K
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] Signature: [illegible] Month 12 Day 13 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

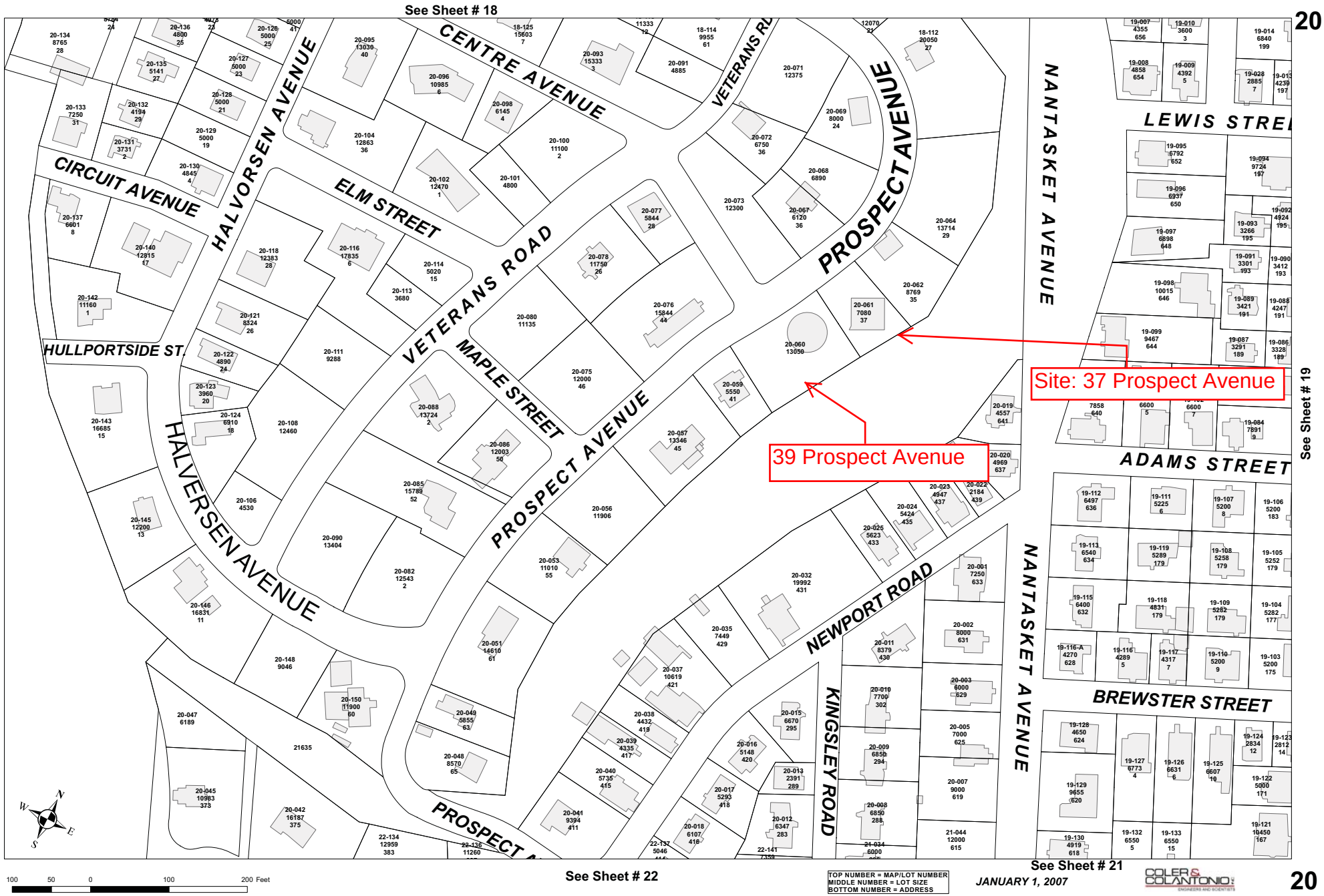
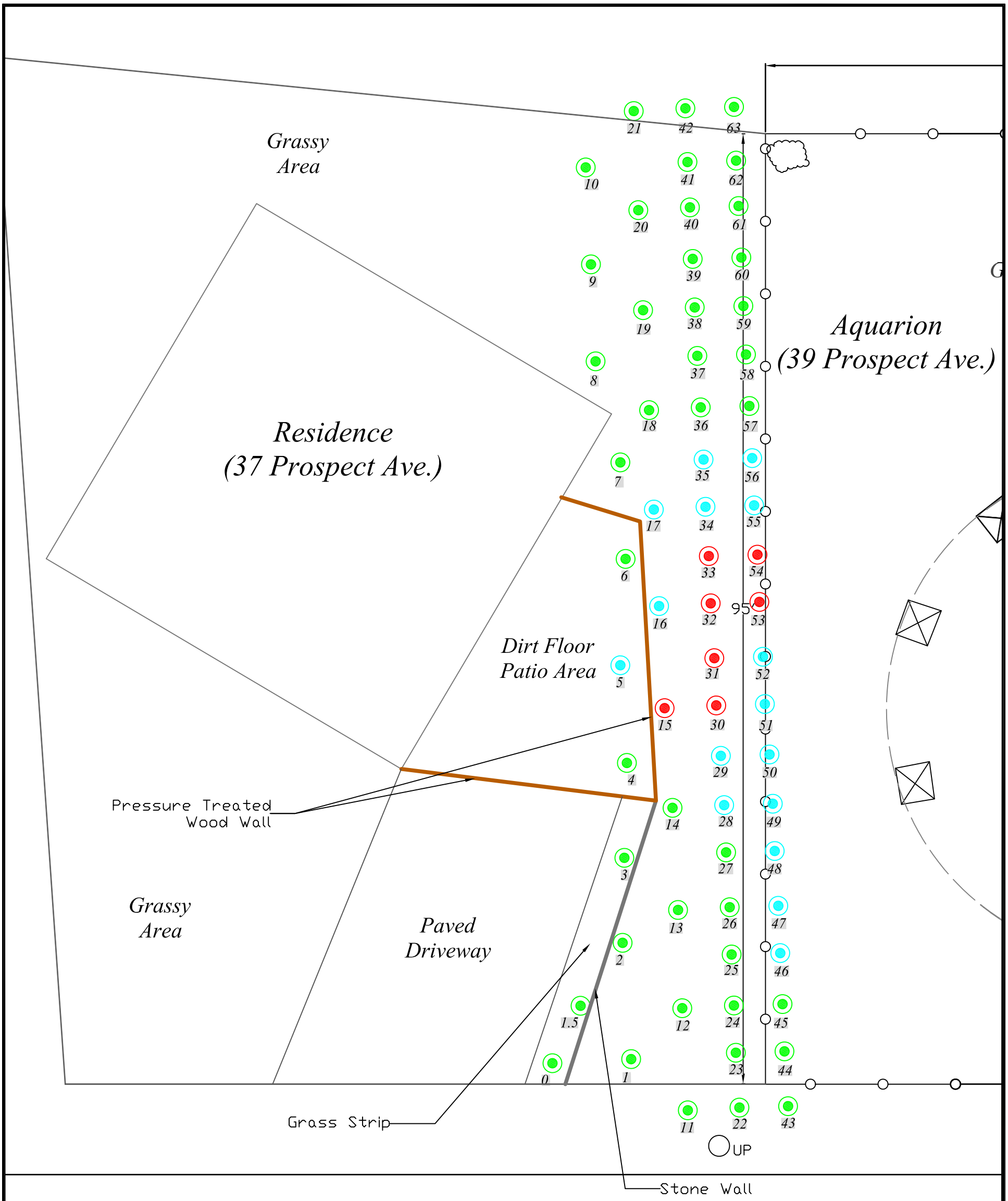


Figure 1: Site Map
RTN 4-24815



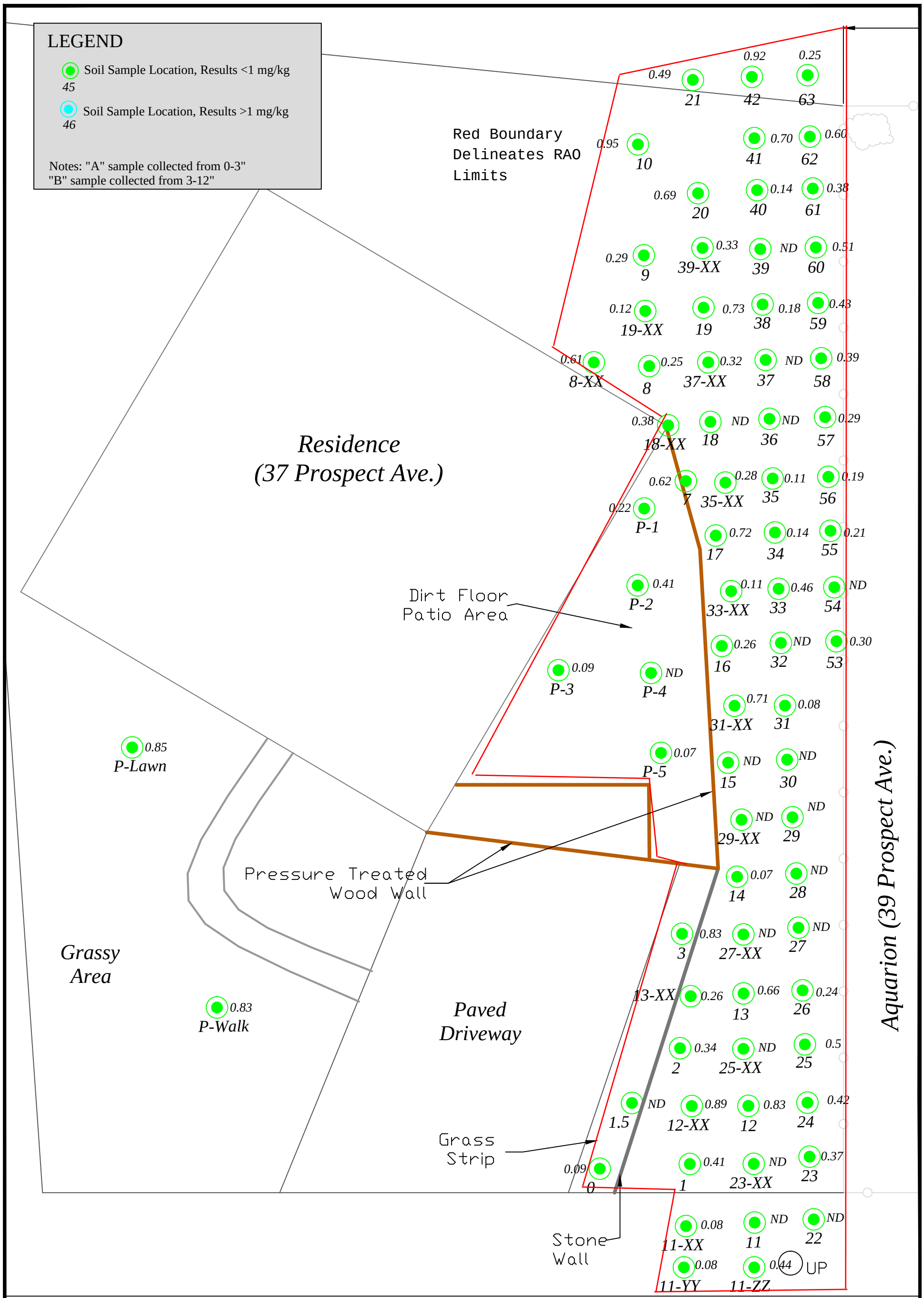
LEGEND

- Soil Sample Location, Results <2 mg/kg (45)
- Soil Sample Location, Results >2, <10 mg/kg (46)
- Soil Sample Location, Results >10 mg/kg (30)

NOTES:
Results shown on 37 Prospect Ave were all found in the top 3" of soils, with the exception of:
Sample 54: >10 in top 3", >2 down to 12" below surface
Sample 33: >10 in top 3", >2 down to 12" below surface
Sample 31: >2 in top 3", >10 down to 12" below surface

Figure 2 Pre-IRA PCB Sampling Peaslee Property - 37 Prospect Avenue	Scale	1" = 10'
	Date	10/7/13
Aquarion - Former Strawberry Hill Tank Site Hull, Massachusetts	Job No.	P13-0071.00
	Drawn by	NMP

Environmental Partners GROUP
A partnership for engineering solutions.
Quincy, MA www.envpartners.com



PROSPECT AVENUE

Paved Roadway

Figure 3: Post-IRA Soil Concentrations Peaslee Property - 37 Prospect Avenue	Scale 1:8 Date 10/31/13	Environmental Partners GROUP A partnership for engineering solutions. Quincy, MA www.envpartners.com
Aquarion - Former Strawberry Hill Tank Site Hull, Massachusetts	Job No. P13-0154.00 Drawn by NMP	

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	Front Lawn - Grassy Area				0				1				1.5			
	ClientSample:	**P-Lawn**		**P-Walk**		**0A**		**0x**		**1A**		**1B**		**1_5A**		**2A**	
	Sample Date:	**10/29/2013**		**10/29/2013**		**09/19/2013**		**10/22/2013**		**09/19/2013**		**09/19/2013**		**09/19/2013**		**09/20/2013**	
	Sample No.	**1310566-03**		**1310566-04**		**1309451-17**		**1310455-17**		**1309449-22**		**1309449-23**		**1309451-18**		**1309452-24**	
	Matrix	**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**	
Analyte	**Units**																
Aroclor 1016	mg/kg dry	0.0552	U	0..0525	U	0.053	U	0.0538	U	0.055	U	0.0552	U	0.0551	U	0.0577	U
Aroclor 1221	mg/kg dry	0.0552	U	0..0525	U	0.053	U	0.0538	U	0.055	U	0.0552	U	0.0551	U	0.0577	U
Aroclor 1232	mg/kg dry	0.0552	U	0..0525	U	0.053	U	0.0538	U	0.055	U	0.0552	U	0.0551	U	0.0577	U
Aroclor 1242	mg/kg dry	0.0552	U	0..0525	U	0.053	U	0.0538	U	0.055	U	0.0552	U	0.0551	U	0.0577	U
Aroclor 1248	mg/kg dry	0.162		0.195		0.452		0.0538	U	0.055	U	0.124		0.246		0.1	
Aroclor 1254	mg/kg dry	0.516		0.633		0.85		0.0919		0.055	U	0.283		0.4		0.298	
Aroclor 1260	mg/kg dry	0.178		0..0525	U	0.124		0.0538	U	0.055	U	0.0552	U	0.0551	U	0.113	
Aroclor 1262	mg/kg dry	0.0552	U	0..0525	U	0.053	U	0.0538	U	0.055	U	0.0552	U	0.0551	U	0.0577	U
Aroclor 1268	mg/kg dry	0.552	U	0.0525	U	0.053	U	0.0538	U	0.055	U	0.0552	U	0.0551	U	0.0577	U
TOTAL PCBS:		**0.856**		**0.828**		1.426		**0.0919**		**ND (<0.055)**		**0.407**		**0.646**		0.511	
Total Metals Solid																	
Arsenic	mg/kg																
Barium	mg/kg																
Cadmium	mg/kg																
Chromium	mg/kg																
Lead	mg/kg																
Mercury	mg/kg																
Selenium	mg/kg																
Silver	mg/kg																

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	2				3		P-1		P-2							
	ClientSample:	2x		2x2		3A		P-1		6A		6x		P-2		P-2	
	Sample Date:	10/21/2013		10/25/2013		09/20/2013		10/25/2013		09/19/2013		10/18/2013		10/25/2013		10/29/2013	
	Sample No.	1310427-05		1310512-14		1309452-25		1310512-12		1309451-16		1310393-02		1310512-13		1310566-01	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																
Aroclor 1016	mg/kg dry	0.0529	U	0.055	U	0.0572	U	0.0593	U	0.0777	U	0.058	U	0.0593	U	0.0573	U
Aroclor 1221	mg/kg dry	0.0529	U	0.055	U	0.0572	U	0.0593	U	0.0777	U	0.058	U	0.0593	U	0.0573	U
Aroclor 1232	mg/kg dry	0.0529	U	0.055	U	0.0572	U	0.0593	U	0.0777	U	0.058	U	0.0593	U	0.0573	U
Aroclor 1242	mg/kg dry	0.0529	U	0.055	U	0.0572	U	0.0593	U	0.0777	U	0.058	U	0.0593	U	0.0573	U
Aroclor 1248	mg/kg dry	0.562		0.055	U	0.183		0.0593	U	0.239		0.588		0.376		0.0573	U
Aroclor 1254	mg/kg dry	1.53	D	0.208		0.517		0.218		0.36		1.97	D	0.987		0.288	
Aroclor 1260	mg/kg dry	0.0529	U	0.127		0.126		0.0593	U	0.0777	U	0.058	U	0.0593	U	0.12	
Aroclor 1262	mg/kg dry	0.0529	U	0.055	U	0.0572	U	0.0593	U	0.0777	U	0.058	U	0.0593	U	0.0573	U
Aroclor 1268	mg/kg dry	0.0529	U	0.055	U	0.0572	U	0.0593	U	0.0777	U	0.058	U	0.0593	U	0.0573	U
TOTAL PCBS:		2.092		**0.335**		**0.826**		**0.218**		0.599		2.558		1.363		**0.408**	
Total Metals Solid																	
Arsenic	mg/kg	-		-													
Barium	mg/kg	-		-													
Cadmium	mg/kg	-		-													
Chromium	mg/kg	-		-													
Lead	mg/kg	-		-													
Mercury	mg/kg	-		-													
Selenium	mg/kg	-		-													
Silver	mg/kg	-		-													

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	P-3		P-4							P-5				
	ClientSample:	P-3		5A		5x	5xx		P-4		4A		4x	P-5	
	Sample Date:	10/25/2013		09/19/2013		10/18/2013	10/18/2013		10/25/2013		09/20/2013		10/18/2013	10/25/2013	
	Sample No.	1310513-06		1309451-15		1310392-10	1310393-01		1310513-07		1309452-26		1310392-07	1310513-08	
	Matrix	Solid		Solid		Solid	Solid		Solid		Solid		Solid	Solid	
Analyte	**Units**														
Aroclor 1016	mg/kg dry	0.0571	U	0.0643	U	<0.0567	0.0572	U	0.0572	U	0.0556	U	<0.0617	0.0563	U
Aroclor 1221	mg/kg dry	0.0571	U	0.0643	U	<0.0567	0.0572	U	0.0572	U	0.0556	U	<0.0617	0.0563	U
Aroclor 1232	mg/kg dry	0.0571	U	0.0643	U	<0.0567	0.0572	U	0.0572	U	0.0556	U	<0.0617	0.0563	U
Aroclor 1242	mg/kg dry	0.0571	U	0.0643	U	<0.0567	0.0572	U	0.0572	U	0.0556	U	<0.0617	0.0563	U
Aroclor 1248	mg/kg dry	0.0571	U	1.67	D	2.68	0.0572	U	0.0572	U	0.0901		2.88	0.0563	U
Aroclor 1254	mg/kg dry	0.0952		3.2	D	5.27	2.22	D	0.0572	U	0.265		6.25	0.0762	
Aroclor 1260	mg/kg dry	0.0571	U	0.0643	U	<0.0567	0.0572	U	0.0572	U	0.0556	U	<0.0617	0.0563	U
Aroclor 1262	mg/kg dry	0.0571	U	0.0643	U	<0.0567	0.0572	U	0.0572	U	0.0556	U	<0.0617	0.0563	U
Aroclor 1268	mg/kg dry	0.0571	U	0.0643	U	<0.0567	0.0572	U	0.0572	U	0.0556	U	<0.0617	0.0563	U
TOTAL PCBS:		**0.0952**		4.87		7.95	2.22		**ND (<0.0572)**		0.3551		9.13	**0.0762**	
Total Metals Solid															
Arsenic	mg/kg												-	-	
Barium	mg/kg												-	-	
Cadmium	mg/kg												-	-	
Chromium	mg/kg												-	-	
Lead	mg/kg												-	-	
Mercury	mg/kg												-	-	
Selenium	mg/kg												-	-	
Silver	mg/kg												-	-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	7				8				8xx						9	
	ClientSample:	7A		7x		8A		8x		8xx		8xx2		8yy (Dup for 8xx2)		9A	
	Sample Date:	09/19/2013		10/18/2013		09/19/2013		10/18/2013		10/18/2013		10/21/2013		10/21/2013		09/19/2013	
	Sample No.	1309451-11		1310393-25		1309451-12		1310393-14		1310393-13		1310427-09		1310427-12		1309451-13	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																
Aroclor 1016	mg/kg dry	0.0577	U	0.0537	U	0.0627	U	0.0544	U	0.0519	U	-	-	-	-	0.0564	U
Aroclor 1221	mg/kg dry	0.0577	U	0.0537	U	0.0627	U	0.0544	U	0.0519	U	-	-	-	-	0.0564	U
Aroclor 1232	mg/kg dry	0.0577	U	0.0537	U	0.0627	U	0.0544	U	0.0519	U	-	-	-	-	0.0564	U
Aroclor 1242	mg/kg dry	0.0577	U	0.0537	U	0.0627	U	0.0544	U	0.0519	U	-	-	-	-	0.0564	U
Aroclor 1248	mg/kg dry	0.239		0.0537	U	0.43		0.0544	U	0.0519	U	-	-	-	-	0.0564	U
Aroclor 1254	mg/kg dry	1.36	D	0.623		0.916		0.247		0.608		-	-	-	-	0.293	
Aroclor 1260	mg/kg dry	0.0577	U	0.0537	U	0.0627	U	0.0544	U	0.0519	U	-	-	-	-	0.0564	U
Aroclor 1262	mg/kg dry	0.0577	U	0.0537	U	0.0627	U	0.0544	U	0.0519	U	-	-	-	-	0.0564	U
Aroclor 1268	mg/kg dry	0.0577	U	0.0537	U	0.0627	U	0.0544	U	0.0519	U	-	-	-	-	0.0564	U
TOTAL PCBS:		1.599		**0.623**		1.346		**0.247**		**0.608**						**0.293**	
Total Metals Solid																	
Arsenic	mg/kg			-				-		-		-		-			
Barium	mg/kg			-				-		-		-		-			
Cadmium	mg/kg			-				-		-		-		-			
Chromium	mg/kg			-				-		-		-		-			
Lead	mg/kg			-				176		1070		1020		1270			
Mercury	mg/kg			-				-		-		-		-			
Selenium	mg/kg			-				-		-		-		-			
Silver	mg/kg			-				-		-		-		-			

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	10		11						11xx		11yy		11zz	
	ClientSample:	10A		11A		11B		11x		11xx		11yy		11zz	
	Sample Date:	09/19/2013		09/19/2013		09/19/2013		10/22/2013		10/22/2013		10/22/2013		10/22/2013	
	Sample No.	1309451-14		1309449-18		1309449-19		1310455-21		1310455-19		1310455-20		1310455-22	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**														
Aroclor 1016	mg/kg dry	0.0584	U	0.0536	U	0.0548	U	0.0538	U	0.0567	U	0.0551	U	0.052	U
Aroclor 1221	mg/kg dry	0.0584	U	0.0536	U	0.0548	U	0.0538	U	0.0567	U	0.0551	U	0.052	U
Aroclor 1232	mg/kg dry	0.0584	U	0.0536	U	0.0548	U	0.0538	U	0.0567	U	0.0551	U	0.052	U
Aroclor 1242	mg/kg dry	0.0584	U	0.0536	U	0.0548	U	0.0538	U	0.0567	U	0.0551	U	0.052	U
Aroclor 1248	mg/kg dry	0.348		0.0536	U	0.353		0.0538	U	0.0567	U	0.0551	U	0.132	
Aroclor 1254	mg/kg dry	0.6		0.0536	U	0.796		0.0538	U	0.079		0.0808		0.308	
Aroclor 1260	mg/kg dry	0.0584	U	0.0536	U	0.0548	U	0.0538	U	0.0567	U	0.0551	U	0.052	U
Aroclor 1262	mg/kg dry	0.0584	U	0.0536	U	0.0548	U	0.0538	U	0.0567	U	0.0551	U	0.052	U
Aroclor 1268	mg/kg dry	0.0584	U	0.0536	U	0.0548	U	0.0538	U	0.0567	U	0.0551	U	0.052	U
TOTAL PCBS:		**0.948**		ND (<0.0536)		1.149		**ND (<0.0538)**		**0.079**		**0.0808**		**0.44**	
Total Metals Solid															
Arsenic	mg/kg							-		-		-		-	
Barium	mg/kg							-		-		-		-	
Cadmium	mg/kg							-		-		-		-	
Chromium	mg/kg							-		-		-		-	
Lead	mg/kg							-		-		-		-	
Mercury	mg/kg							-		-		-		-	
Selenium	mg/kg							-		-		-		-	
Silver	mg/kg							-		-		-		-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	12						12xx		13						13xx	
	ClientSample:	12A		12x		12x2		12xx		13A		13x		13x2		13xx	
	Sample Date:	09/20/2013		10/21/2013		10/25/2013		10/22/2013		09/20/2013		10/21/2013		10/25/2013		10/21/2013	
	Sample No.	1309452-21		1310427-06		1310512-01		1310455-25		1309452-22		1310427-03		1310512-02		1310427-07	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																
Aroclor 1016	mg/kg dry	0.0554	U	0.055	U	0.0531	U	0.0538	U	0.0575	U	0.0571	U	0.0566	U	0.0505	U
Aroclor 1221	mg/kg dry	0.0554	U	0.055	U	0.0531	U	0.0538	U	0.0575	U	0.0571	U	0.0566	U	0.0505	U
Aroclor 1232	mg/kg dry	0.0554	U	0.055	U	0.0531	U	0.0538	U	0.0575	U	0.0571	U	0.0566	U	0.0505	U
Aroclor 1242	mg/kg dry	0.0554	U	0.055	U	0.0531	U	0.0538	U	0.0575	U	0.0571	U	0.0566	U	0.0505	U
Aroclor 1248	mg/kg dry	0.362		1.33	D	0.33		0.352		0.0608	P	2.76	D	0.253		0.0505	U
Aroclor 1254	mg/kg dry	0.602		3.73	D	0.5		0.547		0.259		7.07	D	0.412		0.135	P
Aroclor 1260	mg/kg dry	0.176		0.055	U	0.0531	U	0.0538	U	0.0575	U	0.0571	U	0.0566	U	0.129	
Aroclor 1262	mg/kg dry	0.0554	U	0.055	U	0.0531	U	0.0538	U	0.0575	U	0.0571	U	0.0566	U	0.0505	U
Aroclor 1268	mg/kg dry	0.0554	U	0.055	U	0.0531	U	0.0538	U	0.0575	U	0.0571	U	0.0566	U	0.0505	U
TOTAL PCBS:		1.14		5.06		**0.83**		**0.899**		0.3198		9.83		**0.665**		**0.264**	
Total Metals Solid																	
Arsenic	mg/kg			-		-		-				-		-		-	
Barium	mg/kg			-		-		-				-		-		-	
Cadmium	mg/kg			-		-		-				-		-		-	
Chromium	mg/kg			-		-		-				-		-		-	
Lead	mg/kg			-		-		-				-		-		-	
Mercury	mg/kg			-		-		-				-		-		-	
Selenium	mg/kg			-		-		-				-		-		-	
Silver	mg/kg			-		-		-				-		-		-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
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Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

GRID LOCATION		14				15						
ClientSample:		14A		14x		15A		15x	15x2		15x3	
Sample Date:		09/20/2013		10/25/2013		09/20/2013		10/18/2013	10/22/2013		10/25/2013	
Sample No.		1309452-23		1310512-07		1309452-27		1310392-08	1310455-02		1310512-09	
Matrix		Solid		Solid		Solid		Solid	Solid		Solid	
Analyte	**Units**											
Aroclor 1016	mg/kg dry	0.0551	U	0.0572	U	1.29	U, D	<0.0587	1.21	U, D	0.0654	U
Aroclor 1221	mg/kg dry	0.0551	U	0.0572	U	1.29	U, D	<0.0587	1.21	U, D	0.0654	U
Aroclor 1232	mg/kg dry	0.0551	U	0.0572	U	1.29	U, D	<0.0587	1.21	U, D	0.0654	U
Aroclor 1242	mg/kg dry	0.0551	U	0.0572	U	1.29	U, D	<0.0587	1.21	U, D	0.0654	U
Aroclor 1248	mg/kg dry	0.149		0.0572	U	5.59	D	1.81	7.8	D	0.0654	U
Aroclor 1254	mg/kg dry	0.479		0.0758		15.1	D	5.43	16.8	D	0.0654	U
Aroclor 1260	mg/kg dry	0.0551	U	0.0572	U	1.29	U, D	<0.0587	1.21	U, D	0.0654	U
Aroclor 1262	mg/kg dry	0.0551	U	0.0572	U	1.29	U, D	<0.0587	1.21	U, D	0.0654	U
Aroclor 1268	mg/kg dry	0.0551	U	0.0572	U	1.29	U, D	<0.0587	1.21	U, D	0.0654	U
TOTAL PCBS:		0.628		**0.0758**		20.69		7.24	24.6		**ND (<0.0654)**	
Total Metals Solid												
Arsenic	mg/kg			-				-	-		-	
Barium	mg/kg			-				-	-		-	
Cadmium	mg/kg			-				-	-		-	
Chromium	mg/kg			-				-	-		-	
Lead	mg/kg			-				-	-		-	
Mercury	mg/kg			-				-	-		-	
Selenium	mg/kg			-				-	-		-	
Silver	mg/kg			-				-	-		-	

Qualifiers
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Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

GRID LOCATION		16								17					
ClientSample:		16A		16x		16x2		16x3		17A		17x		17x2	
Sample Date:		09/20/2013		10/18/2013		10/22/2013		10/25/2013		09/20/2013		10/18/2013		10/22/2013	
Sample No.		1309452-28		1310393-06		1310455-01		1310513-05		1309452-29		1310393-22		1310455-14	
Matrix		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**														
Aroclor 1016	mg/kg dry	0.0839	U	0.0538	U	0.0612	U	0.0542	U	0.087	U	0.0533	U	0.0562	U
Aroclor 1221	mg/kg dry	0.0839	U	0.0538	U	0.0612	U	0.0542	U	0.087	U	0.0533	U	0.0562	U
Aroclor 1232	mg/kg dry	0.0839	U	0.0538	U	0.0612	U	0.0542	U	0.087	U	0.0533	U	0.0562	U
Aroclor 1242	mg/kg dry	0.0839	U	0.0538	U	0.0612	U	0.0542	U	0.087	U	0.0533	U	0.0562	U
Aroclor 1248	mg/kg dry	0.85		0.313		2.05	D	0.0542	U	0.899		0.423		0.154	
Aroclor 1254	mg/kg dry	2.71	D	0.904		4.05	D	0.261		1.64		2.25	D	0.565	
Aroclor 1260	mg/kg dry	0.0839	U	0.0538	U	0.0612	U	0.0542	U	0.087	U	0.0533	U	0.0562	U
Aroclor 1262	mg/kg dry	0.0839	U	0.0538	U	0.0612	U	0.0542	U	0.087	U	0.0533	U	0.0562	U
Aroclor 1268	mg/kg dry	0.0839	U	0.0538	U	0.0612	U	0.0542	U	0.087	U	0.0533	U	0.0562	U
TOTAL PCBS:		3.56		1.217		6.1		**0.261**		2.539		2.673		**0.719**	
Total Metals Solid															
Arsenic	mg/kg			-		-		-				-		-	
Barium	mg/kg			-		-		-				-		-	
Cadmium	mg/kg			-		-		-				-		-	
Chromium	mg/kg			-		-		-				-		-	
Lead	mg/kg			-		-		-				-		-	
Mercury	mg/kg			-		-		-				-		-	
Selenium	mg/kg			-		-		-				-		-	
Silver	mg/kg			-		-		-				-		-	

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Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

GRID LOCATION		18				18xx						19		19xx	
ClientSample:		18A		18x		18xx		18xx2		18xx3		19A		19xx	
Sample Date:		09/19/2013		10/22/2013		10/18/2013		10/22/2013		10/25/2013		09/19/2013		10/18/2013	
Sample No.		1309443-17		1310455-15		1310393-29		1310455-16		1310513-04		1309443-18		1310393-18	
Matrix		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**														
Aroclor 1016	mg/kg dry	0.0568	U	0.0537	U	0.0539	U	0.0512	U	0.0522	U	0.0569	U	0.0522	U
Aroclor 1221	mg/kg dry	0.0568	U	0.0537	U	0.0539	U	0.0512	U	0.0522	U	0.0569	U	0.0522	U
Aroclor 1232	mg/kg dry	0.0568	U	0.0537	U	0.0539	U	0.0512	U	0.0522	U	0.0569	U	0.0522	U
Aroclor 1242	mg/kg dry	0.0568	U	0.0537	U	0.0539	U	0.0512	U	0.0522	U	0.0569	U	0.0522	U
Aroclor 1248	mg/kg dry	0.194		0.179		0.439		0.0512	U	0.0522	U	0.229		0.0522	U
Aroclor 1254	mg/kg dry	0.544		0.422		0.953		1.49	D	0.38		0.432		0.121	
Aroclor 1260	mg/kg dry	0.0568	U	0.0537	U	0.0539	U	0.0512	U	0.0522	U	0.0569	U	0.0522	U
Aroclor 1262	mg/kg dry	0.0568	U	0.0537	U	0.0539	U	0.0512	U	0.0522	U	0.0569	U	0.0522	U
Aroclor 1268	mg/kg dry	0.0568	U	0.0537	U	0.0539	U	0.0512	U	0.0522	U	0.0569	U	0.0522	U
TOTAL PCBS:		0.738		**0.601**		1.392		1.49		**0.38**		**0.661**		**0.121**	
Total Metals Solid															
Arsenic	mg/kg			-		-		-		-				-	
Barium	mg/kg			-		-		-		-				-	
Cadmium	mg/kg			-		-		-		-				-	
Chromium	mg/kg			-		-		-		-				-	
Lead	mg/kg			-		-		-		-				167	
Mercury	mg/kg			-		-		-		-				-	
Selenium	mg/kg			-		-		-		-				-	
Silver	mg/kg			-		-		-		-				-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
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Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	**20**		**21**		**22**				**23**						**23xx**	
	ClientSample:	**20A**		**21A**		**22A**		**22B**		**23A**		**23B**		**23x**		**23xx**	
	Sample Date:	**09/19/2013**		**09/19/2013**		**09/19/2013**		**09/19/2013**		**09/19/2013**		**09/19/2013**		**10/22/2013**		**10/22/2013**	
	Sample No.	**1309443-19**		**1309443-20**		**1309449-16**		**1309449-17**		**1309449-20**		**1309449-21**		**1310455-18**		**1310455-23**	
	Matrix	**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**	
Analyte	**Units**																
Aroclor 1016	mg/kg dry	0.0547	U	0.0531	U	0.0523	U	0.0549	U	0.055	U	0.056	U	0.0565	U	0.0517	U
Aroclor 1221	mg/kg dry	0.0547	U	0.0531	U	0.0523	U	0.0549	U	0.055	U	0.056	U	0.0565	U	0.0517	U
Aroclor 1232	mg/kg dry	0.0547	U	0.0531	U	0.0523	U	0.0549	U	0.055	U	0.056	U	0.0565	U	0.0517	U
Aroclor 1242	mg/kg dry	0.0547	U	0.0531	U	0.0523	U	0.0549	U	0.055	U	0.056	U	0.0565	U	0.0517	U
Aroclor 1248	mg/kg dry	0.211		0.183		0.0523	U	0.0549	U	0.055	U	0.424		0.115		0.0517	U
Aroclor 1254	mg/kg dry	0.475		0.307		0.0523	U	0.0549	U	0.055	U	0.914		0.256		0.0517	U
Aroclor 1260	mg/kg dry	0.0547	U	0.0531	U	0.0523	U	0.0549	U	0.055	U	0.056	U	0.0565	U	0.0517	U
Aroclor 1262	mg/kg dry	0.0547	U	0.0531	U	0.0523	U	0.0549	U	0.055	U	0.056	U	0.0565	U	0.0517	U
Aroclor 1268	mg/kg dry	0.0547	U	0.0531	U	0.0523	U	0.0549	U	0.055	U	0.056	U	0.0565	U	0.0517	U
TOTAL PCBS:		**0.686**		**0.49**		**ND (<0.0523)**		**ND (<0.0549)**		ND (<0.055)		1.338		**0.371**		**ND (<0.0517)**	
Total Metals Solid																	
Arsenic	mg/kg													-		-	
Barium	mg/kg													-		-	
Cadmium	mg/kg													-		-	
Chromium	mg/kg													-		-	
Lead	mg/kg													-		-	
Mercury	mg/kg													-		-	
Selenium	mg/kg													-		-	
Silver	mg/kg													-		-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
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Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	**24**				**25**				**25xx**			
	ClientSample:	**24A**		**24B**		**25A**		**25B**		**25xx**		**25xx2**	
	Sample Date:	**09/19/2013**		**09/19/2013**		**09/19/2013**		**09/19/2013**		**10/21/2013**		**10/25/2013**	
	Sample No.	**1309449-24**		**1309449-25**		**1309450-01**		**1309450-02**		**1310427-04**		**1310512-05**	
	Matrix	**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**	
Analyte	**Units**												
Aroclor 1016	mg/kg dry	0.0556	U	0.0509	U	0.0568	U	0.0512	U	0.0561	U	0.0547	U
Aroclor 1221	mg/kg dry	0.0556	U	0.0509	U	0.0568	U	0.0512	U	0.0561	U	0.0547	U
Aroclor 1232	mg/kg dry	0.0556	U	0.0509	U	0.0568	U	0.0512	U	0.0561	U	0.0547	U
Aroclor 1242	mg/kg dry	0.0556	U	0.0509	U	0.0568	U	0.0512	U	0.0561	U	0.0547	U
Aroclor 1248	mg/kg dry	0.13		0.0509	U	0.147		0.0512	U	1.32	D	0.0547	U
Aroclor 1254	mg/kg dry	0.29		0.0509	U	0.347		0.0512	U	3.43	D	0.0547	U
Aroclor 1260	mg/kg dry	0.0556	U	0.0509	U	0.0568	U	0.113		0.0561	U	0.0547	U
Aroclor 1262	mg/kg dry	0.0556	U	0.0509	U	0.0568	U	0.0512	U	0.0561	U	0.0547	U
Aroclor 1268	mg/kg dry	0.0556	U	0.0509	U	0.0568	U	0.0512	U	0.0561	U	0.0547	U
TOTAL PCBS:		**0.42**		**ND (<0.0509)**		**0.494**		**0.113**		4.75		**ND (<0.0547)**	
Total Metals Solid													
Arsenic	mg/kg									-		-	
Barium	mg/kg									-		-	
Cadmium	mg/kg									-		-	
Chromium	mg/kg									-		-	
Lead	mg/kg									-		-	
Mercury	mg/kg									-		-	
Selenium	mg/kg									-		-	
Silver	mg/kg									-		-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
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Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	26				27							27xx			
	ClientSample:	26A		26B		27A		27B		27x		27x2		27xx		27xx2
	Sample Date:	09/19/2013		09/19/2013		09/19/2013		09/19/2013		10/21/2013		10/25/2013		10/21/2013		10/25/2013
	Sample No.	1309450-03		1309450-04		1309450-05		1309450-06		1310427-01		1310512-03		1310427-02		1310512-04
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid
Analyte	**Units**															
Aroclor 1016	mg/kg dry	0.0521	U	0.0557	U	0.0538	U	0.0535	U	0.0518	U	0.0558	U	0.055	U	0.0575	U
Aroclor 1221	mg/kg dry	0.0521	U	0.0557	U	0.0538	U	0.0535	U	0.0518	U	0.0558	U	0.055	U	0.0575	U
Aroclor 1232	mg/kg dry	0.0521	U	0.0557	U	0.0538	U	0.0535	U	0.0518	U	0.0558	U	0.055	U	0.0575	U
Aroclor 1242	mg/kg dry	0.0521	U	0.0557	U	0.0538	U	0.0535	U	0.0518	U	0.0558	U	0.055	U	0.0575	U
Aroclor 1248	mg/kg dry	0.0521	U	0.278		0.458		0.398		0.521		0.0558	U	2.42	D	0.0575	U
Aroclor 1254	mg/kg dry	0.102		0.617		1.04		0.968		1.31	D	0.0558	U	5.2	D	0.0575	U
Aroclor 1260	mg/kg dry	0.133		0.0557	U	0.0538	U	0.0535	U	0.0518	U	0.0558	U	0.055	U	0.0575	U
Aroclor 1262	mg/kg dry	0.0521	U	0.0557	U	0.0538	U	0.0535	U	0.0518	U	0.0558	U	0.055	U	0.0575	U
Aroclor 1268	mg/kg dry	0.0521	U	0.0557	U	0.0538	U	0.0535	U	0.0518	U	0.0558	U	0.055	U	0.0575	U
TOTAL PCBS:		**0.235**		**0.895**		1.498		1.366		1.831		**ND (<0.0558)**		7.62		**ND (<0.0575)**
Total Metals Solid																
Arsenic	mg/kg									-		-		-		-
Barium	mg/kg									-		-		-		-
Cadmium	mg/kg									-		-		-		-
Chromium	mg/kg									-		-		-		-
Lead	mg/kg									-		-		-		-
Mercury	mg/kg									-		-		-		-
Selenium	mg/kg									-		-		-		-
Silver	mg/kg									-		-		-		-

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	28			29											
	ClientSample:	28A	28B	28x	29A		29B		29x		29x2		29x (3)		29x3	
	Sample Date:	09/19/2013	09/19/2013	10/18/2013	09/19/2013		09/19/2013		10/18/2013		10/22/2013		10/29/2013		11/1/2013	
	Sample No.	1309450-07	1309450-10	1310392-02	1309450-11		1309450-12		1310392-05		1310455-11		1310566-02		1311020-01	
	Matrix	Solid	Solid	Solid	Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**															
Aroclor 1016	mg/kg dry	0.057	U	0.0607	U	<0.0557	0.0555	U	0.0578	U	<0.0549	1.17	U, D	1.09	U, D	0.0539	U
Aroclor 1221	mg/kg dry	0.057	U	0.0607	U	<0.0557	0.0555	U	0.0578	U	<0.0549	1.17	U, D	1.09	U, D	0.0539	U
Aroclor 1232	mg/kg dry	0.057	U	0.0607	U	<0.0557	0.0555	U	0.0578	U	<0.0549	1.17	U, D	1.09	U, D	0.0539	U
Aroclor 1242	mg/kg dry	0.057	U	0.0607	U	<0.0557	0.0555	U	0.0578	U	<0.0549	1.17	U, D	1.09	U, D	0.0539	U
Aroclor 1248	mg/kg dry	0.58		0.0607	U	<0.0557	1.02		0.0589		0.25	3.07	D	8.08		0.0539	U
Aroclor 1254	mg/kg dry	1.77	D	0.137		<0.0557	2.84	D	0.151		0.584	9.03	D	18.5		0.0539	U
Aroclor 1260	mg/kg dry	0.057	U	0.0607	U	<0.0557	0.0555	U	0.0578	U	<0.0549	1.17	U, D	1.09	U, D	0.0539	U
Aroclor 1262	mg/kg dry	0.057	U	0.0607	U	<0.0557	0.0555	U	0.0578	U	<0.0549	1.17	U, D	1.09	U, D	0.0539	U
Aroclor 1268	mg/kg dry	0.057	U	0.0607	U	<0.0557	0.0555	U	0.0578	U	<0.0549	1.17	U, D	1.09	U, D	0.0539	U
TOTAL PCBS:		2.35		0.137		**ND (<0.0557)**	3.86		0.2099		0.83	12.1		26.58		**ND (<0.0539)**
Total Metals Solid																
Arsenic	mg/kg					-					-	-				
Barium	mg/kg					-					-	-				
Cadmium	mg/kg					-					-	-				
Chromium	mg/kg					-					-	-				
Lead	mg/kg					-					-	-				
Mercury	mg/kg					-					-	-				
Selenium	mg/kg					-					-	-				
Silver	mg/kg					-					-	-				

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	29xx			30							31									31xx	
	ClientSample:	29xx	29xx2		30A		30B		30x	30x2		31A		31B		31x		31x2			31xx	
	Sample Date:	10/18/2013	10/25/2013		09/19/2013		09/19/2013		10/18/2013	10/22/2013		09/19/2013		09/19/2013		10/18/2013		10/22/2013			10/18/2013	
	Sample No.	1310392-04	1310512-08		1309450-08		1309450-09		1310392-09	1310455-04		1309450-13		1309450-14		1310393-04		1310455-07			1310393-03	
	Matrix	Solid	Solid		Solid		Solid		Solid	Solid		Solid		Solid		Solid		Solid			Solid	
Analyte	**Units**																					
Aroclor 1016	mg/kg dry	<0.0561	0.0583	U	0.06	U	0.06	U	<5.69	0.0565	U	0.0558	U	1.15	U, D	2.71	U, D	0.0603	U		0.0573	U
Aroclor 1221	mg/kg dry	<0.0561	0.0583	U	0.06	U	0.06	U	<5.69	0.0565	U	0.0558	U	1.15	U, D	2.71	U, D	0.0603	U		0.0573	U
Aroclor 1232	mg/kg dry	<0.0561	0.0583	U	0.06	U	0.06	U	<5.69	0.0565	U	0.0558	U	1.15	U, D	2.71	U, D	0.0603	U		0.0573	U
Aroclor 1242	mg/kg dry	<0.0561	0.0583	U	0.06	U	0.06	U	<5.69	0.0565	U	0.0558	U	1.15	U, D	2.71	U, D	0.0603	U		0.0573	U
Aroclor 1248	mg/kg dry	3.32	0.0583	U	3	D	0.21		29.6	0.0565	U	2.31	D	4.93	D	8.71	D	0.0603	U		0.0573	U
Aroclor 1254	mg/kg dry	7.9	0.0583	U	6.92	D	0.46		61.9	0.0565	U	5.22	D	10.7	D	22.7	D	0.0796			0.709	
Aroclor 1260	mg/kg dry	<0.0561	0.0583	U	0.06	U	0.06	U	<5.69	0.0565	U	0.0558	U	1.15	U, D	2.71	U, D	0.0603	U		0.0573	U
Aroclor 1262	mg/kg dry	<0.0561	0.0583	U	0.06	U	0.06	U	<5.69	0.0565	U	0.0558	U	1.15	U, D	2.71	U, D	0.0603	U		0.0573	U
Aroclor 1268	mg/kg dry	<0.0561	0.0583	U	0.06	U	0.06	U	<5.69	0.0565	U	0.0558	U	1.15	U, D	2.71	U, D	0.0603	U		0.0573	U
TOTAL PCBS:		11.22	**ND (<0.0583)**		9.92		0.67		91.50	**ND (<0.0565)**		7.53		15.63		31.41		**0.0796**			**0.709**	
Total Metals Solid																						
Arsenic	mg/kg	-	-						-	-						-		-			-	
Barium	mg/kg	-	-						-	-						-		-			-	
Cadmium	mg/kg	-	-						-	-						-		-			-	
Chromium	mg/kg	-	-						-	-						-		-			-	
Lead	mg/kg	-	-						-	-						-		-			-	
Mercury	mg/kg	-	-						-	-						-		-			-	
Selenium	mg/kg	-	-						-	-						-		-			-	
Silver	mg/kg	-	-						-	-						-		-			-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	32								33											
	ClientSample:	32A		32B		32x		32x2		33A		33B		33x		33x2		33x3		Dup 1 (Dup for 33x3)	
	Sample Date:	09/19/2013		09/19/2013		10/18/2013		10/22/2013		09/19/2013		09/19/2013		10/18/2013		10/22/2013		10/25/2013		10/25/2013	
	Sample No.	1309450-15		1309450-16		1310393-07		1310455-12		1309450-17		1309450-18		1310393-10		1310455-13		1310512-10		1310512-11	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																				
Aroclor 1016	mg/kg dry	5.47	U, D	0.055	U	0.0522	U	0.0623	U	2.9	U, D	0.0587	U	0.0584	U	0.0529	U	0.0555	U	0.0567	U
Aroclor 1221	mg/kg dry	5.47	U, D	0.055	U	0.0522	U	0.0623	U	2.9	U, D	0.0587	U	0.0584	U	0.0529	U	0.0555	U	0.0567	U
Aroclor 1232	mg/kg dry	5.47	U, D	0.055	U	0.0522	U	0.0623	U	2.9	U, D	0.0587	U	0.0584	U	0.0529	U	0.0555	U	0.0567	U
Aroclor 1242	mg/kg dry	5.47	U, D	0.055	U	0.0522	U	0.0623	U	2.9	U, D	0.0587	U	0.0584	U	0.0529	U	0.0555	U	0.0567	U
Aroclor 1248	mg/kg dry	31.3	D	0.123	P	0.455		0.0623	U	17.7	D	1.11		0.0584	U	1.56	D	0.116		0.137	
Aroclor 1254	mg/kg dry	66.3	D	0.261		0.964		0.0623	U	38.6	D	2.69	D	0.105		3.28	D	0.341		0.369	
Aroclor 1260	mg/kg dry	5.47	U, D	0.055	U	0.0522	U	0.0623	U	2.9	U, D	0.0587	U	0.0584	U	0.0529	U	0.0555	U	0.0567	U
Aroclor 1262	mg/kg dry	5.47	U, D	0.055	U	0.0522	U	0.0623	U	2.9	U, D	0.0587	U	0.0584	U	0.0529	U	0.0555	U	0.0567	U
Aroclor 1268	mg/kg dry	5.47	U, D	0.055	U	0.0522	U	0.0623	U	2.9	U, D	0.0587	U	0.0584	U	0.0529	U	0.0555	U	0.0567	U
TOTAL PCBS:		97.6		0.384		1.419		**ND (<0.0623)**		56.3		3.8		0.105		4.84		**0.457**		0.506	
Total Metals Solid																					
Arsenic	mg/kg					-		2.8	U					-		-		-			
Barium	mg/kg					-		48.5						-		-		-			
Cadmium	mg/kg					-		0.57	U					-		-		-			
Chromium	mg/kg					-		14.9						-		-		-			
Lead	mg/kg					-		93.2						-		-		-			
Mercury	mg/kg					-		0.131						-		-		-			
Selenium	mg/kg					-		5.7	U					-		-		-			
Silver	mg/kg					-		0.57	U					-		-		-			

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	33xx				34								35					
	ClientSample:	33xx		33xx2		34A		34B		34x		34x2		35A		35B		35x	
	Sample Date:	10/18/2013		10/25/2013		09/19/2013		09/19/2013		10/18/2013		10/22/2013		09/19/2013		09/19/2013		10/18/2013	
	Sample No.	1310393-09		1310513-01		1309450-19		1309450-20		1310393-23		1310455-09		1309451-01		1309451-02		1310393-27	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																		
Aroclor 1016	mg/kg dry	0.0549	U	0.0546	U	0.0661	U	0.0588	U	0.0553	U	0.0526	U	0.0565	U	0.0571	U	0.0551	U
Aroclor 1221	mg/kg dry	0.0549	U	0.0546	U	0.0661	U	0.0588	U	0.0553	U	0.0526	U	0.0565	U	0.0571	U	0.0551	U
Aroclor 1232	mg/kg dry	0.0549	U	0.0546	U	0.0661	U	0.0588	U	0.0553	U	0.0526	U	0.0565	U	0.0571	U	0.0551	U
Aroclor 1242	mg/kg dry	0.0549	U	0.0546	U	0.0661	U	0.0588	U	0.0553	U	0.0526	U	0.0565	U	0.0571	U	0.0551	U
Aroclor 1248	mg/kg dry	0.642		0.0546	U	0.919		0.0588	U	4.07	D	0.0526	U	1.99	D	0.0571	U	0.0551	U
Aroclor 1254	mg/kg dry	2.69	D	0.106		3.11	D	0.146		7.96	D	0.142		3.71	D	0.0571	U	0.113	
Aroclor 1260	mg/kg dry	0.0549	U	0.0546	U	0.396		0.0588	U	0.0553	U	0.0526	U	0.0565	U	0.0571	U	0.0551	U
Aroclor 1262	mg/kg dry	0.0549	U	0.0546	U	0.0661	U	0.0588	U	0.0553	U	0.0526	U	0.0565	U	0.0571	U	0.0551	U
Aroclor 1268	mg/kg dry	0.0549	U	0.0546	U	0.0661	U	0.0588	U	0.0553	U	0.0526	U	0.0565	U	0.0571	U	0.0551	U
TOTAL PCBS:		3.332		**0.106**		4.425		0.146		12.03		**0.142**		5.7		ND (<0.0571)		**0.113**	
Total Metals Solid																			
Arsenic	mg/kg	-		-						-		-						-	
Barium	mg/kg	-		-						-		-						-	
Cadmium	mg/kg	-		-						-		-						-	
Chromium	mg/kg	-		-						-		-						-	
Lead	mg/kg	-		-						-		-						-	
Mercury	mg/kg	-		-						-		-						-	
Selenium	mg/kg	-		-						-		-						-	
Silver	mg/kg	-		-						-		-						-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	35xx		36						37				37xx		38			
	ClientSample:	35xx		36A		36B		36x		37A		37B		37xx		38A		38B	
	Sample Date:	10/18/2013		09/19/2013		09/19/2013		10/18/2013		09/19/2013		09/19/2013		10/18/2013		09/19/2013		09/19/2013	
	Sample No.	1310393-26		1309451-03		1309451-04		1310393-11		1309451-05		1309451-06		1310393-15		1309451-07		1309451-08	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																		
Aroclor 1016	mg/kg dry	0.0556	U	0.057	U	0.0547	U	0.0559	U	0.0569	U	0.0567	U	0.0556	U	0.0576	U	0.0549	U
Aroclor 1221	mg/kg dry	0.0556	U	0.057	U	0.0547	U	0.0559	U	0.0569	U	0.0567	U	0.0556	U	0.0576	U	0.0549	U
Aroclor 1232	mg/kg dry	0.0556	U	0.057	U	0.0547	U	0.0559	U	0.0569	U	0.0567	U	0.0556	U	0.0576	U	0.0549	U
Aroclor 1242	mg/kg dry	0.0556	U	0.057	U	0.0547	U	0.0559	U	0.0569	U	0.0567	U	0.0556	U	0.0576	U	0.0549	U
Aroclor 1248	mg/kg dry	0.0833		0.444		0.0547	U	0.0559	U	0.238		0.0567	U	0.0556	U	0.208		0.0549	U
Aroclor 1254	mg/kg dry	0.202		0.923		0.0547	U	0.0559	U	0.629		0.0567	U	0.32		0.526		0.183	
Aroclor 1260	mg/kg dry	0.0556	U	0.057	U	0.0547	U	0.0559	U	0.0569	U	0.0567	U	0.0556	U	0.0576	U	0.0549	U
Aroclor 1262	mg/kg dry	0.0556	U	0.057	U	0.0547	U	0.0559	U	0.0569	U	0.0567	U	0.0556	U	0.0576	U	0.0549	U
Aroclor 1268	mg/kg dry	0.0556	U	0.057	U	0.0547	U	0.0559	U	0.0569	U	0.0567	U	0.0556	U	0.0576	U	0.0549	U
TOTAL PCBS:		**0.2853**		1.367		ND (<0.0547)		**ND (<0.0559)**		**0.867**		**ND (<0.0567)**		**0.32**		**0.734**		**0.183**	
Total Metals Solid																			
Arsenic	mg/kg	-						-						-					
Barium	mg/kg	-						-						-					
Cadmium	mg/kg	-						-						-					
Chromium	mg/kg	-						-						-					
Lead	mg/kg	-						-						256					
Mercury	mg/kg	-						-						-					
Selenium	mg/kg	-						-						-					
Silver	mg/kg	-						-						-					

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	39			39xx			40					
	ClientSample:	39A	39B	39x	39xx	39xx2	39xx3	40A	40B	320A (40A DUP)	40x	40x2	40x3
	Sample Date:	09/19/2013	09/19/2013	10/18/2013	10/18/2013	10/21/2013	10/25/2013	09/19/2013	09/19/2013	09/19/2013	10/18/2013	10/21/2013	10/25/2013
	Sample No.	1309451-09	1309451-10	1310392-12	1310393-31	1310427-11	1310513-02	1309443-11	1309443-12	1309443-03	1310392-13	1310427-10	1310513-03
	Matrix	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Analyte	**Units**												
Aroclor 1016	mg/kg dry	0.0615 U	0.0562 U	<0.0569	0.0559 U	0.0568 U	0.0545 U	0.0591 U	0.0572 U	0.0592 U	<0.0599	0.0582 U	0.0529 U
Aroclor 1221	mg/kg dry	0.0615 U	0.0562 U	<0.0569	0.0559 U	0.0568 U	0.0545 U	0.0591 U	0.0572 U	0.0592 U	<0.0599	0.0582 U	0.0529 U
Aroclor 1232	mg/kg dry	0.0615 U	0.0562 U	<0.0569	0.0559 U	0.0568 U	0.0545 U	0.0591 U	0.0572 U	0.0592 U	<0.0599	0.0582 U	0.0529 U
Aroclor 1242	mg/kg dry	0.0615 U	0.0562 U	<0.0569	0.0559 U	0.0568 U	0.0545 U	0.0591 U	0.0572 U	0.0592 U	<0.0599	0.0582 U	0.0529 U
Aroclor 1248	mg/kg dry	0.288	0.0562 U	0.255	0.606	0.451	0.0545 U	0.262	0.12	0.288	**0.448**	0.286	0.0529 U
Aroclor 1254	mg/kg dry	0.734	0.0562 U	0.424	2.11 D	1.03	0.328	0.723	0.336	0.77	**0.954**	0.727	0.144
Aroclor 1260	mg/kg dry	0.0615 U	0.0562 U	<0.0569	0.0559 U	0.0568 U	0.0545 U	0.0591 U	0.0572 U	0.0592 U	<0.0599	0.0582 U	0.0529 U
Aroclor 1262	mg/kg dry	0.0615 U	0.0562 U	<0.0569	0.0559 U	0.0568 U	0.0545 U	0.0591 U	0.0572 U	0.0592 U	<0.0599	0.0582 U	0.0529 U
Aroclor 1268	mg/kg dry	0.0615 U	0.0562 U	<0.0569	0.0559 U	0.0568 U	0.0545 U	0.0591 U	0.0572 U	0.0592 U	<0.0599	0.0582 U	0.0529 U
TOTAL PCBS:		1.022	ND (<0.0562)	**0.68**	2.716	1.481	**0.328**	0.985	0.456	1.058	**1.402**	**1.013**	**0.144**
Total Metals Solid													
Arsenic	mg/kg			-	-	-	-				-	-	-
Barium	mg/kg			-	-	-	-				-	-	-
Cadmium	mg/kg			-	-	-	-				-	-	-
Chromium	mg/kg			-	-	-	-				-	-	-
Lead	mg/kg			-	-	-	-				-	-	-
Mercury	mg/kg			-	-	-	-				-	-	-
Selenium	mg/kg			-	-	-	-				-	-	-
Silver	mg/kg			-	-	-	-				-	-	-

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	**41**				**42**				**53**							
	ClientSample:	**41A**		**41B**		**42A**		**42B**		**53A**		**53B**		**53x**		**53x2**	
	Sample Date:	**09/19/2013**		**09/19/2013**		**09/19/2013**		**09/19/2013**		**09/20/2013**		**09/20/2013**		**10/18/2013**		**10/22/2013**	
	Sample No.	**1309443-13**		**1309443-14**		**1309443-15**		**1309443-16**		**1309452-17**		**1309452-18**		**1310393-08**		**1310455-08**	
	Matrix	**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**		**Solid**	
Analyte	**Units**																
Aroclor 1016	mg/kg dry	0.0574	U	0.057	U	0.056	U	0.0589	U	1.07	U, D	1.11	U, D	0.0539	U	0.0584	U
Aroclor 1221	mg/kg dry	0.0574	U	0.057	U	0.056	U	0.0589	U	1.07	U, D	0.0555	U	0.0539	U	0.0584	U
Aroclor 1232	mg/kg dry	0.0574	U	0.057	U	0.056	U	0.0589	U	1.07	U, D	0.0555	U	0.0539	U	0.0584	U
Aroclor 1242	mg/kg dry	0.0574	U	0.057	U	0.056	U	0.0589	U	1.07	U, D	0.0555	U	0.0539	U	0.0584	U
Aroclor 1248	mg/kg dry	0.209		0.057	U	0.274		0.06		9.59	D	0.237		1.62	D	0.116	
Aroclor 1254	mg/kg dry	0.49		0.057	U	0.645		0.152		21	D	0.556		3.93	D	0.188	
Aroclor 1260	mg/kg dry	0.0574	U	0.057	U	0.056	U	0.0589	U	1.07	U, D	0.0555	U	0.0539	U	0.0584	U
Aroclor 1262	mg/kg dry	0.0574	U	0.057	U	0.056	U	0.0589	U	1.07	U, D	0.0555	U	0.0539	U	0.0584	U
Aroclor 1268	mg/kg dry	0.0574	U	0.057	U	0.056	U	0.0589	U	1.07	U, D	0.0555	U	0.0539	U	0.0584	U
TOTAL PCBS:		**0.699**		**ND (<0.057)**		**0.919**		**0.212**		30.59		0.793		5.55		**0.304**	
Total Metals Solid																	
Arsenic	mg/kg													-		-	
Barium	mg/kg													-		-	
Cadmium	mg/kg													-		-	
Chromium	mg/kg													-		-	
Lead	mg/kg													-		-	
Mercury	mg/kg													-		-	
Selenium	mg/kg													-		-	
Silver	mg/kg													-		-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	54												55							
	ClientSample:	54A		54B		325A (54A DUP)		54x		54x2		54x3		55A		55B		55x		55x2	
	Sample Date:	09/20/2013		09/20/2013		09/20/2013		10/18/2013		10/22/2013		10/25/2013		09/20/2013		09/20/2013		10/18/2013		10/22/2013	
	Sample No.	1309445-01		1309445-02		1309445-20		1310393-21		1310455-05		1310512-06		1309452-19		1309452-20		1310393-24		1310455-06	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																				
Aroclor 1016	mg/kg dry	0.0553	U	0.0586	U	0.0559	U	0.0545	U	0.0511	U	0.058	U	0.0554	U	0.0537	U	1.08	U, D	0.056	U
Aroclor 1221	mg/kg dry	0.0553	U	0.0586	U	0.0559	U	0.0545	U	0.0511	U	0.058	U	0.0554	U	0.0537	U	1.08	U, D	0.056	U
Aroclor 1232	mg/kg dry	0.0553	U	0.0586	U	0.0559	U	0.0545	U	0.0511	U	0.058	U	0.0554	U	0.0537	U	1.08	U, D	0.056	U
Aroclor 1242	mg/kg dry	0.0553	U	0.0586	U	0.0559	U	0.0545	U	0.0511	U	0.058	U	0.0554	U	0.0537	U	1.08	U, D	0.056	U
Aroclor 1248	mg/kg dry	1.48	D	3.21	D	3.98	D	3.63	D	1.34	D	0.058	U	1.78	D	0.0537	U	6.36	D	0.056	U
Aroclor 1254	mg/kg dry	4.57	D	6.6	D	10.1	D	9.32	D	3.66	D	0.058	U	4.08	D	0.0695		11.9	D	0.213	
Aroclor 1260	mg/kg dry	0.0553	U	0.0586	U	0.0559	U	0.0545	U	0.0511	U	0.058	U	0.0554	U	0.0537	U	1.08	U, D	0.056	U
Aroclor 1262	mg/kg dry	0.0553	U	0.0586	U	0.0559	U	0.0545	U	0.0511	U	0.058	U	0.0554	U	0.0537	U	1.08	U, D	0.056	U
Aroclor 1268	mg/kg dry	0.0553	U	0.0586	U	0.0559	U	0.0545	U	0.0511	U	0.058	U	0.0554	U	0.0537	U	1.08	U, D	0.056	U
TOTAL PCBS:		6.05		9.81		14.08		12.95		5		**ND (<0.058)**		5.86		0.0695		18.26		**0.213**	
Total Metals Solid																					
Arsenic	mg/kg							-		-		-						-		-	
Barium	mg/kg							-		-		-						-		-	
Cadmium	mg/kg							-		-		-						-		-	
Chromium	mg/kg							-		-		-						-		-	
Lead	mg/kg							-		-		-						-		-	
Mercury	mg/kg							-		-		-						-		-	
Selenium	mg/kg							-		-		-						-		-	
Silver	mg/kg							-		-		-						-		-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	56						57								58					
	ClientSample:	56A		56B		56x		57A		57B		57x		57x2		58A		58B		58x	
	Sample Date:	09/20/2013		09/20/2013		10/18/2013		09/20/2013		09/20/2013		10/18/2013		10/22/2013		09/20/2013		09/20/2013		10/18/2013	
	Sample No.	1309445-03		1309445-04		1310393-28		1309445-05		1309445-06		1310393-12		1310455-10		1309445-07		1309445-08		1310393-17	
	Matrix	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Analyte	**Units**																				
Aroclor 1016	mg/kg dry	0.0656	U	0.0555	U	0.0533	U	0.0544	U	0.0594	U	0.055	U	0.0533	U	0.0574	U	0.0571	U	0.054	U
Aroclor 1221	mg/kg dry	0.0656	U	0.0555	U	0.0533	U	0.0544	U	0.0594	U	0.055	U	0.0533	U	0.0574	U	0.0571	U	0.054	U
Aroclor 1232	mg/kg dry	0.0656	U	0.0555	U	0.0533	U	0.0544	U	0.0594	U	0.055	U	0.0533	U	0.0574	U	0.0571	U	0.054	U
Aroclor 1242	mg/kg dry	0.0656	U	0.0555	U	0.0533	U	0.0544	U	0.0594	U	0.055	U	0.0533	U	0.0574	U	0.0571	U	0.054	U
Aroclor 1248	mg/kg dry	1.86	D	0.0555	U	0.0533	U	0.243		0.0594	U	1.08		0.0768		0.276		0.0571	U	0.054	U
Aroclor 1254	mg/kg dry	3.72	D	0.0555	U	0.193		0.444		0.0594	U	3.58	D	0.223		0.731		0.0571	U	0.397	
Aroclor 1260	mg/kg dry	0.0656	U	0.0555	U	0.0533	U	0.0544	U	0.0594	U	0.055	U	0.0533	U	0.0574	U	0.0571	U	0.054	U
Aroclor 1262	mg/kg dry	0.0656	U	0.0555	U	0.0533	U	0.0544	U	0.0594	U	0.055	U	0.0533	U	0.0574	U	0.0571	U	0.054	U
Aroclor 1268	mg/kg dry	0.0656	U	0.0555	U	0.0533	U	0.0544	U	0.0594	U	0.055	U	0.0533	U	0.0574	U	0.0571	U	0.054	U
TOTAL PCBS:		5.58		ND (<0.0555)		**0.193**		**0.687**		**ND (<0.0594)**		4.66		**0.2998**		1.007		ND (<0.0571)		**0.397**	
Total Metals Solid																					
Arsenic	mg/kg					-						-		-						-	
Barium	mg/kg					-						-		-						-	
Cadmium	mg/kg					-						-		-						-	
Chromium	mg/kg					-						-		-						-	
Lead	mg/kg					-						-		-						-	
Mercury	mg/kg					-						-		-						-	
Selenium	mg/kg					-						-		-						-	
Silver	mg/kg					-						-		-						-	

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 1
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Soil Sampling Results

	GRID LOCATION	59			60		61			62			63	
	ClientSample:	59A	59B	59x	60A	60B	61A	Dup (Dup for 61A)	61B	62A	62x	62x2	63A	63B
	Sample Date:	09/20/2013	09/20/2013	10/18/2013	09/20/2013	09/20/2013	09/20/2013	10/22/2013	09/20/2013	09/20/2013	10/18/2013	10/21/2013	09/19/2013	09/19/2013
	Sample No.	1309445-09	1309445-10	1310393-19	1309445-11	1309445-12	1309445-13	1310455-24	1309445-14	1309445-15	1310392-14	1310427-08	1309449-04	1309449-05
	Matrix	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Analyte	**Units**													
Aroclor 1016	mg/kg dry	0.0575 U	0.0552 U	0.0528 U	0.0599 U	0.0583 U	0.058 U	0.0552 U	0.0556 U	0.0643 U	<0.0557	0.0544 U	0.0598 U	0.0555 U
Aroclor 1221	mg/kg dry	0.0575 U	0.0552 U	0.0528 U	0.0599 U	0.0583 U	0.058 U	0.0552 U	0.0556 U	0.0643 U	<0.0557	0.0544 U	0.0598 U	0.0555 U
Aroclor 1232	mg/kg dry	0.0575 U	0.0552 U	0.0528 U	0.0599 U	0.0583 U	0.058 U	0.0552 U	0.0556 U	0.0643 U	<0.0557	0.0544 U	0.0598 U	0.0555 U
Aroclor 1242	mg/kg dry	0.0575 U	0.0552 U	0.0528 U	0.0599 U	0.0583 U	0.058 U	0.0552 U	0.0556 U	0.0643 U	<0.0557	0.0544 U	0.0598 U	0.0555 U
Aroclor 1248	mg/kg dry	0.364	0.0552 U	0.0528 U	0.177	0.0894	0.125	0.0678	0.0556 U	0.396	0.229	0.166	0.0672 .C,	0.0555 U
Aroclor 1254	mg/kg dry	0.642	0.0552 U	0.433	0.329	0.158	0.256	0.137	0.0556 U	0.673	1.01	0.436	0.188	0.0555 U
Aroclor 1260	mg/kg dry	0.0575 U	0.0552 U	0.0528 U	0.0599 U	0.0583 U	0.058 U	0.0552 U	0.0556 U	0.0643 U	<0.0557	0.0544 U	0.0598 U	0.0555 U
Aroclor 1262	mg/kg dry	0.0575 U	0.0552 U	0.0528 U	0.0599 U	0.0583 U	0.058 U	0.0552 U	0.0556 U	0.0643 U	<0.0557	0.0544 U	0.0598 U	0.0555 U
Aroclor 1268	mg/kg dry	0.0575 U	0.0552 U	0.0528 U	0.0599 U	0.0583 U	0.058 U	0.0552 U	0.0556 U	0.0643 U	<0.0557	0.0544 U	0.0598 U	0.0555 U
TOTAL PCBS:		1.006	ND (<0.0552)	**0.433**	**0.506**	**0.2474**	**0.381**	**0.2048**	ND (<0.0556)	1.069	1.24	**0.60**	**0.2552**	ND (<0.0555)
Total Metals Solid														
Arsenic	mg/kg			-							-	-		
Barium	mg/kg			-							-	-		
Cadmium	mg/kg			-							-	-		
Chromium	mg/kg			-							-	-		
Lead	mg/kg			-							-	-		
Mercury	mg/kg			-							-	-		
Selenium	mg/kg			-							-	-		
Silver	mg/kg			-							-	-		

Qualifiers
D = Sample was diluted in order to obtain a value within the calibration range.
P = Second column confirmation outside of 40% RPD.
U = Not Detected
Yellow-Highlighted indicates final closure sample collected from that grid

Table 2
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Wipe Sampling Results

		ClientSample:	House	PTW	VAC	Filter	Filter 2	VAC 2	VAC 3	Filter 3
		Sample Date:	10/18/2013	10/18/2013	10/18/2013	10/18/2013	10/22/2013	10/22/2013	10/25/2013	10/25/2013
		Sample No.	1310392-15	1310392-16	1310392-17	1310392-18	1310454-05	1310454-06	1310514-01	1310514-02
		Matrix	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe
Method Name	**Analyte**	**Units**								
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1016	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1221	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1232	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1242	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1248	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1254	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1260	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1262	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1268	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1

		ClientSample:	Mustang	Case	V28	V357	V28	V303	APCSmall	APC Large
		Sample Date:	11/26/2013	11/26/2013	11/26/2013	11/26/2013	11/26/2013	11/26/2013	11/26/2013	11/26/2013
		Sample No.	1311503-1	1311503-2	1311503-3	1311503-4	1311503-5	1311503-6	1311503-7	1311503-8
		Matrix	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe
Method Name	**Analyte**	**Units**								
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1016	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1221	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1232	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1242	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1248	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1254	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1260	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1262	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1268	ug/Wipe	<1	<1	<1	<1	<1	<1	<1	<1

		ClientSample:	V28	V34	Bobcat
		Sample Date:	12/6/2013	12/6/2013	12/6/2013
		Sample No.	1312132-1	1312132-2	1312132-3
		Matrix	Wipe	Wipe	Wipe
Method Name	**Analyte**	**Units**			
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1016	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1221	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1232	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1242	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1248	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1254	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1260	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1262	ug/Wipe	<1	<1	<1
8082 Polychlorinated Biphenyls (PCB)	Aroclor 1268	ug/Wipe	<1	<1	<1

Note: Wipe samples collected with a hexane-preserved cotton gauze with a nitrile-gloved hand over a surface area of 100 cm^2.

Table 3
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Summary of Air Sampling Results

			Sample No.	**1310454-01**	**1310454-02**	**1310454-03**	**1310454-04**	**13J1064-01**	**13J1064-02**	**13J1211-01**	**13J1211-02**
			Sample Date:	**10/18/2013**	**10/18/2013**	**10/21/2013**	**10/21/2013**	**10/25/2013**	**10/25/2013**	**10/29/2013**	**10/29/2013**
			Sample Time:	**10:00-17:00**	**8:30 - 17:00**	**8:30 - 17:00**	**17:00**	**8:30 - 15:00**	**8:30 - 1500**	**9:55-12:55**	**9:55-12:55**
			ClientSample:	**101813-Up**	**101813-Down**	**102113-Up**	**102113-Down**	**102513-Up**	**102513-Down**	**Upwind**	**Downwind**
CAS Number	**Method Name**	**Analyte**	**Units**								
12674-11-2	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1016	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
11104-28-2	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1221	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
11141-16-5	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1232	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
53469-21-9	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1242	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
12672-29-6	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1248	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
11097-69-1	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1254	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
11096-82-5	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1260	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
37324-23-5	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1262	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04
11100-14-4	TO-10A Polychlorinated Biphenyls (PCB)	Aroclor 1268	ug/m³	<0.48	<0.48	<0.39	<0.39	<0.016	<0.016	<0.04	<0.04

Note: Samples collected with a 5L/minute air pump

Table 4
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Data Usability Table

Method	Compound	Client ID	Lab ID	Non-Conformanc	Recovery	RPD	Bias	Comments	Sample result	Rpt Units	Comment
6010B	Cadmium	12A	1309452-21	CI32109-BSD1	79 (80-120)	8(20)	LOW		ND <0.53	mg/kg dry	Recovery was w/i 1% and biased low. Result likely overestimates concentration, which was below risk-based standards
6010B	Cadmium	160A	1309443-08	CI32109-BSD1	79 (80-120)	8(20)	LOW		0.64	mg/kg dry	Recovery was w/i 1% and biased low. Result likely overestimates concentration, which was below risk-based standards
6010B	Cadmium	20A	1309443-19	CI32109-BSD1	79 (80-120)	8(20)	LOW		ND <0.53	mg/kg dry	Recovery was w/i 1% and biased low. Result likely overestimates concentration, which was below risk-based standards
6010B	Cadmium	229A	1309443-07	CI32109-BSD1	79 (80-120)	8(20)	LOW		0.55	mg/kg dry	Recovery was w/i 1% and biased low. Result likely overestimates concentration, which was below risk-based standards
6010B	Cadmium	241A	1309443-06	CI32109-BSD1	79 (80-120)	8(20)	LOW		0.91	mg/kg dry	Recovery was w/i 1% and biased low. Result likely overestimates concentration, which was below risk-based standards
6010B	Cadmium	8A	1309451-12	CI32109-BSD1	79 (80-120)	8(20)	LOW		ND <0.62	mg/kg dry	Recovery was w/i 1% and biased low. Result likely overestimates concentration, which was below risk-based standards
6010B	Cadmium	90A	1309443-10	CI32109-BSD1	79 (80-120)	8(20)	LOW		ND <0.54	mg/kg dry	Recovery was w/i 1% and biased low. Result likely overestimates concentration, which was below risk-based standards
6010B	Silver	90A	1309443-10	Elevated Limit	NA	NA	NONE		ND <1.09	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
7471B	Mercury	8A	1309451-12	CI32032-SRM1	155 (70-130)	NA	HIGH		0.097	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8081B	Decachlorobiphenyl [2C]	325A	1309445-20	Surrogate	346 (30-150)	NA	HIGH		Endosulfan I (0.0351)	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8081B	Decachlorobiphenyl [2C]	54A	1309445-01	Surrogate	152 (30-150)	NA	HIGH		Endosulfan I (0.0174)	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8082A	All surrogates	15A	1309452-27	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	15x2	1310455-02	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	29x	1310566-02	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	29x2	1310455-11	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	30x	1310392-09	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	31B	1309450-14	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	31x	1310393-04	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	32A	1309450-15	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	33A	1309450-17	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	53A	1309452-17	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8082A	All surrogates	55x	1310393-24	Surrogate	0 (30-150)	NA	NONE	Diluted out	MANY	mg/kg dry	Subsequently excavated. Not a closure sample
8270D	4-Bromophenyl-phenyleth	186A	1309443-04	CWI0284-CCV1	126 (80-120)	NA	HIGH		ND <0.440	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8270D	4-Bromophenyl-phenyleth	325A	1309445-20	CWI0284-CCV1	126 (80-120)	NA	HIGH		ND <0.376	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8270D	4-Bromophenyl-phenyleth	54A	1309445-01	CWI0284-CCV1	126 (80-120)	NA	HIGH		ND <0.375	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8270D	4-Nitrophenol	186A	1309443-04	CWI0284-CCV1	70 (80-120)	NA	LOW		ND <2.21	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8270D	4-Nitrophenol	325A	1309445-20	CWI0284-CCV1	70 (80-120)	NA	LOW		ND <1.89	mg/kg dry	For Waste Characteriation. Not ID'd as a COC

Table 4
37 Prospect Avenue
RTN 4-24815
Class A-2 RAO
Data Usability Table

8270D	4-Nitrophenol	54A	1309445-01	CWI0284-CCV1	70 (80-120)	NA	LOW	ND <1.88	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8081B	4,4-DDT	325A	1309445-20	Estimate	NA	NA	NONE	0.0698	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8081B	4,4-DDT	54A	1309445-01	Estimate	NA	NA	NONE	0.205	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8081B	Endosulfan I	54A	1309445-01	Estimate	NA	NA	NONE	0.0351	mg/kg dry	For Waste Characteriation. Not ID'd as a COC
8081B	Endosulfan II	54A	1309445-01	Estimate	NA	NA	NONE	0.0519	mg/kg dry	For Waste Characteriation. Not ID'd as a COC

Area bounded by Pressure-Treated Wood being excavated.

Excavated material vaccumed into Vacuum Boxes. Post-Excavation of PTW area

Middle Area of Excavation – note debris being uncovered

Debris being uncovered in the process of soil excavation. All this waste material was disposed off-site as TSCA waste.

Container filled with TSCA-impacted PPE, sampling equipment, and debris from the Site.

Vacuum Boxes on thick plywood.

Southern third of Excavation (looking south)

Post-excavation photos: (1) north portion looking north towards Prospect Ave. (2) middle area

Post-excavation photos: (1) north portion looking south, (2) middle area looking south

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1309452

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:28 pm, Oct 04, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

SAMPLE RECEIPT

The following samples were received on September 20, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1309452-01	44A	Soil	8082A
1309452-02	44B	Soil	8082A
1309452-03	45A	Soil	8082A
1309452-04	45B	Soil	8082A
1309452-05	46A	Soil	8082A
1309452-06	46B	Soil	8082A
1309452-07	47A	Soil	8082A
1309452-08	47B	Soil	8082A
1309452-09	48A	Soil	8082A
1309452-10	48B	Soil	8082A
1309452-11	49A	Soil	8082A
1309452-12	49B	Soil	8082A
1309452-13	50A	Soil	8082A
1309452-14	50B	Soil	8082A
1309452-15	51A	Soil	8082A
1309452-16	52A	Soil	8082A
1309452-17	53A	Soil	8082A
1309452-18	53B	Soil	8082A
1309452-19	55A	Soil	8082A
1309452-20	55B	Soil	8082A
1309452-21	12A	Soil	1311, 1311/6010B, 6010B, 7471B, 8082A, EPH8270, MADEP-EPH
1309452-22	13A	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309452

1309452-23	14A	Soil	8082A
1309452-24	2A	Soil	8082A
1309452-25	3A	Soil	8082A
1309452-26	4A	Soil	8082A
1309452-27	15A	Soil	8082A
1309452-28	16A	Soil	8082A
1309452-29	17A	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1309452-17 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1309452-22 **Lower value is used due to matrix interferences (LC).**
Aroclor 1248

1309452-22 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1309452-27 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

Total Metals Solid

CI32109-BSD1 **Blank Spike recovery is below lower control limit (B-).**
Cadmium (79% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1309452-01 through 1309452-29**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 04, 2013
Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 44A
Date Sampled: 09/20/13 08:10
Percent Solids: 87
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1221	ND (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1232	ND (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1242	ND (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1248	**0.216** (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1254	**0.404** (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1260	ND (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1262	ND (0.0598)		8082A		1	10/02/13 1:42		CI33010
Aroclor 1268	ND (0.0598)		8082A		1	10/02/13 1:42		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 44B
Date Sampled: 09/20/13 08:10
Percent Solids: 87
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1221	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1232	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1242	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1248	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1254	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1260	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1262	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010
Aroclor 1268	ND (0.0563)		8082A		1	10/02/13 3:54		CI33010

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*95 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 45A
Date Sampled: 09/20/13 08:55
Percent Solids: 91
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1221	ND (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1232	ND (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1242	ND (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1248	**0.135** (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1254	**0.234** (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1260	ND (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1262	ND (0.0558)		8082A		1	10/02/13 5:09		CI33011
Aroclor 1268	ND (0.0558)		8082A		1	10/02/13 5:09		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 45B
Date Sampled: 09/20/13 08:50
Percent Solids: 91
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1221	ND (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1232	ND (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1242	ND (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1248	**0.0945** (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1254	**0.155** (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1260	ND (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1262	ND (0.0550)		8082A		1	10/02/13 5:28		CI33011
Aroclor 1268	ND (0.0550)		8082A		1	10/02/13 5:28		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*85 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 46A
Date Sampled: 09/20/13 09:10
Percent Solids: 90
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1221	ND (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1232	ND (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1242	ND (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1248	**0.283** (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1254	**0.594** (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1260	ND (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1262	ND (0.0566)		8082A		1	10/02/13 5:47		CI33011
Aroclor 1268	ND (0.0566)		8082A		1	10/02/13 5:47		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*95 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 46B
Date Sampled: 09/20/13 09:10
Percent Solids: 93
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0520)		8082A		1	10/02/13 6:06		CI33011
Aroclor 1221	ND (0.0520)		8082A		1	10/02/13 6:06		CI33011
Aroclor 1232	ND (0.0520)		8082A		1	10/02/13 6:06		CI33011
Aroclor 1242	ND (0.0520)		8082A		1	10/02/13 6:06		CI33011
Aroclor 1248	**0.689** (0.0520)		8082A		1	10/02/13 6:06		CI33011
Aroclor 1254	**1.68** (0.260)		8082A		5	10/03/13 2:02		CI33011
Aroclor 1260	ND (0.0520)		8082A		1	10/02/13 6:06		CI33011
Aroclor 1262	ND (0.0520)		8082A		1	10/02/13 6:06		CI33011
Aroclor 1268	ND (0.0520)		8082A		1	10/02/13 6:06		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 47A
Date Sampled: 09/20/13 09:25
Percent Solids: 90
Initial Volume: 17.23
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1221	ND (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1232	ND (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1242	ND (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1248	**0.361** (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1254	**0.681** (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1260	ND (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1262	ND (0.0647)		8082A		1	10/02/13 6:25		CI33011
Aroclor 1268	ND (0.0647)		8082A		1	10/02/13 6:25		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 47B
Date Sampled: 09/20/13 09:25
Percent Solids: 93
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0539)		8082A		1	10/02/13 6:44		CI33011
Aroclor 1221	ND (0.0539)		8082A		1	10/02/13 6:44		CI33011
Aroclor 1232	ND (0.0539)		8082A		1	10/02/13 6:44		CI33011
Aroclor 1242	ND (0.0539)		8082A		1	10/02/13 6:44		CI33011
Aroclor 1248	**4.01** (0.269)		8082A		5	10/02/13 6:44		CI33011
Aroclor 1254	**2.19** (0.269)		8082A		5	10/03/13 4:33		CI33011
Aroclor 1260	ND (0.0539)		8082A		1	10/02/13 6:44		CI33011
Aroclor 1262	ND (0.0539)		8082A		1	10/02/13 6:44		CI33011
Aroclor 1268	ND (0.0539)		8082A		1	10/02/13 6:44		CI33011

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 48A
Date Sampled: 09/20/13 09:20
Percent Solids: 90
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1221	ND (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1232	ND (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1242	ND (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1248	**0.370** (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1254	**0.854** (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1260	ND (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1262	ND (0.0550)		8082A		1	10/02/13 13:44		CI33011
Aroclor 1268	ND (0.0550)		8082A		1	10/02/13 13:44		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*67 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*66 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 48B
Date Sampled: 09/20/13 09:20
Percent Solids: 92
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1221	ND (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1232	ND (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1242	ND (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1248	**0.386** (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1254	**0.757** (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1260	ND (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1262	ND (0.0538)		8082A		1	10/02/13 14:03		CI33011
Aroclor 1268	ND (0.0538)		8082A		1	10/02/13 14:03		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*59 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*54 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 49A
Date Sampled: 09/20/13 09:35
Percent Solids: 88
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0566)		8082A		1	10/02/13 14:22		CI33011
Aroclor 1221	ND (0.0566)		8082A		1	10/02/13 14:22		CI33011
Aroclor 1232	ND (0.0566)		8082A		1	10/02/13 14:22		CI33011
Aroclor 1242	ND (0.0566)		8082A		1	10/02/13 14:22		CI33011
Aroclor 1248	**2.89** (0.566)		8082A		10	10/03/13 20:46		CI33011
Aroclor 1254	**5.54** (0.566)		8082A		10	10/03/13 20:46		CI33011
Aroclor 1260	ND (0.0566)		8082A		1	10/02/13 14:22		CI33011
Aroclor 1262	ND (0.0566)		8082A		1	10/02/13 14:22		CI33011
Aroclor 1268	ND (0.0566)		8082A		1	10/02/13 14:22		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*92 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 49B
Date Sampled: 09/20/13 09:35
Percent Solids: 93
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1221	ND (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1232	ND (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1242	ND (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1248	**0.335** (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1254	**0.653** (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1260	ND (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1262	ND (0.0545)		8082A		1	10/03/13 21:05		CI33011
Aroclor 1268	ND (0.0545)		8082A		1	10/03/13 21:05		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 50A
Date Sampled: 09/20/13 09:45
Percent Solids: 90
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1221	ND (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1232	ND (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1242	ND (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1248	**0.433** (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1254	**1.01** (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1260	ND (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1262	ND (0.0540)		8082A		1	10/02/13 15:00		CI33011
Aroclor 1268	ND (0.0540)		8082A		1	10/02/13 15:00		CI33011

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*66 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*65 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 50B
Date Sampled: 09/20/13 09:45
Percent Solids: 92
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0539)		8082A		1	10/02/13 15:19		CI33011
Aroclor 1221	ND (0.0539)		8082A		1	10/02/13 15:19		CI33011
Aroclor 1232	ND (0.0539)		8082A		1	10/02/13 15:19		CI33011
Aroclor 1242	ND (0.0539)		8082A		1	10/02/13 15:19		CI33011
Aroclor 1248	**0.771** (0.0539)		8082A		1	10/03/13 21:24		CI33011
Aroclor 1254	**2.38** (0.270)		8082A		5	10/03/13 21:24		CI33011
Aroclor 1260	ND (0.0539)		8082A		1	10/02/13 15:19		CI33011
Aroclor 1262	ND (0.0539)		8082A		1	10/02/13 15:19		CI33011
Aroclor 1268	ND (0.0539)		8082A		1	10/02/13 15:19		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 51A
Date Sampled: 09/20/13 09:55
Percent Solids: 90
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0566)		8082A		1	10/02/13 15:38		CI33011
Aroclor 1221	ND (0.0566)		8082A		1	10/02/13 15:38		CI33011
Aroclor 1232	ND (0.0566)		8082A		1	10/02/13 15:38		CI33011
Aroclor 1242	ND (0.0566)		8082A		1	10/02/13 15:38		CI33011
Aroclor 1248	**2.15** (0.566)		8082A		10	10/03/13 21:43		CI33011
Aroclor 1254	**5.18** (0.566)		8082A		10	10/03/13 21:43		CI33011
Aroclor 1260	ND (0.0566)		8082A		1	10/02/13 15:38		CI33011
Aroclor 1262	ND (0.0566)		8082A		1	10/02/13 15:38		CI33011
Aroclor 1268	ND (0.0566)		8082A		1	10/02/13 15:38		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*61 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*51 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*48 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*48 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 52A
Date Sampled: 09/20/13 10:05
Percent Solids: 93
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0533)		8082A		1	10/02/13 15:56		CI33011
Aroclor 1221	ND (0.0533)		8082A		1	10/02/13 15:56		CI33011
Aroclor 1232	ND (0.0533)		8082A		1	10/02/13 15:56		CI33011
Aroclor 1242	ND (0.0533)		8082A		1	10/02/13 15:56		CI33011
Aroclor 1248	**1.59** (0.266)		8082A		5	10/03/13 22:02		CI33011
Aroclor 1254	**3.93** (0.266)		8082A		5	10/03/13 22:02		CI33011
Aroclor 1260	ND (0.0533)		8082A		1	10/02/13 15:56		CI33011
Aroclor 1262	ND (0.0533)		8082A		1	10/02/13 15:56		CI33011
Aroclor 1268	ND (0.0533)		8082A		1	10/02/13 15:56		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*105 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*94 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 53A
Date Sampled: 09/20/13 10:10
Percent Solids: 92
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1221	ND (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1232	ND (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1242	ND (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1248	**9.59** (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1254	**21.0** (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1260	ND (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1262	ND (1.07)		8082A		20	10/03/13 22:21		CI33011
Aroclor 1268	ND (1.07)		8082A		20	10/03/13 22:21		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 53B
Date Sampled: 09/20/13 10:10
Percent Solids: 90
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.11)		8082A		20	10/03/13 22:40		CI33011
Aroclor 1221	ND (0.0555)		8082A		1	10/03/13 22:40		CI33011
Aroclor 1232	ND (0.0555)		8082A		1	10/03/13 22:40		CI33011
Aroclor 1242	ND (0.0555)		8082A		1	10/03/13 22:40		CI33011
Aroclor 1248	**0.237** (0.0555)		8082A		1	10/03/13 22:40		CI33011
Aroclor 1254	**0.556** (0.0555)		8082A		1	10/03/13 22:40		CI33011
Aroclor 1260	ND (0.0555)		8082A		1	10/03/13 22:40		CI33011
Aroclor 1262	ND (0.0555)		8082A		1	10/03/13 22:40		CI33011
Aroclor 1268	ND (0.0555)		8082A		1	10/03/13 22:40		CI33011

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 55A
Date Sampled: 09/20/13 12:20
Percent Solids: 91
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0554)		8082A		1	10/02/13 16:53		CI33011
Aroclor 1221	ND (0.0554)		8082A		1	10/02/13 16:53		CI33011
Aroclor 1232	ND (0.0554)		8082A		1	10/02/13 16:53		CI33011
Aroclor 1242	ND (0.0554)		8082A		1	10/02/13 16:53		CI33011
Aroclor 1248	**1.78** (0.277)		8082A		5	10/03/13 22:59		CI33011
Aroclor 1254	**4.08** (0.277)		8082A		5	10/03/13 22:59		CI33011
Aroclor 1260	ND (0.0554)		8082A		1	10/02/13 16:53		CI33011
Aroclor 1262	ND (0.0554)		8082A		1	10/02/13 16:53		CI33011
Aroclor 1268	ND (0.0554)		8082A		1	10/02/13 16:53		CI33011

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*75 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 55B
Date Sampled: 09/20/13 12:20
Percent Solids: 94
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1221	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1232	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1242	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1248	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1254	**0.0695** (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1260	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1262	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011
Aroclor 1268	ND (0.0537)		8082A		1	10/04/13 10:23		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*105 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12A
Date Sampled: 09/20/13 10:15
Percent Solids: 90

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-21
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 10/1/13 16:37

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**0.147** (0.020)		1311/6010B	5	1	LLZ	10/02/13 21:54	50	50	CJ30230

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12A
Date Sampled: 09/20/13 10:15
Percent Solids: 90

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-21
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**7.7** (2.6)		6010B		1	LLZ	09/21/13 23:19	2.11	100	CI32109
Barium	**57.4** (2.6)		6010B		1	LLZ	09/21/13 23:19	2.11	100	CI32109
Cadmium	ND (0.53)		6010B		1	LLZ	09/21/13 23:19	2.11	100	CI32109
Chromium	**15.7** (1.1)		6010B		1	LLZ	09/21/13 23:19	2.11	100	CI32109
Lead	**271** (5.3)		6010B		1	LLZ	09/21/13 23:19	2.11	100	CI32109
Mercury	**1.42** (0.345)		7471B		10	JP	09/24/13 18:10	0.64	40	CI32108
Selenium	ND (5.3)		6010B		1	LLZ	09/21/13 23:19	2.11	100	CI32109
Silver	ND (0.53)		6010B		1	LLZ	09/21/13 23:19	2.11	100	CI32109

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12A
Date Sampled: 09/20/13 10:15
Percent Solids: 90
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-21
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1221	ND (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1232	ND (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1242	ND (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1248	**0.362** (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1254	**0.602** (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1260	**0.176** (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1262	ND (0.0554)		8082A		1	10/02/13 17:31		CI33011
Aroclor 1268	ND (0.0554)		8082A		1	10/02/13 17:31		CI33011

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12A
Date Sampled: 09/20/13 10:15
Percent Solids: 90
Initial Volume: 24.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-21
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 9/26/13 17:08

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (17.3)		MADEP-EPH		1	ML	09/27/13 16:58	CWI0357	CI32602
C19-C36 Aliphatics1	ND (17.3)		MADEP-EPH		1	ML	09/27/13 16:58	CWI0357	CI32602
C11-C22 Unadjusted Aromatics1	**54.0** (17.3)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
C11-C22 Aromatics1,2	**39.2** (17.3)		EPH8270			VSC	09/27/13 23:27		[CALC]
2-Methylnaphthalene	ND (0.23)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Acenaphthene	ND (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Naphthalene	ND (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Phenanthrene	**1.61** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Acenaphthylene	ND (0.23)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Anthracene	ND (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Benzo(a)anthracene	**1.26** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Benzo(a)pyrene	**1.22** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Benzo(b)fluoranthene	**1.84** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Benzo(g,h,i)perylene	**0.57** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Benzo(k)fluoranthene	**0.60** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Chrysene	**1.49** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Dibenzo(a,h)Anthracene	ND (0.23)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Fluoranthene	**2.96** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Fluorene	ND (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Indeno(1,2,3-cd)Pyrene	**0.83** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602
Pyrene	**2.47** (0.46)		EPH8270		1	VSC	09/27/13 23:27	CWI0367	CI32602

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*70 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*94 %*		*40-140*
Surrogate: O-Terphenyl	*68 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12A
Date Sampled: 09/20/13 10:15
Percent Solids: 90
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-21
Sample Matrix: Soil
Units: °C
Analyst: NAR
Prepared: 10/1/13 16:37

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.0** (N/A)		1311		1	NAR	10/02/13 10:47	CJ30111
Temperature (Max C)	**21.5** (N/A)		1311		1	NAR	10/02/13 10:47	CJ30111
Temperature (Range)	**Temperature is within 23 +/-2 ºC.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 13A
Date Sampled: 09/20/13 10:20
Percent Solids: 90
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-22
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1221	ND (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1232	ND (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1242	ND (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1248	**LC, P 0.0608** (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1254	**0.259** (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1260	ND (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1262	ND (0.0575)		8082A		1	10/02/13 17:50		CI33011
Aroclor 1268	ND (0.0575)		8082A		1	10/02/13 17:50		CI33011

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 14A
Date Sampled: 09/20/13 10:25
Percent Solids: 92
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-23
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 10/1/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1221	ND (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1232	ND (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1242	ND (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1248	**0.149** (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1254	**0.479** (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1260	ND (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1262	ND (0.0551)		8082A		1	10/02/13 20:04		CJ30108
Aroclor 1268	ND (0.0551)		8082A		1	10/02/13 20:04		CJ30108

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*67 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 2A
Date Sampled: 09/20/13 10:30
Percent Solids: 88
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-24
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 10/1/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1221	ND (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1232	ND (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1242	ND (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1248	**0.100** (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1254	**0.298** (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1260	**0.113** (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1262	ND (0.0577)		8082A		1	10/02/13 20:22		CJ30108
Aroclor 1268	ND (0.0577)		8082A		1	10/02/13 20:22		CJ30108

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*72 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 3A
Date Sampled: 09/20/13 10:40
Percent Solids: 89
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-25
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 10/1/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1221	ND (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1232	ND (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1242	ND (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1248	**0.183** (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1254	**0.517** (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1260	**0.126** (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1262	ND (0.0572)		8082A		1	10/02/13 20:41		CJ30108
Aroclor 1268	ND (0.0572)		8082A		1	10/02/13 20:41		CJ30108

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 4A
Date Sampled: 09/20/13 10:45
Percent Solids: 88
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-26
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1221	ND (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1232	ND (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1242	ND (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1248	**0.0901** (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1254	**0.265** (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1260	ND (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1262	ND (0.0556)		8082A		1	10/03/13 23:56		CJ30108
Aroclor 1268	ND (0.0556)		8082A		1	10/03/13 23:56		CJ30108

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*124 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*53 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 15A
Date Sampled: 09/20/13 10:50
Percent Solids: 79
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-27
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1221	ND (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1232	ND (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1242	ND (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1248	**5.59** (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1254	**15.1** (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1260	ND (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1262	ND (1.29)		8082A		20	10/03/13 23:18		CJ30108
Aroclor 1268	ND (1.29)		8082A		20	10/03/13 23:18		CJ30108

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 16A
Date Sampled: 09/20/13 10:55
Percent Solids: 61
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-28
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 10/1/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0839)		8082A		1	10/02/13 21:38		CJ30108
Aroclor 1221	ND (0.0839)		8082A		1	10/02/13 21:38		CJ30108
Aroclor 1232	ND (0.0839)		8082A		1	10/02/13 21:38		CJ30108
Aroclor 1242	ND (0.0839)		8082A		1	10/02/13 21:38		CJ30108
Aroclor 1248	**0.850** (0.0839)		8082A		1	10/02/13 21:38		CJ30108
Aroclor 1254	**2.71** (0.420)		8082A		5	10/03/13 23:37		CJ30108
Aroclor 1260	ND (0.0839)		8082A		1	10/02/13 21:38		CJ30108
Aroclor 1262	ND (0.0839)		8082A		1	10/02/13 21:38		CJ30108
Aroclor 1268	ND (0.0839)		8082A		1	10/02/13 21:38		CJ30108

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 17A
Date Sampled: 09/20/13 11:00
Percent Solids: 59
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309452
ESS Laboratory Sample ID: 1309452-29
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/1/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1221	ND (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1232	ND (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1242	ND (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1248	**0.899** (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1254	**1.64** (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1260	ND (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1262	ND (0.0870)		8082A		1	10/04/13 0:15		CJ30108
Aroclor 1268	ND (0.0870)		8082A		1	10/04/13 0:15		CJ30108

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*121 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311 TCLP Metals										
Batch CJ30230 - 3005A_TCLP										
Blank										
Lead	ND	0.020	mg/L							
Blank										
Lead	ND	0.020	mg/L							
LCS										
Lead	0.494	0.020	mg/L	0.5000		99	80-120			
LCS Dup										
Lead	0.488	0.020	mg/L	0.5000		98	80-120	1	20	
Total Metals Solid										
Batch CI32108 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	21.3	3.25	mg/kg wet	19.90		107	80-120			
LCS Dup										
Mercury	18.7	3.00	mg/kg wet	19.90		94	80-120	13	20	
Batch CI32109 - 3050B										
Blank										
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
LCS										
Arsenic	92.2	8.9	mg/kg wet	99.60		93	80-120			
Barium	283	8.9	mg/kg wet	310.0		91	80-120			
Cadmium	157	1.79	mg/kg wet	182.0		86	80-120			
Chromium	127	3.6	mg/kg wet	136.0		94	80-120			
Lead	109	17.9	mg/kg wet	115.0		95	80-120			
Selenium	134	17.9	mg/kg wet	150.0		89	80-120			
Silver	37.4	1.79	mg/kg wet	40.40		93	80-120			
LCS Dup										
Arsenic	84.3	9.1	mg/kg wet	99.60		85	80-120	9	20	
Barium	261	9.1	mg/kg wet	310.0		84	80-120	8	20	
Cadmium	144	1.83	mg/kg wet	182.0		79	80-120	9	20	B-
Chromium	119	3.6	mg/kg wet	136.0		87	80-120	7	20	
Lead	97.5	18.2	mg/kg wet	115.0		85	80-120	11	20	
Selenium	125	18.2	mg/kg wet	150.0		83	80-120	7	20	
Silver	35.3	1.83	mg/kg wet	40.40		87	80-120	6	20	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CI32109 - 3050B										
Reference										
Lead	4060	31.3	mg/kg wet	4490		90	80-120			
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33010 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33010 - 3540										
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33010 - 3540										
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0219*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0205*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0201*		mg/kg wet	*0.02500*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0188*		mg/kg wet	*0.02500*		*75*	*30-150*			
LCS										
Aroclor 1016	0.500	0.0500	mg/kg wet	0.5000		100	40-140			
Aroclor 1260	0.457	0.0500	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl	*0.0211*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0202*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0189*		mg/kg wet	*0.02500*		*76*	*30-150*			
LCS Dup										
Aroclor 1016	0.538	0.0500	mg/kg wet	0.5000		108	40-140	7	30	
Aroclor 1260	0.493	0.0500	mg/kg wet	0.5000		99	40-140	8	30	
Surrogate: Decachlorobiphenyl	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0224*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0235*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0204*		mg/kg wet	*0.02500*		*81*	*30-150*			
Batch CI33011 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33011 - 3540										
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33011 - 3540										
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							

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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33011 - 3540										
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0271*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0246*		mg/kg wet	*0.02500*		*99*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0217*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0256*		mg/kg wet	*0.02500*		*102*	*30-150*			
LCS										
Aroclor 1016	0.486	0.0500	mg/kg wet	0.5000		97	40-140			
Aroclor 1260	0.501	0.0500	mg/kg wet	0.5000		100	40-140			
Surrogate: Decachlorobiphenyl	*0.0258*		mg/kg wet	*0.02500*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0230*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0211*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0238*		mg/kg wet	*0.02500*		*95*	*30-150*			
LCS Dup										
Aroclor 1016	0.514	0.0500	mg/kg wet	0.5000		103	40-140	6	30	
Aroclor 1260	0.529	0.0500	mg/kg wet	0.5000		106	40-140	5	30	
Surrogate: Decachlorobiphenyl	*0.0270*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0243*		mg/kg wet	*0.02500*		*97*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0251*		mg/kg wet	*0.02500*		*101*	*30-150*			
Batch CJ30108 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ30108 - 3540										
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							

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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ30108 - 3540										
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0226*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0207*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0198*		mg/kg wet	*0.02500*		*79*	*30-150*			
LCS										
Aroclor 1016	0.521	0.0500	mg/kg wet	0.5000		104	40-140			
Aroclor 1260	0.456	0.0500	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0205*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ30108 - 3540										
Surrogate: Tetrachloro-m-xylene [2C]	*0.0194*		mg/kg wet	*0.02500*		*78*	*30-150*			
LCS Dup										
Aroclor 1016	0.607	0.0500	mg/kg wet	0.5000		121	40-140	15	30	
Aroclor 1260	0.549	0.0500	mg/kg wet	0.5000		110	40-140	19	30	
Surrogate: Decachlorobiphenyl	*0.0258*		mg/kg wet	*0.02500*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0238*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0250*		mg/kg wet	*0.02500*		*100*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32602 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.67*		mg/kg wet	*2.000*		*83*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							

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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32602 - 3546										
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.64*		mg/kg wet	*2.000*		*82*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.67*		mg/kg wet	*2.000*		*84*	*40-140*			
Surrogate: O-Terphenyl	*1.68*		mg/kg wet	*2.000*		*84*	*40-140*			
LCS										
C19-C36 Aliphatics1	14.1	15.0	mg/kg wet	16.00		88	40-140			
C9-C18 Aliphatics1	9.3	15.0	mg/kg wet	12.00		78	40-140			
Decane (C10)	1.2	0.5	mg/kg wet	2.000		60	40-140			
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Dodecane (C12)	1.3	0.5	mg/kg wet	2.000		65	40-140			
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Hexadecane (C16)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		45	30-140			
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Tetradecane (C14)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Surrogate: 1-Chlorooctadecane	*1.62*		mg/kg wet	*2.000*		*81*	*40-140*			
LCS										
2-Methylnaphthalene	1.33	0.20	mg/kg wet	2.000		67	40-140			
Acenaphthene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Acenaphthylene	1.41	0.20	mg/kg wet	2.000		70	40-140			
Anthracene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Benzo(a)anthracene	1.61	0.40	mg/kg wet	2.000		80	40-140			
Benzo(a)pyrene	1.72	0.40	mg/kg wet	2.000		86	40-140			
Benzo(b)fluoranthene	1.72	0.40	mg/kg wet	2.000		86	40-140			
Benzo(g,h,i)perylene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Benzo(k)fluoranthene	1.67	0.40	mg/kg wet	2.000		83	40-140			
C11-C22 Unadjusted Aromatics1	29.2	15.0	mg/kg wet	34.00		86	40-140			
Chrysene	1.60	0.40	mg/kg wet	2.000		80	40-140			
Dibenzo(a,h)Anthracene	1.78	0.20	mg/kg wet	2.000		89	40-140			
Fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140			
Fluorene	1.49	0.40	mg/kg wet	2.000		74	40-140			
Indeno(1,2,3-cd)Pyrene	1.83	0.40	mg/kg wet	2.000		91	40-140			
Naphthalene	1.26	0.40	mg/kg wet	2.000		63	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32602 - 3546										
Phenanthrene	1.58	0.40	mg/kg wet	2.000		79	40-140			
Pyrene	1.65	0.40	mg/kg wet	2.000		83	40-140			
Surrogate: 2-Bromonaphthalene	*1.80*		mg/kg wet	*2.000*		*90*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.81*		mg/kg wet	*2.000*		*91*	*40-140*			
Surrogate: O-Terphenyl	*1.69*		mg/kg wet	*2.000*		*84*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	13.9	15.0	mg/kg wet	16.00		87	40-140	1	25	
C9-C18 Aliphatics1	9.0	15.0	mg/kg wet	12.00		75	40-140	3	25	
Decane (C10)	1.2	0.5	mg/kg wet	2.000		58	40-140	4	25	
Docosane (C22)	1.7	0.5	mg/kg wet	2.000		83	40-140	5	25	
Dodecane (C12)	1.3	0.5	mg/kg wet	2.000		64	40-140	2	25	
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		86	40-140	4	25	
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		79	40-140	4	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		80	40-140	4	25	
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		85	40-140	4	25	
Nonane (C9)	0.9	0.5	mg/kg wet	2.000		43	30-140	4	25	
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		86	40-140	3	25	
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		83	40-140	4	25	
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		84	40-140	4	25	
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		72	40-140	3	25	
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		85	40-140	3	25	
Surrogate: 1-Chlorooctadecane	*1.51*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.31	0.20	mg/kg wet	2.000		66	40-140	2	25	
Acenaphthene	1.39	0.40	mg/kg wet	2.000		69	40-140	0.5	25	
Acenaphthylene	1.38	0.20	mg/kg wet	2.000		69	40-140	2	25	
Anthracene	1.42	0.40	mg/kg wet	2.000		71	40-140	6	25	
Benzo(a)anthracene	1.54	0.40	mg/kg wet	2.000		77	40-140	4	25	
Benzo(a)pyrene	1.67	0.40	mg/kg wet	2.000		83	40-140	3	25	
Benzo(b)fluoranthene	1.61	0.40	mg/kg wet	2.000		80	40-140	7	25	
Benzo(g,h,i)perylene	1.56	0.40	mg/kg wet	2.000		78	40-140	5	25	
Benzo(k)fluoranthene	1.56	0.40	mg/kg wet	2.000		78	40-140	6	25	
C11-C22 Unadjusted Aromatics1	28.4	15.0	mg/kg wet	34.00		84	40-140	3	25	
Chrysene	1.50	0.40	mg/kg wet	2.000		75	40-140	7	25	
Dibenzo(a,h)Anthracene	1.72	0.20	mg/kg wet	2.000		86	40-140	4	25	
Fluoranthene	1.53	0.40	mg/kg wet	2.000		76	40-140	6	25	
Fluorene	1.44	0.40	mg/kg wet	2.000		72	40-140	3	25	
Indeno(1,2,3-cd)Pyrene	1.72	0.40	mg/kg wet	2.000		86	40-140	6	25	
Naphthalene	1.24	0.40	mg/kg wet	2.000		62	40-140	2	25	
Phenanthrene	1.51	0.40	mg/kg wet	2.000		76	40-140	4	25	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32602 - 3546										
Pyrene	1.58	0.40	mg/kg wet	2.000		79	40-140	5	25	
Surrogate: 2-Bromonaphthalene	*1.74*		mg/kg wet	*2.000*		*87*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.76*		mg/kg wet	*2.000*		*88*	*40-140*			
Surrogate: O-Terphenyl	*1.58*		mg/kg wet	*2.000*		*79*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309452

Notes and Definitions

Z17	Temperature is within 23 +/-2 ºC.
U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
P	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
D	Diluted.
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309452

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13090452
Date Project Due: 9/27/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **0.5**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
21	Yes	4 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	4 oz Soil Jar	1	NP
23	Yes	4 oz Soil Jar	1	NP
24	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group

ESS Project ID: 13090452

25	Yes	4 oz Soil Jar	1	NP
26	Yes	4 oz Soil Jar	1	NP
27	Yes	4 oz Soil Jar	1	NP
28	Yes	4 oz Soil Jar	1	NP
29	Yes	4 oz Soil Jar	1	NP

Completed By: LC Date/Time: 9/21/13 0028

Reviewed By: AM Date/Time: 9/23/13 1122

013090452-30
Preservative: NP
01000000554773

Unused label

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

9/20/13 (20)

Turn Time ___X___ Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1309452

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners, 1900 Crown Colony, Suite 402, Quincy, MA 02169		Project #:	Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy		Address:	
City	State	Zip	PO#:
Telephone #: 617-657-0200	Fax #:	Email Address: ccf@envpartners.com	

Write Required Analysis: PCB

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	9-20-13	810			S	44A	1	1	G	X
2		810			S	44B	1	1		X
3		855			S	45A	1	1		X
4		850			S	45B	1	1		X
5		910			S	46A	1	1		X
6		910			S	46B	1	1		X
7		925			S	47A	1	1		X
8		925			S	47B	1	1		X
9		920			S	48A	1	1		X
10		920			S	48B	1	1		X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp 0.5 ICE KH

Internal Use Only
[✓] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Carter Fahy

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	9/20	[signature]	9-20-13 14:20	[signature]	9-20-13 16:25	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 2 of ~~5~~ 3 9/20/13

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID 1309452

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners, 1900 Crown Colony, Suite 402, Quincy, MA 02169	Project #	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address		
City	State	Zip	PO#
Telephone #: 617-657-0200	Fax #	Email Address: ccf@envpartners.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	Write Required Analysis
11	9-20-13	935			S	49A	1	1	G	X	
12		935			S	49B	1	1	G	X	
13		945			S	50A	1	1	G	X	
14		945			S	50B	1	1	G	X	
15		955			S	51A	1	1	G	X	
16		1005			S	52A	1	1	G	X	
17		1010			S	53A	1	1	G	X	
18		1010			S	53B	1	1	G	X	
19		1220			S	~~54A~~ 55A	1	1	G	X	
20		1220			S	~~54B~~ 55B	1	1	G	X	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 0.5 ICE KH

Internal Use Only
[✓] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Carter Fahy

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	9/20	[signature]	9-20-13 14:26	[signature]	9-20-13 16:25	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

Page ~~5~~ 3 of ~~5~~ 3 9/20/13 (4)

Turn Time ___ Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1309452

Electronic Deliverable Yes ___ No ___
Format: Excel __ Access __ PDF __ Other _____

Co. Name: Environmental Partners, 1900 Crown Colony, Suite 402, Quincy, MA 02169

Project #

Project Name (20 Char. or less): Strawberry Hill

Contact Person: Carter Fahy

Address

City State Zip PO#

Telephone #: 617-657-0200

Fax #

Email Address: cf@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	~~PEB~~	~~Pesticides~~	~~Herbicides~~	RCRA8	TCLP	Pb	EPH					
21	9-20-13	1015				12A	1	2	G	X				X	X	X	X					
22	↓	1020				13A	1	1	G	X												
23		1025				14A	1	1	G	X												
24		1030				2A	1	1	G	X												
25		1040				3A	1	1	G	X												
26		1045				4A	1	1	G	X												
27		1050				15A	1	1	G	X												
28		1055				16A	1	1	G	X												
(29) ~~30~~		1100				17A	1	1	G	X												
9/21/13	↓					~~325A~~		~~5~~	~~G~~	~~X~~												

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp 0.5 ICE KH

Internal Use Only
[✓] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Carter Fahy

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]		[signature]	9-20-13 14:26	[signature]	9-20-13 16:25	[signature]	9/20/13 2000
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1309451

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:53 pm, Oct 04, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

SAMPLE RECEIPT

The following samples were received on September 20, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1309451-01	35A	Soil	8082A
1309451-02	35B	Soil	8082A
1309451-03	36A	Soil	8082A
1309451-04	36B	Soil	8082A
1309451-05	37A	Soil	8082A
1309451-06	37B	Soil	8082A
1309451-07	38A	Soil	8082A
1309451-08	38B	Soil	8082A
1309451-09	39A	Soil	8082A
1309451-10	39B	Soil	8082A
1309451-11	7A	Soil	8082A
1309451-12	8A	Soil	6010B, 7471B, 8082A
1309451-13	9A	Soil	8082A
1309451-14	10A	Soil	8082A
1309451-15	5A	Soil	8082A
1309451-16	6A	Soil	8082A
1309451-17	0A	Soil	8082A
1309451-18	1.5A	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1309451-15 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl [2C] (204% @ 30-150%)

Total Metals Solid

CI32032-SRM1 **Standard Reference Material is biased high (R+).**
Mercury (155% @ 70-130%)

CI32109-BSD1 **Blank Spike recovery is below lower control limit (B-).**
Cadmium (79% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1309451-01 through 1309451-18**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 04, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 35A
Date Sampled: 09/19/13 12:57
Percent Solids: 91
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0565)		8082A		1	10/01/13 22:05		CI33010
Aroclor 1221	ND (0.0565)		8082A		1	10/01/13 22:05		CI33010
Aroclor 1232	ND (0.0565)		8082A		1	10/01/13 22:05		CI33010
Aroclor 1242	ND (0.0565)		8082A		1	10/01/13 22:05		CI33010
Aroclor 1248	**1.99** (0.282)		8082A		5	10/03/13 0:46		CI33010
Aroclor 1254	**3.71** (0.282)		8082A		5	10/03/13 0:46		CI33010
Aroclor 1260	ND (0.0565)		8082A		1	10/01/13 22:05		CI33010
Aroclor 1262	ND (0.0565)		8082A		1	10/01/13 22:05		CI33010
Aroclor 1268	ND (0.0565)		8082A		1	10/01/13 22:05		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*49 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*44 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*44 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 35B
Date Sampled: 09/19/13 12:57
Percent Solids: 91
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1221	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1232	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1242	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1248	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1254	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1260	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1262	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010
Aroclor 1268	ND (0.0571)		8082A		1	10/01/13 22:24		CI33010

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 36A
Date Sampled: 09/19/13 12:59
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1221	ND (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1232	ND (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1242	ND (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1248	**0.444** (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1254	**0.923** (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1260	ND (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1262	ND (0.0570)		8082A		1	10/01/13 22:43		CI33010
Aroclor 1268	ND (0.0570)		8082A		1	10/01/13 22:43		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 36B
Date Sampled: 09/19/13 12:59
Percent Solids: 91
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1221	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1232	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1242	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1248	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1254	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1260	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1262	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010
Aroclor 1268	ND (0.0547)		8082A		1	10/01/13 23:02		CI33010

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*47 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*48 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 37A
Date Sampled: 09/19/13 13:05
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1221	ND (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1232	ND (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1242	ND (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1248	**0.238** (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1254	**0.629** (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1260	ND (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1262	ND (0.0569)		8082A		1	10/01/13 23:21		CI33010
Aroclor 1268	ND (0.0569)		8082A		1	10/01/13 23:21		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*80 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 37B
Date Sampled: 09/19/13 13:05
Percent Solids: 90
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1221	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1232	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1242	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1248	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1254	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1260	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1262	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010
Aroclor 1268	ND (0.0567)		8082A		1	10/01/13 23:40		CI33010

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 38A
Date Sampled: 09/19/13 13:15
Percent Solids: 87
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1221	ND (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1232	ND (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1242	ND (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1248	**0.208** (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1254	**0.526** (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1260	ND (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1262	ND (0.0576)		8082A		1	10/01/13 23:58		CI33010
Aroclor 1268	ND (0.0576)		8082A		1	10/01/13 23:58		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*81 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*126 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 38B
Date Sampled: 09/19/13 13:15
Percent Solids: 88
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1221	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1232	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1242	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1248	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1254	**0.183** (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1260	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1262	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010
Aroclor 1268	ND (0.0549)		8082A		1	10/02/13 0:17		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 39A
Date Sampled: 09/19/13 13:20
Percent Solids: 85
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1221	ND (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1232	ND (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1242	ND (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1248	**0.288** (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1254	**0.734** (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1260	ND (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1262	ND (0.0615)		8082A		1	10/02/13 0:36		CI33010
Aroclor 1268	ND (0.0615)		8082A		1	10/02/13 0:36		CI33010

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 39B
Date Sampled: 09/19/13 13:20
Percent Solids: 89
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1221	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1232	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1242	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1248	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1254	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1260	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1262	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010
Aroclor 1268	ND (0.0562)		8082A		1	10/02/13 0:55		CI33010

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*60 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*62 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 7A
Date Sampled: 09/19/13 15:48
Percent Solids: 88
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0577)		8082A		1	10/02/13 1:14		CI33010
Aroclor 1221	ND (0.0577)		8082A		1	10/02/13 1:14		CI33010
Aroclor 1232	ND (0.0577)		8082A		1	10/02/13 1:14		CI33010
Aroclor 1242	ND (0.0577)		8082A		1	10/02/13 1:14		CI33010
Aroclor 1248	**0.239** (0.0577)		8082A		1	10/02/13 1:14		CI33010
Aroclor 1254	**1.36** (0.288)		8082A		5	10/03/13 1:05		CI33010
Aroclor 1260	ND (0.0577)		8082A		1	10/02/13 1:14		CI33010
Aroclor 1262	ND (0.0577)		8082A		1	10/02/13 1:14		CI33010
Aroclor 1268	ND (0.0577)		8082A		1	10/02/13 1:14		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*79 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*47 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*51 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8A
Date Sampled: 09/19/13 15:50
Percent Solids: 77

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**8.1** (3.1)		6010B		1	LLZ	09/21/13 23:14	2.08	100	CI32109
Barium	**70.8** (3.1)		6010B		1	LLZ	09/21/13 23:14	2.08	100	CI32109
Cadmium	ND (0.62)		6010B		1	LLZ	09/21/13 23:14	2.08	100	CI32109
Chromium	**23.7** (1.2)		6010B		1	LLZ	09/21/13 23:14	2.08	100	CI32109
Lead	**378** (6.2)		6010B		1	LLZ	09/21/13 23:14	2.08	100	CI32109
Mercury	**0.097** (0.043)		7471B		1	NAR	09/24/13 13:02	0.6	40	CI32032
Selenium	ND (6.2)		6010B		1	LLZ	09/21/13 23:14	2.08	100	CI32109
Silver	ND (0.62)		6010B		1	LLZ	09/21/13 23:14	2.08	100	CI32109

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8A
Date Sampled: 09/19/13 15:50
Percent Solids: 77
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1221	ND (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1232	ND (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1242	ND (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1248	**0.430** (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1254	**0.916** (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1260	ND (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1262	ND (0.0627)		8082A		1	10/01/13 22:51		CI33010
Aroclor 1268	ND (0.0627)		8082A		1	10/01/13 22:51		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 9A
Date Sampled: 09/19/13 15:55
Percent Solids: 87
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1221	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1232	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1242	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1248	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1254	**0.293** (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1260	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1262	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010
Aroclor 1268	ND (0.0564)		8082A		1	10/03/13 1:24		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*85 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 10A
Date Sampled: 09/19/13 16:00
Percent Solids: 84
Initial Volume: 20.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1221	ND (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1232	ND (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1242	ND (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1248	**0.348** (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1254	**0.600** (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1260	ND (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1262	ND (0.0584)		8082A		1	10/01/13 23:29		CI33010
Aroclor 1268	ND (0.0584)		8082A		1	10/01/13 23:29		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*93 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 5A
Date Sampled: 09/19/13 00:00
Percent Solids: 81
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0643)		8082A		1	10/01/13 23:48		CI33010
Aroclor 1221	ND (0.0643)		8082A		1	10/01/13 23:48		CI33010
Aroclor 1232	ND (0.0643)		8082A		1	10/01/13 23:48		CI33010
Aroclor 1242	ND (0.0643)		8082A		1	10/01/13 23:48		CI33010
Aroclor 1248	**1.67** (0.321)		8082A		5	10/03/13 1:43		CI33010
Aroclor 1254	**3.20** (0.321)		8082A		5	10/03/13 1:43		CI33010
Aroclor 1260	ND (0.0643)		8082A		1	10/01/13 23:48		CI33010
Aroclor 1262	ND (0.0643)		8082A		1	10/01/13 23:48		CI33010
Aroclor 1268	ND (0.0643)		8082A		1	10/01/13 23:48		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*85 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*204 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 6A
Date Sampled: 09/19/13 00:00
Percent Solids: 67
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1221	ND (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1232	ND (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1242	ND (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1248	**0.239** (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1254	**0.360** (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1260	ND (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1262	ND (0.0777)		8082A		1	10/02/13 0:07		CI33010
Aroclor 1268	ND (0.0777)		8082A		1	10/02/13 0:07		CI33010

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*62 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*50 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*58 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 0A
Date Sampled: 09/19/13 00:00
Percent Solids: 96
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1221	ND (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1232	ND (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1242	ND (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1248	**0.452** (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1254	**0.850** (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1260	**0.124** (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1262	ND (0.0530)		8082A		1	10/02/13 0:26		CI33010
Aroclor 1268	ND (0.0530)		8082A		1	10/02/13 0:26		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*79 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*91 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 1.5A
Date Sampled: 09/19/13 00:00
Percent Solids: 95
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309451
ESS Laboratory Sample ID: 1309451-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1221	ND (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1232	ND (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1242	ND (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1248	**0.246** (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1254	**0.400** (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1260	ND (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1262	ND (0.0551)		8082A		1	10/02/13 0:45		CI33010
Aroclor 1268	ND (0.0551)		8082A		1	10/02/13 0:45		CI33010

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CI32032 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	18.6	3.09	mg/kg wet	19.90		93	80-120			
LCS Dup										
Mercury	21.0	3.05	mg/kg wet	19.90		105	80-120	12	20	
Reference										
Mercury	1.55	0.160	mg/kg wet	1.000		155	70-130			R+
Batch CI32109 - 3050B										
Blank										
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
LCS										
Arsenic	92.2	8.9	mg/kg wet	99.60		93	80-120			
Barium	283	8.9	mg/kg wet	310.0		91	80-120			
Cadmium	157	1.79	mg/kg wet	182.0		86	80-120			
Chromium	127	3.6	mg/kg wet	136.0		94	80-120			
Lead	109	17.9	mg/kg wet	115.0		95	80-120			
Selenium	134	17.9	mg/kg wet	150.0		89	80-120			
Silver	37.4	1.79	mg/kg wet	40.40		93	80-120			
LCS Dup										
Arsenic	84.3	9.1	mg/kg wet	99.60		85	80-120	9	20	
Barium	261	9.1	mg/kg wet	310.0		84	80-120	8	20	
Cadmium	144	1.83	mg/kg wet	182.0		79	80-120	9	20	B-
Chromium	119	3.6	mg/kg wet	136.0		87	80-120	7	20	
Lead	97.5	18.2	mg/kg wet	115.0		85	80-120	11	20	
Selenium	125	18.2	mg/kg wet	150.0		83	80-120	7	20	
Silver	35.3	1.83	mg/kg wet	40.40		87	80-120	6	20	
Reference										
Lead	4060	31.3	mg/kg wet	4490		90	80-120			
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33010 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33010 - 3540										
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33010 - 3540										
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33010 - 3540										
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0219*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0205*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0201*		mg/kg wet	*0.02500*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0188*		mg/kg wet	*0.02500*		*75*	*30-150*			
LCS										
Aroclor 1016	0.500	0.0500	mg/kg wet	0.5000		100	40-140			
Aroclor 1260	0.457	0.0500	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl	*0.0211*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0202*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0189*		mg/kg wet	*0.02500*		*76*	*30-150*			
LCS Dup										
Aroclor 1016	0.538	0.0500	mg/kg wet	0.5000		108	40-140	7	30	
Aroclor 1260	0.493	0.0500	mg/kg wet	0.5000		99	40-140	8	30	
Surrogate: Decachlorobiphenyl	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0224*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0235*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0204*		mg/kg wet	*0.02500*		*81*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309451

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
R+	Standard Reference Material is biased high (R+).
D	Diluted.
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309451

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13090451
Date Project Due: 9/27/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **1.6**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes/No**
17. Were samples received intact? **Yes/No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.
Sample(s) 5A, 6A, 0A, 1.5 A add to COC by Sample Receiver ED 9/25/13

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP

Completed By: JOL Date/Time: 9/21/13 0010
Reviewed By: [signature] Date/Time: 9/23/13 1110

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

9/20/13 (10) Page 8 of 9 (2)

Turn Time: X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from: MA RI CT NH NJ NY ME Other ____

Is this project for any of the following: MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1309450

Electronic Deliverable: Yes X No ____
Format: Excel X Access ____ PDF X Other ____

(451) (1a)

Co. Name: Environmental Partners Grp
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr. #402
City: Quincy State: MA Zip: 02169 PO#:
Telephone #: 617-657-0200 Fax #: Email Address: cfahy@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	9-19-13	1257			1	35A	1	1	G	X
2	↓	1257			1	35B	1	1	↓	X
3	↓	1259			1	36A	1	1	↓	X
4	↓	1259			1	36B	1	1	↓	X
5	↓	1305			1	37A	1	1	↓	X
6	↓	1305			1	37B	1	1	↓	X
7	↓	1315			1	38A	1	1	↓	X
8	↓	1315			1	38B	1	1	↓	X
9	↓	1320			1	39A	1	1	↓	X
10	↓	1320			1	39B	1	1	↓	X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: ✓ [✓] Pickup
Cooler Temp: 1.6+1.3 Ice+Ice Packs KH [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Stephen Gabriel

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1pm	[signature]	9-20-13 13:00	[signature]	9-20-13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

Page ~~1~~ 2 of ~~4~~ 2 9/20/13

Turn Time X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1309452 (20)

Electronic Deliverable Yes X No ____
Format: Excel X Access ____ PDF X Other 451

Co. Name: Environmental Partners Corp
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr, #402
City: Quincy State: MA Zip: 02169
PO#:
Telephone #: 617-657-0200
Fax #:
Email Address: cfa@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	RCRA 8	TCLP	EPH	Pb										
11	9-19-13	1548			S	7A	1	1	G	X														
12	↓	1550			S	8A	1	2	G	X	X	X	X	X										
13		1555			S	9A	1	1	G	X														
14	↓	1600			S	10A	1	1	G	X														
15					S	5A ①	1	1	G	✓														
16					S	6A ①	1	1	G	✓														
17					S	0A ①	1	1	G	✓														
18					S	1.5A ①	1	1	G	✓														

9/20/13 (20)

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ____ No

Internal Use Only

Seals Intact ____ Yes ____ No NA: ✓

[✓] Pickup

Cooler Temp: 1.6+1.3 ICE+ICE PACKS Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Stephen Gabriel

Comments: ① Added sample 9/20/13 (20)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1 pm	[signature]	9/20/13 13:00	[signature]	9-20-13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1309450

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:10 am, Oct 04, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

SAMPLE RECEIPT

The following samples were received on September 20, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1309450-01	25A	Soil	8082A
1309450-02	25B	Soil	8082A
1309450-03	26A	Soil	8082A
1309450-04	26B	Soil	8082A
1309450-05	27A	Soil	8082A
1309450-06	27B	Soil	8082A
1309450-07	28A	Soil	8082A
1309450-08	30A	Soil	8082A
1309450-09	30B	Soil	8082A
1309450-10	28B	Soil	8082A
1309450-11	29A	Soil	8082A
1309450-12	29B	Soil	8082A
1309450-13	31A	Soil	8082A
1309450-14	31B	Soil	8082A
1309450-15	32A	Soil	8082A
1309450-16	32B	Soil	8082A
1309450-17	33A	Soil	8082A
1309450-18	33B	Soil	8082A
1309450-19	34A	Soil	8082A
1309450-20	34B	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1309450-14 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1309450-15 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1309450-16 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1248

1309450-17 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1309450-01 through 1309450-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 04, 2013
Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 25A
Date Sampled: 09/19/13 11:13
Percent Solids: 92
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1221	ND (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1232	ND (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1242	ND (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1248	**0.147** (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1254	**0.347** (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1260	ND (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1262	ND (0.0568)		8082A		1	10/01/13 7:32		CI32706
Aroclor 1268	ND (0.0568)		8082A		1	10/01/13 7:32		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 25B
Date Sampled: 09/19/13 12:00
Percent Solids: 94
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1221	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1232	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1242	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1248	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1254	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1260	**0.113** (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1262	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009
Aroclor 1268	ND (0.0512)		8082A		1	10/01/13 12:20		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 26A
Date Sampled: 09/19/13 11:15
Percent Solids: 94
Initial Volume: 20.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1221	ND (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1232	ND (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1242	ND (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1248	ND (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1254	**0.102** (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1260	**0.133** (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1262	ND (0.0521)		8082A		1	10/01/13 12:38		CI33009
Aroclor 1268	ND (0.0521)		8082A		1	10/01/13 12:38		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 26B
Date Sampled: 09/19/13 12:07
Percent Solids: 91
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1221	ND (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1232	ND (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1242	ND (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1248	**0.278** (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1254	**0.617** (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1260	ND (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1262	ND (0.0557)		8082A		1	10/01/13 12:57		CI33009
Aroclor 1268	ND (0.0557)		8082A		1	10/01/13 12:57		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 27A
Date Sampled: 09/19/13 11:20
Percent Solids: 92
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1221	ND (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1232	ND (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1242	ND (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1248	**0.458** (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1254	**1.04** (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1260	ND (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1262	ND (0.0538)		8082A		1	10/01/13 13:16		CI33009
Aroclor 1268	ND (0.0538)		8082A		1	10/01/13 13:16		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*77 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 27B
Date Sampled: 09/19/13 12:25
Percent Solids: 93
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1221	ND (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1232	ND (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1242	ND (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1248	**0.398** (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1254	**0.968** (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1260	ND (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1262	ND (0.0535)		8082A		1	10/01/13 13:35		CI33009
Aroclor 1268	ND (0.0535)		8082A		1	10/01/13 13:35		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 28A
Date Sampled: 09/19/13 12:35
Percent Solids: 89
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0570)		8082A		1	10/01/13 13:54		CI33009
Aroclor 1221	ND (0.0570)		8082A		1	10/01/13 13:54		CI33009
Aroclor 1232	ND (0.0570)		8082A		1	10/01/13 13:54		CI33009
Aroclor 1242	ND (0.0570)		8082A		1	10/01/13 13:54		CI33009
Aroclor 1248	**0.580** (0.0570)		8082A		1	10/01/13 13:54		CI33009
Aroclor 1254	**1.77** (0.285)		8082A		5	10/02/13 20:21		CI33009
Aroclor 1260	ND (0.0570)		8082A		1	10/01/13 13:54		CI33009
Aroclor 1262	ND (0.0570)		8082A		1	10/01/13 13:54		CI33009
Aroclor 1268	ND (0.0570)		8082A		1	10/01/13 13:54		CI33009

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 30A
Date Sampled: 09/19/13 12:43
Percent Solids: 90
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0571)		8082A		1	10/01/13 14:13		CI33009
Aroclor 1221	ND (0.0571)		8082A		1	10/01/13 14:13		CI33009
Aroclor 1232	ND (0.0571)		8082A		1	10/01/13 14:13		CI33009
Aroclor 1242	ND (0.0571)		8082A		1	10/01/13 14:13		CI33009
Aroclor 1248	**3.00** (0.571)		8082A		10	10/02/13 20:40		CI33009
Aroclor 1254	**6.92** (0.571)		8082A		10	10/02/13 20:40		CI33009
Aroclor 1260	ND (0.0571)		8082A		1	10/01/13 14:13		CI33009
Aroclor 1262	ND (0.0571)		8082A		1	10/01/13 14:13		CI33009
Aroclor 1268	ND (0.0571)		8082A		1	10/01/13 14:13		CI33009

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*109 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*105 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 30B
Date Sampled: 09/19/13 12:43
Percent Solids: 86
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1221	ND (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1232	ND (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1242	ND (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1248	**0.211** (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1254	**0.458** (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1260	ND (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1262	ND (0.0597)		8082A		1	10/02/13 20:59		CI33009
Aroclor 1268	ND (0.0597)		8082A		1	10/02/13 20:59		CI33009

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*119 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*112 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 28B
Date Sampled: 09/19/13 00:00
Percent Solids: 85
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1221	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1232	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1242	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1248	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1254	**0.137** (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1260	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1262	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009
Aroclor 1268	ND (0.0607)		8082A		1	10/01/13 14:50		CI33009

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29A
Date Sampled: 09/19/13 12:40
Percent Solids: 91
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0555)		8082A		1	10/01/13 15:09		CI33009
Aroclor 1221	ND (0.0555)		8082A		1	10/01/13 15:09		CI33009
Aroclor 1232	ND (0.0555)		8082A		1	10/01/13 15:09		CI33009
Aroclor 1242	ND (0.0555)		8082A		1	10/01/13 15:09		CI33009
Aroclor 1248	**1.02** (0.0555)		8082A		1	10/01/13 15:09		CI33009
Aroclor 1254	**2.84** (0.278)		8082A		5	10/02/13 21:18		CI33009
Aroclor 1260	ND (0.0555)		8082A		1	10/01/13 15:09		CI33009
Aroclor 1262	ND (0.0555)		8082A		1	10/01/13 15:09		CI33009
Aroclor 1268	ND (0.0555)		8082A		1	10/01/13 15:09		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29B
Date Sampled: 09/19/13 12:40
Percent Solids: 88
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1221	ND (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1232	ND (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1242	ND (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1248	**0.0589** (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1254	**0.151** (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1260	ND (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1262	ND (0.0578)		8082A		1	10/02/13 21:37		CI33009
Aroclor 1268	ND (0.0578)		8082A		1	10/02/13 21:37		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*127 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*118 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*115 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 31A
Date Sampled: 09/19/13 12:45
Percent Solids: 91
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0558)		8082A		1	10/01/13 15:47		CI33009
Aroclor 1221	ND (0.0558)		8082A		1	10/01/13 15:47		CI33009
Aroclor 1232	ND (0.0558)		8082A		1	10/01/13 15:47		CI33009
Aroclor 1242	ND (0.0558)		8082A		1	10/01/13 15:47		CI33009
Aroclor 1248	**2.31** (0.558)		8082A		10	10/02/13 21:56		CI33009
Aroclor 1254	**5.22** (0.558)		8082A		10	10/02/13 21:56		CI33009
Aroclor 1260	ND (0.0558)		8082A		1	10/01/13 15:47		CI33009
Aroclor 1262	ND (0.0558)		8082A		1	10/01/13 15:47		CI33009
Aroclor 1268	ND (0.0558)		8082A		1	10/01/13 15:47		CI33009

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*81 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*63 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 31B
Date Sampled: 09/19/13 12:45
Percent Solids: 90
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1221	ND (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1232	ND (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1242	ND (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1248	**4.93** (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1254	**10.7** (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1260	ND (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1262	ND (1.15)		8082A		20	10/02/13 22:15		CI33009
Aroclor 1268	ND (1.15)		8082A		20	10/02/13 22:15		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 32A
Date Sampled: 09/19/13 12:48
Percent Solids: 90
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1221	ND (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1232	ND (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1242	ND (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1248	**31.3** (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1254	**66.3** (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1260	ND (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1262	ND (5.47)		8082A		100	10/02/13 22:34		CI33009
Aroclor 1268	ND (5.47)		8082A		100	10/02/13 22:34		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 32B
Date Sampled: 09/19/13 12:48
Percent Solids: 87
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1221	ND (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1232	ND (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1242	ND (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1248	**P 0.123** (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1254	**0.261** (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1260	ND (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1262	ND (0.0550)		8082A		1	10/02/13 22:52		CI33009
Aroclor 1268	ND (0.0550)		8082A		1	10/02/13 22:52		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*63 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*61 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 33A
Date Sampled: 09/19/13 12:52
Percent Solids: 88
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1221	ND (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1232	ND (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1242	ND (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1248	**17.7** (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1254	**38.6** (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1260	ND (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1262	ND (2.90)		8082A		50	10/02/13 23:11		CI33009
Aroclor 1268	ND (2.90)		8082A		50	10/02/13 23:11		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 33B
Date Sampled: 09/19/13 12:52
Percent Solids: 88
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0587)		8082A		1	10/02/13 23:49		CI33009
Aroclor 1221	ND (0.0587)		8082A		1	10/02/13 23:49		CI33009
Aroclor 1232	ND (0.0587)		8082A		1	10/02/13 23:49		CI33009
Aroclor 1242	ND (0.0587)		8082A		1	10/02/13 23:49		CI33009
Aroclor 1248	**1.11** (0.0587)		8082A		1	10/02/13 23:49		CI33009
Aroclor 1254	**2.69** (0.294)		8082A		5	10/02/13 23:30		CI33009
Aroclor 1260	ND (0.0587)		8082A		1	10/02/13 23:49		CI33009
Aroclor 1262	ND (0.0587)		8082A		1	10/02/13 23:49		CI33009
Aroclor 1268	ND (0.0587)		8082A		1	10/02/13 23:49		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*105 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*113 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 34A
Date Sampled: 09/19/13 12:55
Percent Solids: 79
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0661)		8082A		1	10/01/13 19:33		CI33009
Aroclor 1221	ND (0.0661)		8082A		1	10/01/13 19:33		CI33009
Aroclor 1232	ND (0.0661)		8082A		1	10/01/13 19:33		CI33009
Aroclor 1242	ND (0.0661)		8082A		1	10/01/13 19:33		CI33009
Aroclor 1248	**0.919** (0.0661)		8082A		1	10/01/13 19:33		CI33009
Aroclor 1254	**3.11** (0.331)		8082A		5	10/03/13 14:23		CI33009
Aroclor 1260	**0.396** (0.0661)		8082A		1	10/01/13 19:33		CI33009
Aroclor 1262	ND (0.0661)		8082A		1	10/01/13 19:33		CI33009
Aroclor 1268	ND (0.0661)		8082A		1	10/01/13 19:33		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*125 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*132 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*55 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 34B
Date Sampled: 09/19/13 12:55
Percent Solids: 88
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309450
ESS Laboratory Sample ID: 1309450-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1221	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1232	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1242	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1248	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1254	**0.146** (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1260	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1262	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009
Aroclor 1268	ND (0.0588)		8082A		1	10/03/13 0:27		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32706 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32706 - 3540										
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32706 - 3540										
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0232*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0217*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0202*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0188*		mg/kg wet	*0.02500*		*75*	*30-150*			
LCS										
Aroclor 1016	0.521	0.0500	mg/kg wet	0.5000		104	40-140			
Aroclor 1260	0.494	0.0500	mg/kg wet	0.5000		99	40-140			
Surrogate: Decachlorobiphenyl	*0.0235*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0202*		mg/kg wet	*0.02500*		*81*	*30-150*			
LCS Dup										
Aroclor 1016	0.517	0.0500	mg/kg wet	0.5000		103	40-140	0.7	30	
Aroclor 1260	0.491	0.0500	mg/kg wet	0.5000		98	40-140	0.8	30	
Surrogate: Decachlorobiphenyl	*0.0233*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0222*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0199*		mg/kg wet	*0.02500*		*80*	*30-150*			
Batch CI33009 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33009 - 3540										
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33009 - 3540										
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0195*		mg/kg wet	*0.02500*		*78*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0186*		mg/kg wet	*0.02500*		*74*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0196*		mg/kg wet	*0.02500*		*78*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33009 - 3540										
Surrogate: Tetrachloro-m-xylene [2C]	*0.0184*		mg/kg wet	*0.02500*		*73*	*30-150*			
LCS										
Aroclor 1016	0.474	0.0500	mg/kg wet	0.5000		95	40-140			
Aroclor 1260	0.431	0.0500	mg/kg wet	0.5000		86	40-140			
Surrogate: Decachlorobiphenyl	*0.0207*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0197*		mg/kg wet	*0.02500*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0207*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0182*		mg/kg wet	*0.02500*		*73*	*30-150*			
LCS Dup										
Aroclor 1016	0.504	0.0500	mg/kg wet	0.5000		101	40-140	6	30	
Aroclor 1260	0.474	0.0500	mg/kg wet	0.5000		95	40-140	10	30	
Surrogate: Decachlorobiphenyl	*0.0219*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0210*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0185*		mg/kg wet	*0.02500*		*74*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309450

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
P	Percent difference between primary and confirmation results exceeds 40% (P).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309450

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13090450
Date Project Due: 9/27/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **1.6**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Sample 28B added to COC by Sample Receiver ED 9/25/13

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP

Completed By: [illegible] Date/Time: 9/20/13 2359
Reviewed By: [illegible] Date/Time: 9/23/13 1130

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 61-29 of 9 9/20/13 (2a)

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID (1309450)

Electronic Deliverable ~~Yes X No~~

Format: Excel X Access __ PDF X Other _____

Co. Name: Environmental Partners Corp
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr, #402
City: Quincy State: MA Zip: 02169
PO#:
Telephone #: 617-657-0200
Fax #:
Email Address: cfahy@envpartners.com

Write Required Analysis: PCB

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	9-19-13	1113			S	25A	1	1	G	✓
2	↓	1200			S	25B	1	1	G	✓
3		1115			S	26A	1	1	G	✓
4		1207			S	26B	1	1	G	✓
5		1120			S	27A	1	1	G	✓
6		1225			S	27B	1	1	G	✓
7		1233			S	28A	1	1	G	✓
8		1243			S	30A	1	1	G	✓
9	↓	1243			S	30B	1	1	G	✓
10						28B (1)	1	1	G	✓ 9/20/13 (2a)

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes __ No Internal Use Only

Seals Intact __ Yes __ No NA: ✓ [✓] Pickup

Cooler Temp 1.6+1.3 ICE+ICE PACKS [ ] Technicians KH

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Stephen Gabriel

Comments: (1) Added sample 9/20/13 (2a)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
(1) BN	9/20/13 1 pm	[signature]	9-20-13 13:00	[signature]	9-20-13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 2 of 2 9/20/13

Turn Time X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1309450

Electronic Deliverable Yes X No ____
Format: Excel X Access ____ PDF X Other ____

Co. Name: Environmental Partners Corp
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr #402
City: Quincy State: MA Zip: 02169
PO#:
Telephone #: 617-657-0200
Fax #:
Email Address: cfahy@envpartners.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
11	9-19-13	1240				29A	1	1	G	X
12		1240				29B	1	1	G	X
13		1245				31A	1	1	G	X
14		1245				31B	1	1	G	X
15		1248				32A	1	1	G	X
16		1248				32B	1	1	G	X
17		1252				33A	1	1	G	X
18		1252				33B	1	1	G	X
19		1255				34A	1	1	G	X
20		1255				34B	1	1	G	X

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: ✓ [✓] Pickup
Cooler Temp: 1.6 + 1.3 Ice + Ice Packs KH [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____
Sampled by: Stephen Gabriel
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1pm	[signature]	9-20-13 13:00	[signature]	9-20-13 13:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1309449

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:52 am, Oct 03, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

SAMPLE RECEIPT

The following samples were received on September 20, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1309449-01	115A	Soil	8082A
1309449-02	115B	Soil	8082A
1309449-03	90B	Soil	8082A
1309449-04	63A	Soil	8082A
1309449-05	63B	Soil	8082A
1309449-06	241B	Soil	8082A
1309449-07	235A	Soil	8082A
1309449-08	235B	Soil	8082A
1309449-09	229B	Soil	8082A
1309449-10	218A	Soil	8082A
1309449-11	218B	Soil	8082A
1309449-12	207A	Soil	8082A
1309449-13	207B	Soil	8082A
1309449-14	139A	Soil	8082A
1309449-15	139B	Soil	8082A
1309449-16	22A	Soil	8082A
1309449-17	22B	Soil	8082A
1309449-18	11A	Soil	8082A
1309449-19	11B	Soil	8082A
1309449-20	23A	Soil	8082A
1309449-21	23B	Soil	8082A
1309449-22	1A	Soil	8082A
1309449-23	1B	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309449

1309449-24	24A	Soil	8082A
1309449-25	24B	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1309449-04	**Lower value is used due to matrix interferences (LC).**
	Aroclor 1248
1309449-04	**Percent difference between primary and confirmation results exceeds 40% (P).**
	Aroclor 1248

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1309449-01 through 1309449-25**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 03, 2013
Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 115A
Date Sampled: 09/19/13 12:50
Percent Solids: 83
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1221	ND (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1232	ND (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1242	ND (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1248	**0.502** (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1254	**1.15** (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1260	ND (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1262	ND (0.0610)		8082A		1	09/30/13 7:10		CI32709
Aroclor 1268	ND (0.0610)		8082A		1	09/30/13 7:10		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*87 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*77 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 115B
Date Sampled: 09/19/13 12:50
Percent Solids: 88
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1221	ND (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1232	ND (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1242	ND (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1248	**0.265** (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1254	**0.643** (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1260	ND (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1262	ND (0.0572)		8082A		1	09/30/13 7:29		CI32709
Aroclor 1268	ND (0.0572)		8082A		1	09/30/13 7:29		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*75 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*63 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 90B
Date Sampled: 09/19/13 13:00
Percent Solids: 88
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1221	ND (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1232	ND (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1242	ND (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1248	**0.0864** (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1254	**0.229** (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1260	ND (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1262	ND (0.0549)		8082A		1	09/30/13 22:23		CI32709
Aroclor 1268	ND (0.0549)		8082A		1	09/30/13 22:23		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*59 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*56 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 63A
Date Sampled: 09/19/13 13:10
Percent Solids: 87
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1221	ND (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1232	ND (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1242	ND (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1248	**LC, P 0.0672** (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1254	**0.188** (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1260	ND (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1262	ND (0.0598)		8082A		1	10/01/13 6:42		CI32709
Aroclor 1268	ND (0.0598)		8082A		1	10/01/13 6:42		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*99 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 63B
Date Sampled: 09/19/13 13:10
Percent Solids: 88
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1221	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1232	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1242	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1248	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1254	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1260	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1262	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709
Aroclor 1268	ND (0.0555)		8082A		1	09/30/13 22:42		CI32709

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*79 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*63 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 241B
Date Sampled: 09/19/13 11:20
Percent Solids: 83
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1221	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1232	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1242	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1248	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1254	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1260	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1262	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709
Aroclor 1268	ND (0.0618)		8082A		1	09/30/13 23:01		CI32709

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 235A
Date Sampled: 09/19/13 11:25
Percent Solids: 87
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1221	ND (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1232	ND (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1242	ND (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1248	**0.125** (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1254	**0.229** (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1260	ND (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1262	ND (0.0582)		8082A		1	09/30/13 23:58		CI32706
Aroclor 1268	ND (0.0582)		8082A		1	09/30/13 23:58		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*80 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 235B
Date Sampled: 09/19/13 11:25
Percent Solids: 86
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1221	ND (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1232	ND (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1242	ND (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1248	**0.244** (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1254	**0.369** (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1260	ND (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1262	ND (0.0603)		8082A		1	10/01/13 22:31		CI32706
Aroclor 1268	ND (0.0603)		8082A		1	10/01/13 22:31		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*95 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 229B
Date Sampled: 09/19/13 11:30
Percent Solids: 88
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1221	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1232	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1242	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1248	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1254	**0.0568** (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1260	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1262	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706
Aroclor 1268	ND (0.0558)		8082A		1	10/01/13 0:17		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 218A
Date Sampled: 09/19/13 11:35
Percent Solids: 84
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1221	ND (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1232	ND (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1242	ND (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1248	**0.459** (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1254	**1.11** (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1260	ND (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1262	ND (0.0620)		8082A		1	10/01/13 0:36		CI32706
Aroclor 1268	ND (0.0620)		8082A		1	10/01/13 0:36		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*68 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*60 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 218B
Date Sampled: 09/19/13 11:35
Percent Solids: 85
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1221	ND (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1232	ND (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1242	ND (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1248	**0.188** (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1254	**0.510** (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1260	ND (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1262	ND (0.0585)		8082A		1	10/01/13 0:55		CI32706
Aroclor 1268	ND (0.0585)		8082A		1	10/01/13 0:55		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*85 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 207A
Date Sampled: 09/19/13 12:05
Percent Solids: 73
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0698)		8082A		1	10/01/13 1:14		CI32706
Aroclor 1221	ND (0.0698)		8082A		1	10/01/13 1:14		CI32706
Aroclor 1232	ND (0.0698)		8082A		1	10/01/13 1:14		CI32706
Aroclor 1242	ND (0.0698)		8082A		1	10/01/13 1:14		CI32706
Aroclor 1248	**1.16** (0.0698)		8082A		1	10/01/13 1:14		CI32706
Aroclor 1254	**2.92** (0.349)		8082A		5	10/01/13 15:11		CI32706
Aroclor 1260	ND (0.0698)		8082A		1	10/01/13 1:14		CI32706
Aroclor 1262	ND (0.0698)		8082A		1	10/01/13 1:14		CI32706
Aroclor 1268	ND (0.0698)		8082A		1	10/01/13 1:14		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*79 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 207B
Date Sampled: 09/19/13 12:05
Percent Solids: 84
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1221	ND (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1232	ND (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1242	ND (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1248	**0.284** (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1254	**0.634** (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1260	ND (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1262	ND (0.0569)		8082A		1	10/01/13 1:33		CI32706
Aroclor 1268	ND (0.0569)		8082A		1	10/01/13 1:33		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*59 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*53 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*50 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*48 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 139A
Date Sampled: 09/19/13 12:40
Percent Solids: 75
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0695)		8082A		1	10/01/13 1:51		CI32706
Aroclor 1221	ND (0.0695)		8082A		1	10/01/13 1:51		CI32706
Aroclor 1232	ND (0.0695)		8082A		1	10/01/13 1:51		CI32706
Aroclor 1242	ND (0.0695)		8082A		1	10/01/13 1:51		CI32706
Aroclor 1248	**1.35** (0.0695)		8082A		1	10/01/13 1:51		CI32706
Aroclor 1254	**3.38** (0.347)		8082A		5	10/01/13 15:30		CI32706
Aroclor 1260	ND (0.0695)		8082A		1	10/01/13 1:51		CI32706
Aroclor 1262	ND (0.0695)		8082A		1	10/01/13 1:51		CI32706
Aroclor 1268	ND (0.0695)		8082A		1	10/01/13 1:51		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*87 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 139B
Date Sampled: 09/19/13 12:40
Percent Solids: 83
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1221	ND (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1232	ND (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1242	ND (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1248	**0.554** (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1254	**1.18** (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1260	ND (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1262	ND (0.0623)		8082A		1	10/01/13 2:10		CI32706
Aroclor 1268	ND (0.0623)		8082A		1	10/01/13 2:10		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 22A
Date Sampled: 09/19/13 09:20
Percent Solids: 94
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1221	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1232	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1242	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1248	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1254	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1260	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1262	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706
Aroclor 1268	ND (0.0523)		8082A		1	10/01/13 4:23		CI32706

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*85 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 22B
Date Sampled: 09/19/13 09:20
Percent Solids: 93
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1221	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1232	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1242	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1248	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1254	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1260	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1262	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706
Aroclor 1268	ND (0.0549)		8082A		1	10/01/13 4:42		CI32706

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 11A
Date Sampled: 09/19/13 09:30
Percent Solids: 96
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1221	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1232	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1242	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1248	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1254	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1260	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1262	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706
Aroclor 1268	ND (0.0536)		8082A		1	10/01/13 5:01		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*65 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*58 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 11B
Date Sampled: 09/19/13 09:30
Percent Solids: 95
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1221	ND (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1232	ND (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1242	ND (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1248	**0.353** (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1254	**0.796** (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1260	ND (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1262	ND (0.0548)		8082A		1	10/01/13 5:20		CI32706
Aroclor 1268	ND (0.0548)		8082A		1	10/01/13 5:20		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 23A
Date Sampled: 09/19/13 09:40
Percent Solids: 94
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1221	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1232	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1242	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1248	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1254	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1260	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1262	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706
Aroclor 1268	ND (0.0550)		8082A		1	10/01/13 5:39		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*80 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 23B
Date Sampled: 09/19/13 09:40
Percent Solids: 93
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-21
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1221	ND (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1232	ND (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1242	ND (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1248	**0.424** (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1254	**0.914** (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1260	ND (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1262	ND (0.0560)		8082A		1	10/01/13 5:58		CI32706
Aroclor 1268	ND (0.0560)		8082A		1	10/01/13 5:58		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 1A
Date Sampled: 09/19/13 09:50
Percent Solids: 94
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-22
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1221	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1232	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1242	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1248	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1254	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1260	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1262	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706
Aroclor 1268	ND (0.0550)		8082A		1	10/01/13 6:16		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 1B
Date Sampled: 09/19/13 09:50
Percent Solids: 94
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-23
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1221	ND (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1232	ND (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1242	ND (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1248	**0.124** (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1254	**0.283** (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1260	ND (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1262	ND (0.0552)		8082A		1	10/01/13 6:35		CI32706
Aroclor 1268	ND (0.0552)		8082A		1	10/01/13 6:35		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 24A
Date Sampled: 09/19/13 11:10
Percent Solids: 89
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-24
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1221	ND (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1232	ND (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1242	ND (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1248	**0.130** (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1254	**0.290** (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1260	ND (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1262	ND (0.0556)		8082A		1	10/01/13 6:54		CI32706
Aroclor 1268	ND (0.0556)		8082A		1	10/01/13 6:54		CI32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 24B
Date Sampled: 09/19/13 11:10
Percent Solids: 95
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309449
ESS Laboratory Sample ID: 1309449-25
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1221	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1232	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1242	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1248	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1254	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1260	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1262	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706
Aroclor 1268	ND (0.0509)		8082A		1	10/01/13 7:13		CI32706

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32706 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32706 - 3540										
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32706 - 3540										
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0232*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0217*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0202*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0188*		mg/kg wet	*0.02500*		*75*	*30-150*			
LCS										
Aroclor 1016	0.521	0.0500	mg/kg wet	0.5000		104	40-140			
Aroclor 1260	0.494	0.0500	mg/kg wet	0.5000		99	40-140			
Surrogate: Decachlorobiphenyl	*0.0235*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0202*		mg/kg wet	*0.02500*		*81*	*30-150*			
LCS Dup										
Aroclor 1016	0.517	0.0500	mg/kg wet	0.5000		103	40-140	0.7	30	
Aroclor 1260	0.491	0.0500	mg/kg wet	0.5000		98	40-140	0.8	30	
Surrogate: Decachlorobiphenyl	*0.0233*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0222*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0199*		mg/kg wet	*0.02500*		*80*	*30-150*			
Batch CI32709 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32709 - 3540										
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32709 - 3540										
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0219*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0204*		mg/kg wet	*0.02500*		*82*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32709 - 3540										
Surrogate: Tetrachloro-m-xylene [2C]	*0.0190*		mg/kg wet	*0.02500*		*76*	*30-150*			
LCS										
Aroclor 1016	0.512	0.0500	mg/kg wet	0.5000		102	40-140			
Aroclor 1260	0.485	0.0500	mg/kg wet	0.5000		97	40-140			
Surrogate: Decachlorobiphenyl	*0.0235*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0224*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0193*		mg/kg wet	*0.02500*		*77*	*30-150*			
LCS Dup										
Aroclor 1016	0.525	0.0500	mg/kg wet	0.5000		105	40-140	2	30	
Aroclor 1260	0.500	0.0500	mg/kg wet	0.5000		100	40-140	3	30	
Surrogate: Decachlorobiphenyl	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0195*		mg/kg wet	*0.02500*		*78*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309449

Notes and Definitions

U	Analyte included in the analysis, but not detected
P	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309449

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13090449
Date Project Due: 9/27/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: **1.6**
   Iced With: **Ice**
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes|No
17. Were samples received intact? Yes|No

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Sample(s) 319A + 320A not received
EW 9/25/13

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
21	Yes	4 oz Soil Jar	1	NP
22	Yes	4 oz Soil Jar	1	NP
23	Yes	4 oz Soil Jar	1	NP
24	Yes	4 oz Soil Jar	1	NP
25	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group

ESS Project ID: 13090449

Completed By: [illegible]

Date/Time: 9/20/13 2345

Reviewed By: [illegible]

Date/Time: 9/23/13 11:[illegible]

013090449-26

Preservative: *NP*

010000000554701

Unused label

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

1309449 Page 3 of 43

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID 1309449 9/20/13 (EW)

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name	Project #	Project Name (20 Char. or less)
Environmental Partners Corp		Strawberry Hill

Contact Person	Address
Carter Fahy	1900 Crown Colony Dr, #402

City	State	Zip	PO#
Quincy	MA	02169	

Telephone #	Fax #	Email Address
617-657-0200		ccf@envpartners.com

Write Required Analysis: PCB

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	9-19-13	1250				115 A	1	1	G	X
2		1250				115 B	1	1	G	X
3		1300				90 B	1	1	G	X
4		1310				63 A	1	1	G	X
5		1310				63 B	1	1	G	X
		1336				319A (1)	1	1	G	X
		1430				320A (1)	1	1	G	X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 1.6 1.3 Ice + Ice Packs

Internal Use Only ✓ [ ] Pickup [ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Stephen Gabriel

Comments: (1) Did not receive sample 9/20/13 (EW)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1pm	[signature]	9-20-13 13:00	[signature]	9-20-13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

Page 4 of 4 (2 of 3) 9/20/13

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1309449 (Ic)

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners Corp
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr, #402
City: Quincy State: MA Zip: 02169
PO#:
Telephone #: 617-657-0200
Fax #:
Email Address: cfahy@envpartners.com

Write Required Analysis: PCB

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
6	9-19-13	1120				241B	1	1	G	X
7		1125				235A	1	1	G	X
8		1125				235B	1	1	G	X
9 (10)		1130				229B	1	1	G	X
10 (11)		1135				218A	1	1	G	X
11 (12)		1135				218B	1	1	G	X
12 (13)		1205				207A	1	1	G	X
13 (14)		1205				207B	1	1	G	X
14 (15)		1240				139A	1	1	G	X
15 (16)		1240				139B	1	1	G	X

9/20/13

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: ✓ [✓] Pickup
Cooler Temp: 1.6 1.3 ICE + ICE PACKS [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Stephen Gabriel

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1pm	[signature]	9-20-13 13:00	[signature]	9-20-13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

9/20/13 (2a) Page 5 of 9 (3 3)

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from: MA RI CT NH NJ NY ME Other _____

Is this project for any of the following: MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID 1309499

Electronic Deliverable Yes X No ___
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners Corp	Project #:
Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Dr #402
City: Quincy State: MA Zip: 02169	PO#:
Telephone #: 617-657-0200	Fax #:
Email Address: cfahy@envpartners.com	

(2a) 9/20/13

	ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB												
16	17	920	9-19-13			S	22A	1	1	G	X												
17	18	920	→			S	22B	1	1		X												
18	19	930	→			S	11A	1	1		X												
19	20	930	→			S	11B	1	1		X												
20	21	940	→			S	23A	1	1		X												
21	22	940	→			S	23B	1	1		X												
22	23	950	→			S	1A	1	1		X												
23	24	950	→			S	1B	1	1		X												
24	25	1110	→			S	24A	1	1		X												
25	26	1110	→			S	24B	1	1		X												

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 1.6 + 1.3 Ice + Ice Packs KH [ ] Technicians _____

Internal Use Only [✓] Pickup

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Stephen Gabriel

Comments: collected on 9-19-13

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1pm	[signature]	9-20-13 13:00	[signature]	9-20-13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1309445

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:09 pm, Oct 04, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

SAMPLE RECEIPT

The following samples were received on September 20, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.
Pesticide Analysis: Samples 1309445-01 and 1309445-20 had PCB AR1254 which interfered with the pesticide analysis.
Peaks identified as pesticides are most likely PCB congeners from AR1254.

Lab Number	SampleName	Matrix	Analysis
1309445-01	54A	Soil	1010, 7.3.3.2, 7.3.4.1, 8081B, 8082A, 8151A, 8260B Low, 8270D, 9045
1309445-02	54B	Soil	8082A
1309445-03	56A	Soil	8082A
1309445-04	56B	Soil	8082A
1309445-05	57A	Soil	8082A
1309445-06	57B	Soil	8082A
1309445-07	58A	Soil	8082A
1309445-08	58B	Soil	8082A
1309445-09	59A	Soil	8082A
1309445-10	59B	Soil	8082A
1309445-11	60A	Soil	8082A
1309445-12	60B	Soil	8082A
1309445-13	61A	Soil	8082A
1309445-14	61B	Soil	8082A
1309445-15	62A	Soil	8082A
1309445-16	321A	Soil	8082A
1309445-17	322A	Soil	8082A
1309445-18	323A	Soil	8082A
1309445-19	324A	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309445

1309445-20	325A	Soil	1010, 7.3.3.2, 7.3.4.1, 8081B, 8082A, 8151A, 8270D, 9045

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309445

PROJECT NARRATIVE

8081A Organochlorine Pesticides

1309445-01 **Reported above the quantitation limit; Estimated value (E).**
4,4´-DDT , Endosulfan I [2C] , Endosulfan II

1309445-01 **Sample contained other compounds, such as PCBs, which may have interfered with the Pesticide analysis.**
4,4´-DDT , Endosulfan I [2C] , Endosulfan II , Endosulfan Sulfate , Endrin Ketone

1309445-01 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl [2C] (152% @ 30-150%)

1309445-20 **Reported above the quantitation limit; Estimated value (E).**
4,4´-DDT

1309445-20 **Sample contained other compounds, such as PCBs, which may have interfered with the Pesticide analysis.**
4,4´-DDT , Endosulfan I [2C] , Endosulfan II , Endrin Ketone

1309445-20 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl [2C] (346% @ 30-150%)

CWI0355-CCV7 **Continuing Calibration recovery is below lower control limit (C-).**
4,4´-DDT (76% @ 80-120%), Methoxychlor (75% @ 80-120%)

CWI0355-CCV7 **Surrogate recovery(ies) below lower control limit (S-).**
Decachlorobiphenyl (73% @ 80-120%)

8082A Polychlorinated Biphenyls (PCB)

1309445-09 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl [2C] (190% @ 30-150%)

1309445-11 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl [2C] (195% @ 30-150%)

1309445-12 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl [2C] (171% @ 30-150%)

8151A Chlorinated Herbicides

CWI0317-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
MCPA [2C] (81% @ 85-115%)

CWI0317-CCV2 **Continuing Calibration recovery is below lower control limit (C-).**
MCPA [2C] (81% @ 85-115%)

8270D Semi-Volatile Organic Compounds

CWI0284-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (90% @ 80-120%), Pentachlorophenol (103% @ 80-120%)

CWI0284-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
4-Bromophenyl-phenylether (126% @ 80-120%)

CWI0284-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
4-Nitrophenol (70% @ 80-120%)

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1309445-01 through 1309445-20**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	(X) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	(X) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 04, 2013
Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 5.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,1,1-Trichloroethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,1,2,2-Tetrachloroethane	ND (0.0021)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,1,2-Trichloroethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,1-Dichloroethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,1-Dichloroethene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,1-Dichloropropene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2,3-Trichlorobenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2,3-Trichloropropane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2,4-Trichlorobenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2,4-Trimethylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2-Dibromo-3-Chloropropane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2-Dibromoethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2-Dichlorobenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2-Dichloroethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,2-Dichloropropane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,3,5-Trimethylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,3-Dichlorobenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,3-Dichloropropane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,4-Dichlorobenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
1,4-Dioxane	ND (0.107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
2,2-Dichloropropane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
2-Butanone	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
2-Chlorotoluene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
2-Hexanone	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
4-Chlorotoluene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
4-Isopropyltoluene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
4-Methyl-2-Pentanone	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Acetone	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Benzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Bromobenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 5.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Bromodichloromethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Bromoform	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Bromomethane	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Carbon Disulfide	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Carbon Tetrachloride	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Chlorobenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Chloroethane	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Chloroform	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Chloromethane	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
cis-1,2-Dichloroethene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
cis-1,3-Dichloropropene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Dibromochloromethane	ND (0.0021)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Dibromomethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Dichlorodifluoromethane	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Diethyl Ether	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Di-isopropyl ether	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Ethyl tertiary-butyl ether	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Ethylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Hexachlorobutadiene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Isopropylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Methyl tert-Butyl Ether	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Methylene Chloride	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Naphthalene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
n-Butylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
n-Propylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
sec-Butylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Styrene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
tert-Butylbenzene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Tertiary-amyl methyl ether	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Tetrachloroethene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 5.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Toluene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
trans-1,2-Dichloroethene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
trans-1,3-Dichloropropene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Trichloroethene	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Trichlorofluoromethane	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Vinyl Chloride	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Xylene O	ND (0.0054)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Xylene P,M	ND (0.0107)		8260B Low		1	09/23/13 18:49	CWI0293	CI32337
Xylenes (Total)	ND (0.0107)		8260B Low		1	09/23/13 18:49		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*86 %*		*70-130*
Surrogate: Dibromofluoromethane	*95 %*		*70-130*
Surrogate: Toluene-d8	*93 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/24/13 18:06

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
4,4´-DDE [2C]	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
4,4´-DDT	**E, PI 0.205** (0.0028)		8081B		1	09/27/13 18:21		CI32422
Aldrin	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
alpha-BHC	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
alpha-Chlordane [2C]	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
beta-BHC	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Chlordane (Total)	ND (0.0227)		8081B		1	09/27/13 18:21		CI32422
delta-BHC	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Dieldrin [2C]	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Endosulfan I [2C]	**E, PI 0.0351** (0.0028)		8081B		1	09/27/13 18:21		CI32422
Endosulfan II	**E, PI 0.0519** (0.0028)		8081B		1	09/27/13 18:21		CI32422
Endosulfan Sulfate	**PI 0.0035** (0.0028)		8081B		1	09/27/13 18:21		CI32422
Endrin [2C]	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Endrin Ketone	**PI 0.0125** (0.0028)		8081B		1	09/27/13 18:21		CI32422
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	09/27/13 18:21		CI32422
gamma-Chlordane	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Heptachlor [2C]	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Heptachlor Epoxide	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Hexachlorobenzene	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Methoxychlor [2C]	ND (0.0028)		8081B		1	09/27/13 18:21		CI32422
Toxaphene	ND (0.142)		8081B		1	09/27/13 18:21		CI32422
Toxaphene [2C]	ND (0.142)		8081B		1	09/27/13 18:21		CI32422

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*141 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*152 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/30/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0553)		8082A		1	10/01/13 12:01		CI33009
Aroclor 1221	ND (0.0553)		8082A		1	10/01/13 12:01		CI33009
Aroclor 1232	ND (0.0553)		8082A		1	10/01/13 12:01		CI33009
Aroclor 1242	ND (0.0553)		8082A		1	10/01/13 12:01		CI33009
Aroclor 1248	**1.48** (0.553)		8082A		10	10/03/13 14:05		CI33009
Aroclor 1254	**4.57** (0.553)		8082A		10	10/03/13 14:05		CI33009
Aroclor 1260	ND (0.0553)		8082A		1	10/01/13 12:01		CI33009
Aroclor 1262	ND (0.0553)		8082A		1	10/01/13 12:01		CI33009
Aroclor 1268	ND (0.0553)		8082A		1	10/01/13 12:01		CI33009

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 10.3
Final Volume: 4
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 9/23/13 15:00

8151A Chlorinated Herbicides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2,4,5-T	ND (0.008)		8151A		1	09/25/13 2:33	CWI0317	CI32326
2,4,5-TP (Silvex)	ND (0.008)		8151A		1	09/25/13 2:33	CWI0317	CI32326
2,4-D	ND (0.042)		8151A		1	09/25/13 2:33	CWI0317	CI32326
2,4-DB	ND (0.042)		8151A		1	09/25/13 2:33	CWI0317	CI32326
Dalapon	ND (0.040)		8151A		1	09/25/13 2:33	CWI0317	CI32326
Dicamba	ND (0.008)		8151A		1	09/25/13 2:33	CWI0317	CI32326
Dichlorprop	ND (0.042)		8151A		1	09/25/13 2:33	CWI0317	CI32326
Dinoseb	ND (0.042)		8151A		1	09/25/13 2:33	CWI0317	CI32326
MCPA	ND (2.06)		8151A		1	09/25/13 2:33	CWI0317	CI32326
MCPP	ND (2.08)		8151A		1	09/25/13 2:33	CWI0317	CI32326

	%Recovery	*Qualifier*	*Limits*
Surrogate: DCAA	*119 %*		*30-150*
Surrogate: DCAA [2C]	*108 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
1,2,4-Trichlorobenzene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
1,2-Dichlorobenzene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
1,3-Dichlorobenzene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
1,4-Dichlorobenzene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2,4,5-Trichlorophenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2,4,6-Trichlorophenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2,4-Dichlorophenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2,4-Dimethylphenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2,4-Dinitrophenol	ND (1.88)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2,4-Dinitrotoluene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2,6-Dinitrotoluene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2-Chloronaphthalene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2-Chlorophenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2-Methylnaphthalene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2-Methylphenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
2-Nitrophenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
3,3´-Dichlorobenzidine	ND (0.751)		8270D		1	09/23/13 20:52	CWI0284	CI32312
3+4-Methylphenol	ND (0.751)		8270D		1	09/23/13 20:52	CWI0284	CI32312
4-Bromophenyl-phenylether	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
4-Chloroaniline	ND (0.751)		8270D		1	09/23/13 20:52	CWI0284	CI32312
4-Nitrophenol	ND (1.88)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Acenaphthene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Acenaphthylene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Acetophenone	ND (0.751)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Aniline	ND (1.88)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Anthracene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Azobenzene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Benzo(a)anthracene	**0.787** (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Benzo(a)pyrene	**0.846** (0.188)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Benzo(b)fluoranthene	**0.751** (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Benzo(g,h,i)perylene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Benzo(k)fluoranthene	**0.435** (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
bis(2-Chloroethoxy)methane	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
bis(2-Chloroethyl)ether	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
bis(2-chloroisopropyl)Ether	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
bis(2-Ethylhexyl)phthalate	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Butylbenzylphthalate	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Chrysene	**0.879** (0.188)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Dibenzo(a,h)Anthracene	ND (0.188)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Dibenzofuran	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Diethylphthalate	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Dimethylphthalate	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Di-n-butylphthalate	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Di-n-octylphthalate	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Fluoranthene	**0.996** (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Fluorene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Hexachlorobenzene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Hexachlorobutadiene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Hexachloroethane	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Indeno(1,2,3-cd)Pyrene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Isophorone	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Naphthalene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Nitrobenzene	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
N-Nitrosodimethylamine	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Pentachlorophenol	ND (1.88)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Phenanthrene	**0.543** (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Phenol	ND (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312
Pyrene	**1.01** (0.375)		8270D		1	09/23/13 20:52	CWI0284	CI32312

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
		%Recovery	Qualifier	Limits				
Surrogate: 1,2-Dichlorobenzene-d4		*75 %*		*30-130*				
Surrogate: 2,4,6-Tribromophenol		*123 %*		*30-130*				
Surrogate: 2-Chlorophenol-d4		*79 %*		*30-130*				
Surrogate: 2-Fluorobiphenyl		*90 %*		*30-130*				
Surrogate: 2-Fluorophenol		*75 %*		*30-130*				
Surrogate: Nitrobenzene-d5		*66 %*		*30-130*				
Surrogate: Phenol-d6		*78 %*		*30-130*				
Surrogate: p-Terphenyl-d14		*94 %*		*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54A
Date Sampled: 09/20/13 12:15
Percent Solids: 91

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-01
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**5.54** (N/A)		9045		1	JLK	09/20/13 17:41	S.U.	CI32044
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 20.9 ºC.**								
Flashpoint	**> 200** (N/A)		1010		1	JLK	09/25/13 10:35	°F	CI32516
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	09/23/13 10:30	mg/kg	CI32316
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	09/23/13 10:30	mg/kg	CI32316

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54B
Date Sampled: 09/20/13 12:15
Percent Solids: 89
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0586)		8082A		1	09/30/13 17:44		CI32607
Aroclor 1221	ND (0.0586)		8082A		1	09/30/13 17:44		CI32607
Aroclor 1232	ND (0.0586)		8082A		1	09/30/13 17:44		CI32607
Aroclor 1242	ND (0.0586)		8082A		1	09/30/13 17:44		CI32607
Aroclor 1248	**3.21** (0.586)		8082A		10	10/01/13 21:15		CI32607
Aroclor 1254	**6.60** (0.586)		8082A		10	10/01/13 21:15		CI32607
Aroclor 1260	ND (0.0586)		8082A		1	09/30/13 17:44		CI32607
Aroclor 1262	ND (0.0586)		8082A		1	09/30/13 17:44		CI32607
Aroclor 1268	ND (0.0586)		8082A		1	09/30/13 17:44		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*111 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 56A
Date Sampled: 09/20/13 12:10
Percent Solids: 79
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0656)		8082A		1	09/30/13 22:12		CI32607
Aroclor 1221	ND (0.0656)		8082A		1	09/30/13 22:12		CI32607
Aroclor 1232	ND (0.0656)		8082A		1	09/30/13 22:12		CI32607
Aroclor 1242	ND (0.0656)		8082A		1	09/30/13 22:12		CI32607
Aroclor 1248	**1.86** (0.328)		8082A		5	10/01/13 14:52		CI32607
Aroclor 1254	**3.72** (0.328)		8082A		5	10/01/13 14:52		CI32607
Aroclor 1260	ND (0.0656)		8082A		1	09/30/13 22:12		CI32607
Aroclor 1262	ND (0.0656)		8082A		1	09/30/13 22:12		CI32607
Aroclor 1268	ND (0.0656)		8082A		1	09/30/13 22:12		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*113 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*113 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 56B
Date Sampled: 09/20/13 12:10
Percent Solids: 89
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1221	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1232	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1242	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1248	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1254	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1260	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1262	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607
Aroclor 1268	ND (0.0555)		8082A		1	10/01/13 14:13		CI32607

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*113 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*105 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*108 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 57A
Date Sampled: 09/20/13 12:05
Percent Solids: 88
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1221	ND (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1232	ND (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1242	ND (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1248	**0.243** (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1254	**0.444** (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1260	ND (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1262	ND (0.0544)		8082A		1	09/30/13 22:49		CI32607
Aroclor 1268	ND (0.0544)		8082A		1	09/30/13 22:49		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 57B
Date Sampled: 09/20/13 12:05
Percent Solids: 87
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1221	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1232	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1242	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1248	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1254	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1260	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1262	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607
Aroclor 1268	ND (0.0594)		8082A		1	10/01/13 1:02		CI32607

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*93 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 58A
Date Sampled: 09/20/13 12:00
Percent Solids: 88
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1221	ND (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1232	ND (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1242	ND (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1248	**0.276** (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1254	**0.731** (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1260	ND (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1262	ND (0.0574)		8082A		1	09/30/13 8:06		CI32607
Aroclor 1268	ND (0.0574)		8082A		1	09/30/13 8:06		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*105 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 58B
Date Sampled: 09/20/13 12:00
Percent Solids: 85
Initial Volume: 20.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1221	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1232	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1242	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1248	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1254	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1260	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1262	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607
Aroclor 1268	ND (0.0571)		8082A		1	09/30/13 8:25		CI32607

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 59A
Date Sampled: 09/20/13 11:55
Percent Solids: 88
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1221	ND (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1232	ND (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1242	ND (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1248	**0.364** (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1254	**0.642** (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1260	ND (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1262	ND (0.0575)		8082A		1	10/01/13 1:59		CI32607
Aroclor 1268	ND (0.0575)		8082A		1	10/01/13 1:59		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*190 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*108 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 59B
Date Sampled: 09/20/13 11:55
Percent Solids: 90
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1221	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1232	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1242	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1248	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1254	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1260	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1262	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607
Aroclor 1268	ND (0.0552)		8082A		1	10/01/13 2:18		CI32607

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*128 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 60A
Date Sampled: 09/20/13 11:50
Percent Solids: 86
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1221	ND (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1232	ND (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1242	ND (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1248	**0.177** (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1254	**0.329** (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1260	ND (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1262	ND (0.0599)		8082A		1	10/01/13 2:37		CI32607
Aroclor 1268	ND (0.0599)		8082A		1	10/01/13 2:37		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*195 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*91 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 60B
Date Sampled: 09/20/13 11:50
Percent Solids: 89
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1221	ND (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1232	ND (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1242	ND (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1248	**0.0894** (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1254	**0.158** (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1260	ND (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1262	ND (0.0583)		8082A		1	10/01/13 2:56		CI32607
Aroclor 1268	ND (0.0583)		8082A		1	10/01/13 2:56		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*112 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*171 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*111 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 61A
Date Sampled: 09/20/13 11:45
Percent Solids: 87
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1221	ND (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1232	ND (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1242	ND (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1248	**0.125** (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1254	**0.256** (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1260	ND (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1262	ND (0.0580)		8082A		1	10/01/13 3:14		CI32607
Aroclor 1268	ND (0.0580)		8082A		1	10/01/13 3:14		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*71 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*66 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 61B
Date Sampled: 09/20/13 11:45
Percent Solids: 91
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1221	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1232	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1242	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1248	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1254	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1260	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1262	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607
Aroclor 1268	ND (0.0556)		8082A		1	10/01/13 3:33		CI32607

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 62A
Date Sampled: 09/20/13 11:40
Percent Solids: 79
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1221	ND (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1232	ND (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1242	ND (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1248	**0.396** (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1254	**0.673** (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1260	ND (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1262	ND (0.0643)		8082A		1	10/01/13 3:52		CI32607
Aroclor 1268	ND (0.0643)		8082A		1	10/01/13 3:52		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*87 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 321A
Date Sampled: 09/20/13 09:10
Percent Solids: 87
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1221	ND (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1232	ND (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1242	ND (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1248	**0.148** (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1254	**0.287** (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1260	ND (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1262	ND (0.0593)		8082A		1	10/01/13 4:49		CI32709
Aroclor 1268	ND (0.0593)		8082A		1	10/01/13 4:49		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 322A
Date Sampled: 09/20/13 09:50
Percent Solids: 91
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1221	ND (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1232	ND (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1242	ND (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1248	**0.358** (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1254	**0.590** (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1260	ND (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1262	ND (0.0554)		8082A		1	10/01/13 5:08		CI32709
Aroclor 1268	ND (0.0554)		8082A		1	10/01/13 5:08		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 323A
Date Sampled: 09/20/13 10:20
Percent Solids: 91
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0558)		8082A		1	10/01/13 5:26		CI32709
Aroclor 1221	ND (0.0558)		8082A		1	10/01/13 5:26		CI32709
Aroclor 1232	ND (0.0558)		8082A		1	10/01/13 5:26		CI32709
Aroclor 1242	ND (0.0558)		8082A		1	10/01/13 5:26		CI32709
Aroclor 1248	**1.04** (0.0558)		8082A		1	10/01/13 5:26		CI32709
Aroclor 1254	**2.62** (0.279)		8082A		5	10/01/13 21:34		CI32709
Aroclor 1260	ND (0.0558)		8082A		1	10/01/13 5:26		CI32709
Aroclor 1262	ND (0.0558)		8082A		1	10/01/13 5:26		CI32709
Aroclor 1268	ND (0.0558)		8082A		1	10/01/13 5:26		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*103 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*99 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 324A
Date Sampled: 09/20/13 10:45
Percent Solids: 91
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0563)		8082A		1	10/01/13 5:45		CI32709
Aroclor 1221	ND (0.0563)		8082A		1	10/01/13 5:45		CI32709
Aroclor 1232	ND (0.0563)		8082A		1	10/01/13 5:45		CI32709
Aroclor 1242	ND (0.0563)		8082A		1	10/01/13 5:45		CI32709
Aroclor 1248	**1.93** (0.282)		8082A		5	10/01/13 21:53		CI32709
Aroclor 1254	**4.23** (0.282)		8082A		5	10/01/13 21:53		CI32709
Aroclor 1260	ND (0.0563)		8082A		1	10/01/13 5:45		CI32709
Aroclor 1262	ND (0.0563)		8082A		1	10/01/13 5:45		CI32709
Aroclor 1268	ND (0.0563)		8082A		1	10/01/13 5:45		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 325A
Date Sampled: 09/20/13 11:05
Percent Solids: 90
Initial Volume: 20
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/24/13 18:06

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
4,4´-DDE [2C]	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
4,4´-DDT	**E, PI 0.0698** (0.0028)		8081B		1	09/27/13 18:51		CI32422
Aldrin [2C]	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
alpha-BHC [2C]	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
alpha-Chlordane [2C]	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
beta-BHC	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Chlordane (Total)	ND (0.0221)		8081B		1	09/27/13 18:51		CI32422
delta-BHC	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Dieldrin [2C]	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Endosulfan I [2C]	**PI 0.0174** (0.0028)		8081B		1	09/27/13 18:51		CI32422
Endosulfan II	**PI 0.0179** (0.0028)		8081B		1	09/27/13 18:51		CI32422
Endosulfan Sulfate	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Endrin [2C]	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Endrin Ketone	**PI 0.0134** (0.0028)		8081B		1	09/27/13 18:51		CI32422
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	09/27/13 18:51		CI32422
gamma-Chlordane	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Heptachlor [2C]	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Heptachlor Epoxide	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Hexachlorobenzene	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Methoxychlor	ND (0.0028)		8081B		1	09/27/13 18:51		CI32422
Toxaphene	ND (0.138)		8081B		1	09/27/13 18:51		CI32422
Toxaphene [2C]	ND (0.138)		8081B		1	09/27/13 18:51		CI32422

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*60 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*346 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 325A
Date Sampled: 09/20/13 11:05
Percent Solids: 90
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/27/13 17:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0559)		8082A		1	10/01/13 6:04		CI32709
Aroclor 1221	ND (0.0559)		8082A		1	10/01/13 6:04		CI32709
Aroclor 1232	ND (0.0559)		8082A		1	10/01/13 6:04		CI32709
Aroclor 1242	ND (0.0559)		8082A		1	10/01/13 6:04		CI32709
Aroclor 1248	**3.98** (0.559)		8082A		10	10/01/13 22:13		CI32709
Aroclor 1254	**10.1** (0.559)		8082A		10	10/01/13 22:13		CI32709
Aroclor 1260	ND (0.0559)		8082A		1	10/01/13 6:04		CI32709
Aroclor 1262	ND (0.0559)		8082A		1	10/01/13 6:04		CI32709
Aroclor 1268	ND (0.0559)		8082A		1	10/01/13 6:04		CI32709

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*136 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*103 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 325A
Date Sampled: 09/20/13 11:05
Percent Solids: 90
Initial Volume: 10
Final Volume: 4
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 9/23/13 15:00

8151A Chlorinated Herbicides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2,4,5-T	ND (0.009)		8151A		1	09/25/13 3:03	CWI0317	CI32326
2,4,5-TP (Silvex)	ND (0.009)		8151A		1	09/25/13 3:03	CWI0317	CI32326
2,4-D	ND (0.042)		8151A		1	09/25/13 3:03	CWI0317	CI32326
2,4-DB	ND (0.043)		8151A		1	09/25/13 3:03	CWI0317	CI32326
Dalapon	ND (0.041)		8151A		1	09/25/13 3:03	CWI0317	CI32326
Dicamba	ND (0.008)		8151A		1	09/25/13 3:03	CWI0317	CI32326
Dichlorprop	ND (0.042)		8151A		1	09/25/13 3:03	CWI0317	CI32326
Dinoseb	ND (0.043)		8151A		1	09/25/13 3:03	CWI0317	CI32326
MCPA	ND (2.10)		8151A		1	09/25/13 3:03	CWI0317	CI32326
MCPP	ND (2.12)		8151A		1	09/25/13 3:03	CWI0317	CI32326

	%Recovery	*Qualifier*	*Limits*
Surrogate: DCAA	*119 %*		*30-150*
Surrogate: DCAA [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 325A
Date Sampled: 09/20/13 11:05
Percent Solids: 90
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
1,2,4-Trichlorobenzene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
1,2-Dichlorobenzene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
1,3-Dichlorobenzene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
1,4-Dichlorobenzene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2,4,5-Trichlorophenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2,4,6-Trichlorophenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2,4-Dichlorophenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2,4-Dimethylphenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2,4-Dinitrophenol	ND (1.89)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2,4-Dinitrotoluene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2,6-Dinitrotoluene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2-Chloronaphthalene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2-Chlorophenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2-Methylnaphthalene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2-Methylphenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
2-Nitrophenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
3,3´-Dichlorobenzidine	ND (0.753)		8270D		1	09/23/13 21:26	CWI0284	CI32312
3+4-Methylphenol	ND (0.753)		8270D		1	09/23/13 21:26	CWI0284	CI32312
4-Bromophenyl-phenylether	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
4-Chloroaniline	ND (0.753)		8270D		1	09/23/13 21:26	CWI0284	CI32312
4-Nitrophenol	ND (1.89)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Acenaphthene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Acenaphthylene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Acetophenone	ND (0.753)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Aniline	ND (1.89)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Anthracene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Azobenzene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Benzo(a)anthracene	**1.21** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Benzo(a)pyrene	**1.39** (0.189)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Benzo(b)fluoranthene	**1.31** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 325A
Date Sampled: 09/20/13 11:05
Percent Solids: 90
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Benzo(g,h,i)perylene	**0.511** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Benzo(k)fluoranthene	**0.586** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
bis(2-Chloroethoxy)methane	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
bis(2-Chloroethyl)ether	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
bis(2-chloroisopropyl)Ether	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
bis(2-Ethylhexyl)phthalate	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Butylbenzylphthalate	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Chrysene	**1.52** (0.189)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Dibenzo(a,h)Anthracene	ND (0.189)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Dibenzofuran	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Diethylphthalate	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Dimethylphthalate	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Di-n-butylphthalate	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Di-n-octylphthalate	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Fluoranthene	**1.63** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Fluorene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Hexachlorobenzene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Hexachlorobutadiene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Hexachloroethane	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Indeno(1,2,3-cd)Pyrene	**0.492** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Isophorone	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Naphthalene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Nitrobenzene	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
N-Nitrosodimethylamine	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Pentachlorophenol	ND (1.89)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Phenanthrene	**0.953** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Phenol	ND (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312
Pyrene	**1.66** (0.376)		8270D		1	09/23/13 21:26	CWI0284	CI32312

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 325A
Date Sampled: 09/20/13 11:05
Percent Solids: 90
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
		%Recovery	Qualifier	Limits				
Surrogate: 1,2-Dichlorobenzene-d4		*72 %*		*30-130*				
Surrogate: 2,4,6-Tribromophenol		*112 %*		*30-130*				
Surrogate: 2-Chlorophenol-d4		*77 %*		*30-130*				
Surrogate: 2-Fluorobiphenyl		*81 %*		*30-130*				
Surrogate: 2-Fluorophenol		*71 %*		*30-130*				
Surrogate: Nitrobenzene-d5		*66 %*		*30-130*				
Surrogate: Phenol-d6		*75 %*		*30-130*				
Surrogate: p-Terphenyl-d14		*85 %*		*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 325A
Date Sampled: 09/20/13 11:05
Percent Solids: 90

ESS Laboratory Work Order: 1309445
ESS Laboratory Sample ID: 1309445-20
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**5.52** (N/A)		9045		1	JLK	09/20/13 17:41	S.U.	CI32044
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 20.8 ºC.**								
Flashpoint	**> 200** (N/A)		1010		1	JLK	09/25/13 10:35	°F	CI32516
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	09/23/13 10:30	mg/kg	CI32316
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	09/23/13 10:30	mg/kg	CI32316

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0483*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0466*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0462*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Toluene-d8	*0.0451*		mg/kg wet	*0.05000*		*90*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130			
1,1,1-Trichloroethane	0.0534	0.0050	mg/kg wet	0.05000		107	70-130			
1,1,2,2-Tetrachloroethane	0.0503	0.0020	mg/kg wet	0.05000		101	70-130			
1,1,2-Trichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
1,1-Dichloroethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
1,1-Dichloroethene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
1,1-Dichloropropene	0.0560	0.0050	mg/kg wet	0.05000		112	70-130			
1,2,3-Trichlorobenzene	0.0552	0.0050	mg/kg wet	0.05000		110	70-130			
1,2,3-Trichloropropane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
1,2,4-Trichlorobenzene	0.0556	0.0050	mg/kg wet	0.05000		111	70-130			
1,2,4-Trimethylbenzene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
1,2-Dibromo-3-Chloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dibromoethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
1,2-Dichlorobenzene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
1,2-Dichloroethane	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
1,2-Dichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,3,5-Trimethylbenzene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
1,3-Dichlorobenzene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,3-Dichloropropane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130			
1,4-Dichlorobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
1,4-Dioxane	1.02	0.100	mg/kg wet	1.000		102	70-130			
2,2-Dichloropropane	0.0558	0.0050	mg/kg wet	0.05000		112	70-130			
2-Butanone	0.300	0.0100	mg/kg wet	0.2500		120	70-130			
2-Chlorotoluene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
2-Hexanone	0.288	0.0100	mg/kg wet	0.2500		115	70-130			
4-Chlorotoluene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
4-Isopropyltoluene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
4-Methyl-2-Pentanone	0.276	0.0100	mg/kg wet	0.2500		110	70-130			
Acetone	0.246	0.0100	mg/kg wet	0.2500		99	70-130			
Benzene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
Bromobenzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Bromochloromethane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
Bromodichloromethane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
Bromoform	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Bromomethane	0.0477	0.0100	mg/kg wet	0.05000		95	70-130			
Carbon Disulfide	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Carbon Tetrachloride	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Chlorobenzene	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
Chloroethane	0.0490	0.0100	mg/kg wet	0.05000		98	70-130			
Chloroform	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Chloromethane	0.0535	0.0100	mg/kg wet	0.05000		107	70-130			
cis-1,2-Dichloroethene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
cis-1,3-Dichloropropene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
Dibromochloromethane	0.0584	0.0020	mg/kg wet	0.05000		117	70-130			
Dibromomethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
Dichlorodifluoromethane	0.0454	0.0100	mg/kg wet	0.05000		91	70-130			
Diethyl Ether	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
Di-isopropyl ether	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
Ethyl tertiary-butyl ether	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
Ethylbenzene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Hexachlorobutadiene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Isopropylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Methyl tert-Butyl Ether	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
Methylene Chloride	0.0527	0.0100	mg/kg wet	0.05000		105	70-130			
Naphthalene	0.0547	0.0050	mg/kg wet	0.05000		109	70-130			
n-Butylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
n-Propylbenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
sec-Butylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Styrene	0.0574	0.0050	mg/kg wet	0.05000		115	70-130			
tert-Butylbenzene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Tertiary-amyl methyl ether	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Tetrachloroethene	0.0427	0.0050	mg/kg wet	0.05000		85	70-130			
Tetrahydrofuran	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
Toluene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
trans-1,2-Dichloroethene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
trans-1,3-Dichloropropene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Trichloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Trichlorofluoromethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Vinyl Chloride	0.0588	0.0100	mg/kg wet	0.05000		118	70-130			
Xylene O	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
Xylene P,M	0.113	0.0100	mg/kg wet	0.1000		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0499*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0498*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Toluene-d8	*0.0479*		mg/kg wet	*0.05000*		*96*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	1	25	
1,1,1-Trichloroethane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
1,1,2,2-Tetrachloroethane	0.0500	0.0020	mg/kg wet	0.05000		100	70-130	0.7	25	
1,1,2-Trichloroethane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	0.3	25	
1,1-Dichloroethane	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	0.9	25	
1,1-Dichloroethene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	2	25	
1,1-Dichloropropene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130	1	25	
1,2,3-Trichlorobenzene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130	0.7	25	
1,2,3-Trichloropropane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
1,2,4-Trichlorobenzene	0.0549	0.0050	mg/kg wet	0.05000		110	70-130	1	25	
1,2,4-Trimethylbenzene	0.0547	0.0050	mg/kg wet	0.05000		109	70-130	1	25	
1,2-Dibromo-3-Chloropropane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	4	25	
1,2-Dibromoethane	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
1,2-Dichlorobenzene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130	0.04	25	
1,2-Dichloroethane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	0.2	25	
1,2-Dichloropropane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	0.8	25	
1,3,5-Trimethylbenzene	0.0561	0.0050	mg/kg wet	0.05000		112	70-130	2	25	
1,3-Dichlorobenzene	0.0544	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
1,3-Dichloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130	1	25	
1,4-Dichlorobenzene	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
1,4-Dioxane	0.985	0.100	mg/kg wet	1.000		98	70-130	4	20	
2,2-Dichloropropane	0.0560	0.0050	mg/kg wet	0.05000		112	70-130	0.5	25	
2-Butanone	0.294	0.0100	mg/kg wet	0.2500		117	70-130	2	25	
2-Chlorotoluene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	2	25	
2-Hexanone	0.279	0.0100	mg/kg wet	0.2500		112	70-130	3	25	
4-Chlorotoluene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	2	25	
4-Isopropyltoluene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130	2	25	

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
4-Methyl-2-Pentanone	0.267	0.0100	mg/kg wet	0.2500		107	70-130	4	25	
Acetone	0.239	0.0100	mg/kg wet	0.2500		96	70-130	3	25	
Benzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
Bromobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	0.8	25	
Bromochloromethane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
Bromodichloromethane	0.0556	0.0050	mg/kg wet	0.05000		111	70-130	3	25	
Bromoform	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	0.6	25	
Bromomethane	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	3	25	
Carbon Disulfide	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Carbon Tetrachloride	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	0.2	25	
Chlorobenzene	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	2	25	
Chloroethane	0.0501	0.0100	mg/kg wet	0.05000		100	70-130	2	25	
Chloroform	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
Chloromethane	0.0548	0.0100	mg/kg wet	0.05000		110	70-130	2	25	
cis-1,2-Dichloroethene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	2	25	
cis-1,3-Dichloropropene	0.0572	0.0050	mg/kg wet	0.05000		114	70-130	1	25	
Dibromochloromethane	0.0587	0.0020	mg/kg wet	0.05000		117	70-130	0.5	25	
Dibromomethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	2	25	
Dichlorodifluoromethane	0.0465	0.0100	mg/kg wet	0.05000		93	70-130	2	25	
Diethyl Ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	1	25	
Di-isopropyl ether	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	0.1	25	
Ethyl tertiary-butyl ether	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	0.3	25	
Ethylbenzene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130	2	25	
Hexachlorobutadiene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	0.7	25	
Isopropylbenzene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
Methyl tert-Butyl Ether	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
Methylene Chloride	0.0528	0.0100	mg/kg wet	0.05000		106	70-130	0.2	25	
Naphthalene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
n-Butylbenzene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130	2	25	
n-Propylbenzene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
sec-Butylbenzene	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	2	25	
Styrene	0.0586	0.0050	mg/kg wet	0.05000		117	70-130	2	25	
tert-Butylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	3	25	
Tertiary-amyl methyl ether	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	0.5	25	
Tetrachloroethene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
Tetrahydrofuran	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Toluene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130	2	25	
trans-1,2-Dichloroethene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	0.6	25	
trans-1,3-Dichloropropene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
Trichloroethene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
Trichlorofluoromethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
Vinyl Chloride	0.0618	0.0100	mg/kg wet	0.05000		124	70-130	5	25	
Xylene O	0.0585	0.0050	mg/kg wet	0.05000		117	70-130	3	25	
Xylene P,M	0.115	0.0100	mg/kg wet	0.1000		115	70-130	2	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0497*		mg/kg wet	*0.05000*		*99*	*70-130*			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Surrogate: 4-Bromofluorobenzene	*0.0497*		mg/kg wet	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Toluene-d8	*0.0485*		mg/kg wet	*0.05000*		*97*	*70-130*			
8081A Organochlorine Pesticides										
Batch CI32422 - 3546										
Blank										
4,4´-DDD	ND	0.0025	mg/kg wet							
4,4´-DDD [2C]	ND	0.0025	mg/kg wet							
4,4´-DDE	ND	0.0025	mg/kg wet							
4,4´-DDE [2C]	ND	0.0025	mg/kg wet							
4,4´-DDT	ND	0.0025	mg/kg wet							
4,4´-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
Chlordane (Total)	ND	0.0200	mg/kg wet							
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CI32422 - 3546										
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							
Toxaphene	ND	0.125	mg/kg wet							
Toxaphene [2C]	ND	0.125	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0125*		mg/kg wet	*0.01250*		*100*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0128*		mg/kg wet	*0.01250*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0118*		mg/kg wet	*0.01250*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0122*		mg/kg wet	*0.01250*		*98*	*30-150*			
LCS										
4,4´-DDD	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
4,4´-DDD [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
4,4´-DDE	0.0121	0.0025	mg/kg wet	0.01250		96	40-140			
4,4´-DDE [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
4,4´-DDT	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
4,4´-DDT [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Aldrin	0.0119	0.0025	mg/kg wet	0.01250		96	40-140			
Aldrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
alpha-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
alpha-BHC [2C]	0.0112	0.0025	mg/kg wet	0.01250		89	40-140			
alpha-Chlordane	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
alpha-Chlordane [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
beta-BHC	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
beta-BHC [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet				0-200			
delta-BHC	0.0113	0.0025	mg/kg wet	0.01250		90	40-140			
delta-BHC [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
Dieldrin	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Dieldrin [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endosulfan I	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endosulfan I [2C]	0.0122	0.0025	mg/kg wet	0.01250		97	40-140			
Endosulfan II	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Endosulfan II [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Endosulfan Sulfate	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Endosulfan Sulfate [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
Endrin	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
Endrin [2C]	0.0138	0.0025	mg/kg wet	0.01250		111	40-140			
Endrin Ketone	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
Endrin Ketone [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
gamma-BHC (Lindane)	0.0119	0.0015	mg/kg wet	0.01250		95	40-140			
gamma-BHC (Lindane) [2C]	0.0122	0.0015	mg/kg wet	0.01250		97	40-140			
gamma-Chlordane	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			

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Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CI32422 - 3546										
gamma-Chlordane [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Heptachlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Heptachlor [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Heptachlor Epoxide	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Heptachlor Epoxide [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Hexachlorobenzene	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
Hexachlorobenzene [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Methoxychlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Methoxychlor [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Surrogate: Decachlorobiphenyl	*0.0125*		mg/kg wet	*0.01250*		*100*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0129*		mg/kg wet	*0.01250*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0108*		mg/kg wet	*0.01250*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0117*		mg/kg wet	*0.01250*		*94*	*30-150*			
LCS Dup										
4,4´-DDD	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	0.6	30	
4,4´-DDD [2C]	0.0126	0.0025	mg/kg wet	0.01250		100	40-140	2	30	
4,4´-DDE	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	0.2	30	
4,4´-DDE [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	2	30	
4,4´-DDT	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	0.07	30	
4,4´-DDT [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	2	30	
Aldrin	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	0.7	30	
Aldrin [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	3	30	
alpha-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	0.06	30	
alpha-BHC [2C]	0.0113	0.0025	mg/kg wet	0.01250		91	40-140	1	30	
alpha-Chlordane	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	0.8	30	
alpha-Chlordane [2C]	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	2	30	
beta-BHC	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	0.02	30	
beta-BHC [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	3	30	
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet				0-200		200	
delta-BHC	0.0112	0.0025	mg/kg wet	0.01250		89	40-140	0.6	30	
delta-BHC [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	1	30	
Dieldrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	0.8	30	
Dieldrin [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	3	30	
Endosulfan I	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	1	30	
Endosulfan I [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	2	30	
Endosulfan II	0.0118	0.0025	mg/kg wet	0.01250		95	40-140	0.6	30	
Endosulfan II [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
Endosulfan Sulfate	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	0.5	30	
Endosulfan Sulfate [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140	3	30	
Endrin	0.0136	0.0025	mg/kg wet	0.01250		108	40-140	0.4	30	
Endrin [2C]	0.0142	0.0025	mg/kg wet	0.01250		114	40-140	3	30	
Endrin Ketone	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	0.6	30	
Endrin Ketone [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
gamma-BHC (Lindane)	0.0119	0.0015	mg/kg wet	0.01250		95	40-140	0.3	30	

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CI32422 - 3546										
gamma-BHC (Lindane) [2C]	0.0123	0.0015	mg/kg wet	0.01250		99	40-140	1	30	
gamma-Chlordane	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	0.8	30	
gamma-Chlordane [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
Heptachlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	0.6	30	
Heptachlor [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	3	30	
Heptachlor Epoxide	0.0118	0.0025	mg/kg wet	0.01250		95	40-140	0.5	30	
Heptachlor Epoxide [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	2	30	
Hexachlorobenzene	0.0111	0.0025	mg/kg wet	0.01250		89	40-140	2	30	
Hexachlorobenzene [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140	3	30	
Methoxychlor	0.0114	0.0025	mg/kg wet	0.01250		91	40-140	0.9	30	
Methoxychlor [2C]	0.0121	0.0025	mg/kg wet	0.01250		96	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0120*		mg/kg wet	*0.01250*		*96*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0127*		mg/kg wet	*0.01250*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0114*		mg/kg wet	*0.01250*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0116*		mg/kg wet	*0.01250*		*93*	*30-150*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32607 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32607 - 3540										
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32607 - 3540										
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0260*		mg/kg wet	*0.02500*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0251*		mg/kg wet	*0.02500*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0208*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0253*		mg/kg wet	*0.02500*		*101*	*30-150*			
LCS										
Aroclor 1016	0.461	0.0500	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.478	0.0500	mg/kg wet	0.5000		96	40-140			
Surrogate: Decachlorobiphenyl	*0.0258*		mg/kg wet	*0.02500*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0239*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0239*		mg/kg wet	*0.02500*		*96*	*30-150*			
LCS Dup										
Aroclor 1016	0.489	0.0500	mg/kg wet	0.5000		98	40-140	6	30	
Aroclor 1260	0.511	0.0500	mg/kg wet	0.5000		102	40-140	7	30	

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32607 - 3540										
Surrogate: Decachlorobiphenyl	*0.0269*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0249*		mg/kg wet	*0.02500*		*100*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0257*		mg/kg wet	*0.02500*		*103*	*30-150*			
Batch CI32709 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32709 - 3540										
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32709 - 3540										
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0219*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0204*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0190*		mg/kg wet	*0.02500*		*76*	*30-150*			
LCS										
Aroclor 1016	0.512	0.0500	mg/kg wet	0.5000		102	40-140			
Aroclor 1260	0.485	0.0500	mg/kg wet	0.5000		97	40-140			
Surrogate: Decachlorobiphenyl	*0.0235*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0224*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0193*		mg/kg wet	*0.02500*		*77*	*30-150*			
LCS Dup										
Aroclor 1016	0.525	0.0500	mg/kg wet	0.5000		105	40-140	2	30	
Aroclor 1260	0.500	0.0500	mg/kg wet	0.5000		100	40-140	3	30	
Surrogate: Decachlorobiphenyl	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0195*		mg/kg wet	*0.02500*		*78*	*30-150*			
Batch CI33009 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33009 - 3540										
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33009 - 3540										
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI33009 - 3540										
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0195*		mg/kg wet	*0.02500*		*78*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0186*		mg/kg wet	*0.02500*		*74*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0196*		mg/kg wet	*0.02500*		*78*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0184*		mg/kg wet	*0.02500*		*73*	*30-150*			
LCS										
Aroclor 1016	0.474	0.0500	mg/kg wet	0.5000		95	40-140			
Aroclor 1260	0.431	0.0500	mg/kg wet	0.5000		86	40-140			
Surrogate: Decachlorobiphenyl	*0.0207*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0197*		mg/kg wet	*0.02500*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0207*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0182*		mg/kg wet	*0.02500*		*73*	*30-150*			
LCS Dup										
Aroclor 1016	0.504	0.0500	mg/kg wet	0.5000		101	40-140	6	30	
Aroclor 1260	0.474	0.0500	mg/kg wet	0.5000		95	40-140	10	30	
Surrogate: Decachlorobiphenyl	*0.0219*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0210*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0185*		mg/kg wet	*0.02500*		*74*	*30-150*			
8151A Chlorinated Herbicides										
Batch CI32326 - 3546										
Blank										
2,4,5-T	ND	0.010	mg/kg dry							
2,4,5-T [2C]	ND	0.010	mg/kg dry							
2,4,5-TP (Silvex)	ND	0.010	mg/kg dry							
2,4,5-TP (Silvex) [2C]	ND	0.010	mg/kg dry							
2,4-D	ND	0.047	mg/kg dry							
2,4-D [2C]	ND	0.047	mg/kg dry							
2,4-DB	ND	0.048	mg/kg dry							
2,4-DB [2C]	ND	0.048	mg/kg dry							
Dalapon	ND	0.046	mg/kg dry							
Dalapon [2C]	ND	0.046	mg/kg dry							
Dicamba	ND	0.009	mg/kg dry							
Dicamba [2C]	ND	0.009	mg/kg dry							
Dichlorprop	ND	0.047	mg/kg dry							
Dichlorprop [2C]	ND	0.047	mg/kg dry							
Dinoseb	ND	0.048	mg/kg dry							
Dinoseb [2C]	ND	0.048	mg/kg dry							
MCPA	ND	2.32	mg/kg dry							

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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8151A Chlorinated Herbicides										
Batch CI32326 - 3546										
MCPA [2C]	ND	2.32	mg/kg dry							
MCPP	ND	2.35	mg/kg dry							
MCPP [2C]	ND	2.35	mg/kg dry							
Surrogate: DCAA	*21.2*		mg/kg dry	*20.00*		*106*	*30-150*			
Surrogate: DCAA [2C]	*17.3*		mg/kg dry	*20.00*		*86*	*30-150*			
LCS										
2,4,5-T	0.014	0.010	mg/kg dry	0.01900		76	40-140			
2,4,5-T [2C]	0.014	0.010	mg/kg dry	0.01900		76	40-140			
2,4,5-TP (Silvex)	0.014	0.010	mg/kg dry	0.01900		72	40-140			
2,4,5-TP (Silvex) [2C]	0.014	0.010	mg/kg dry	0.01900		74	40-140			
2,4-D	0.140	0.047	mg/kg dry	0.1880		75	40-140			
2,4-D [2C]	0.143	0.047	mg/kg dry	0.1880		76	40-140			
2,4-DB	0.174	0.048	mg/kg dry	0.1900		92	40-140			
2,4-DB [2C]	0.145	0.048	mg/kg dry	0.1900		76	40-140			
Dalapon	0.208	0.046	mg/kg dry	0.4550		46	40-140			
Dalapon [2C]	0.215	0.046	mg/kg dry	0.4550		47	40-140			
Dicamba	0.015	0.009	mg/kg dry	0.01880		78	40-140			
Dicamba [2C]	0.014	0.009	mg/kg dry	0.01880		76	40-140			
Dichlorprop	0.184	0.047	mg/kg dry	0.1880		98	40-140			
Dichlorprop [2C]	0.171	0.047	mg/kg dry	0.1880		91	40-140			
Dinoseb	0.027	0.048	mg/kg dry	0.09500		29	10-100			
Dinoseb [2C]	0.024	0.048	mg/kg dry	0.09500		26	10-100			
MCPA	16.3	2.32	mg/kg dry	18.60		88	40-140			
MCPA [2C]	12.9	2.32	mg/kg dry	18.60		70	40-140			
MCPP	17.6	2.35	mg/kg dry	18.80		94	40-140			
MCPP [2C]	14.6	2.35	mg/kg dry	18.80		78	40-140			
Surrogate: DCAA	*22.8*		mg/kg dry	*20.00*		*114*	*30-150*			
Surrogate: DCAA [2C]	*18.0*		mg/kg dry	*20.00*		*90*	*30-150*			
LCS Dup										
2,4,5-T	0.015	0.010	mg/kg dry	0.01900		80	40-140	5	30	
2,4,5-T [2C]	0.015	0.010	mg/kg dry	0.01900		80	40-140	5	30	
2,4,5-TP (Silvex)	0.015	0.010	mg/kg dry	0.01900		78	40-140	8	30	
2,4,5-TP (Silvex) [2C]	0.015	0.010	mg/kg dry	0.01900		78	40-140	5	30	
2,4-D	0.149	0.047	mg/kg dry	0.1880		79	40-140	6	30	
2,4-D [2C]	0.147	0.047	mg/kg dry	0.1880		78	40-140	3	30	
2,4-DB	0.194	0.048	mg/kg dry	0.1900		102	40-140	11	30	
2,4-DB [2C]	0.150	0.048	mg/kg dry	0.1900		79	40-140	4	30	
Dalapon	0.228	0.046	mg/kg dry	0.4550		50	40-140	9	30	
Dalapon [2C]	0.238	0.046	mg/kg dry	0.4550		52	40-140	10	30	
Dicamba	0.014	0.009	mg/kg dry	0.01880		72	40-140	8	30	
Dicamba [2C]	0.014	0.009	mg/kg dry	0.01880		76	40-140	0	30	
Dichlorprop	0.196	0.047	mg/kg dry	0.1880		104	40-140	6	30	
Dichlorprop [2C]	0.178	0.047	mg/kg dry	0.1880		95	40-140	4	30	
Dinoseb	0.032	0.048	mg/kg dry	0.09500		34	10-100	17	30	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8151A Chlorinated Herbicides										
Batch CI32326 - 3546										
Dinoseb [2C]	0.029	0.048	mg/kg dry	0.09500		30	10-100	17	30	
MCPA	15.2	2.32	mg/kg dry	18.60		82	40-140	7	30	
MCPA [2C]	12.6	2.32	mg/kg dry	18.60		68	40-140	3	30	
MCPP	15.9	2.35	mg/kg dry	18.80		85	40-140	10	30	
MCPP [2C]	14.5	2.35	mg/kg dry	18.80		77	40-140	1	30	
Surrogate: DCAA	*22.7*		mg/kg dry	*20.00*		*114*	*30-150*			
Surrogate: DCAA [2C]	*18.8*		mg/kg dry	*20.00*		*94*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
Blank										
1,1-Biphenyl	ND	0.333	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.65*		mg/kg wet	*3.333*		*80*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.19*		mg/kg wet	*5.000*		*104*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.99*		mg/kg wet	*5.000*		*80*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.74*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: 2-Fluorophenol	*3.79*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.21*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: Phenol-d6	*3.85*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.51*		mg/kg wet	*3.333*		*105*	*30-130*			
LCS										
1,1-Biphenyl	2.80	1.33	mg/kg wet	3.333		84	40-140			
1,2,4-Trichlorobenzene	2.56	0.333	mg/kg wet	3.333		77	40-140			
1,2-Dichlorobenzene	2.44	0.333	mg/kg wet	3.333		73	40-140			
1,3-Dichlorobenzene	2.40	0.333	mg/kg wet	3.333		72	40-140			
1,4-Dichlorobenzene	2.50	0.333	mg/kg wet	3.333		75	40-140			
2,4,5-Trichlorophenol	2.99	0.333	mg/kg wet	3.333		90	30-130			
2,4,6-Trichlorophenol	2.90	0.333	mg/kg wet	3.333		87	30-130			
2,4-Dichlorophenol	2.59	0.333	mg/kg wet	3.333		78	30-130			
2,4-Dimethylphenol	2.49	0.333	mg/kg wet	3.333		75	30-130			
2,4-Dinitrophenol	2.35	1.67	mg/kg wet	3.333		70	30-130			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
2,4-Dinitrotoluene	2.96	0.333	mg/kg wet	3.333		89	40-140			
2,6-Dinitrotoluene	2.93	0.333	mg/kg wet	3.333		88	40-140			
2-Chloronaphthalene	2.27	0.333	mg/kg wet	3.333		68	40-140			
2-Chlorophenol	2.56	0.333	mg/kg wet	3.333		77	30-130			
2-Methylnaphthalene	2.61	0.333	mg/kg wet	3.333		78	40-140			
2-Methylphenol	2.47	0.333	mg/kg wet	3.333		74	30-130			
2-Nitrophenol	2.64	0.333	mg/kg wet	3.333		79	30-130			
3,3´-Dichlorobenzidine	2.51	0.667	mg/kg wet	3.333		75	40-140			
3+4-Methylphenol	5.09	0.667	mg/kg wet	6.667		76	30-130			
4-Bromophenyl-phenylether	3.08	0.333	mg/kg wet	3.333		93	40-140			
4-Chloroaniline	2.05	0.667	mg/kg wet	3.333		61	40-140			
4-Nitrophenol	2.09	1.67	mg/kg wet	3.333		63	30-130			
Acenaphthene	2.52	0.333	mg/kg wet	3.333		76	40-140			
Acenaphthylene	2.61	0.333	mg/kg wet	3.333		78	40-140			
Acetophenone	2.44	0.667	mg/kg wet	3.333		73	40-140			
Aniline	1.91	1.67	mg/kg wet	3.333		57	40-140			
Anthracene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Azobenzene	2.35	0.333	mg/kg wet	3.333		71	40-140			
Benzo(a)anthracene	3.21	0.333	mg/kg wet	3.333		96	40-140			
Benzo(a)pyrene	2.91	0.167	mg/kg wet	3.333		87	40-140			
Benzo(b)fluoranthene	2.92	0.333	mg/kg wet	3.333		88	40-140			
Benzo(g,h,i)perylene	2.99	0.333	mg/kg wet	3.333		90	40-140			
Benzo(k)fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
bis(2-Chloroethoxy)methane	2.28	0.333	mg/kg wet	3.333		68	40-140			
bis(2-Chloroethyl)ether	2.09	0.333	mg/kg wet	3.333		63	40-140			
bis(2-chloroisopropyl)Ether	2.44	0.333	mg/kg wet	3.333		73	40-140			
bis(2-Ethylhexyl)phthalate	2.85	0.333	mg/kg wet	3.333		85	40-140			
Butylbenzylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140			
Chrysene	3.15	0.167	mg/kg wet	3.333		94	40-140			
Dibenzo(a,h)Anthracene	2.91	0.167	mg/kg wet	3.333		87	40-140			
Dibenzofuran	2.61	0.333	mg/kg wet	3.333		78	40-140			
Diethylphthalate	2.74	0.333	mg/kg wet	3.333		82	40-140			
Dimethylphthalate	2.74	0.333	mg/kg wet	3.333		82	40-140			
Di-n-butylphthalate	2.69	0.333	mg/kg wet	3.333		81	40-140			
Di-n-octylphthalate	2.72	0.333	mg/kg wet	3.333		82	40-140			
Fluoranthene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Fluorene	2.65	0.333	mg/kg wet	3.333		79	40-140			
Hexachlorobenzene	3.14	0.333	mg/kg wet	3.333		94	40-140			
Hexachlorobutadiene	2.63	0.333	mg/kg wet	3.333		79	40-140			
Hexachloroethane	2.32	0.333	mg/kg wet	3.333		70	40-140			
Indeno(1,2,3-cd)Pyrene	3.21	0.333	mg/kg wet	3.333		96	40-140			
Isophorone	2.39	0.333	mg/kg wet	3.333		72	40-140			
Naphthalene	2.55	0.333	mg/kg wet	3.333		77	40-140			
Nitrobenzene	2.12	0.333	mg/kg wet	3.333		64	40-140			
N-Nitrosodimethylamine	2.12	0.333	mg/kg wet	3.333		64	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
Pentachlorophenol	3.08	1.67	mg/kg wet	3.333		92	30-130			
Phenanthrene	2.86	0.333	mg/kg wet	3.333		86	40-140			
Phenol	2.38	0.333	mg/kg wet	3.333		71	30-130			
Pyrene	2.99	0.333	mg/kg wet	3.333		90	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.62*		mg/kg wet	*3.333*		*79*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.59*		mg/kg wet	*5.000*		*112*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.95*		mg/kg wet	*5.000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: 2-Fluorophenol	*3.83*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.31*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*3.83*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.74*		mg/kg wet	*3.333*		*112*	*30-130*			
LCS Dup										
1,1-Biphenyl	2.81	1.33	mg/kg wet	3.333		84	40-140	0.5	30	
1,2,4-Trichlorobenzene	2.61	0.333	mg/kg wet	3.333		78	40-140	2	30	
1,2-Dichlorobenzene	2.56	0.333	mg/kg wet	3.333		77	40-140	5	30	
1,3-Dichlorobenzene	2.49	0.333	mg/kg wet	3.333		75	40-140	4	30	
1,4-Dichlorobenzene	2.57	0.333	mg/kg wet	3.333		77	40-140	2	30	
2,4,5-Trichlorophenol	3.27	0.333	mg/kg wet	3.333		98	30-130	9	30	
2,4,6-Trichlorophenol	3.18	0.333	mg/kg wet	3.333		95	30-130	9	30	
2,4-Dichlorophenol	2.75	0.333	mg/kg wet	3.333		82	30-130	6	30	
2,4-Dimethylphenol	2.60	0.333	mg/kg wet	3.333		78	30-130	4	30	
2,4-Dinitrophenol	2.66	1.67	mg/kg wet	3.333		80	30-130	12	30	
2,4-Dinitrotoluene	3.20	0.333	mg/kg wet	3.333		96	40-140	8	30	
2,6-Dinitrotoluene	3.18	0.333	mg/kg wet	3.333		95	40-140	8	30	
2-Chloronaphthalene	2.65	0.333	mg/kg wet	3.333		80	40-140	16	30	
2-Chlorophenol	2.64	0.333	mg/kg wet	3.333		79	30-130	3	30	
2-Methylnaphthalene	2.74	0.333	mg/kg wet	3.333		82	40-140	5	30	
2-Methylphenol	2.60	0.333	mg/kg wet	3.333		78	30-130	5	30	
2-Nitrophenol	2.75	0.333	mg/kg wet	3.333		83	30-130	4	30	
3,3´-Dichlorobenzidine	2.75	0.667	mg/kg wet	3.333		83	40-140	9	30	
3+4-Methylphenol	5.31	0.667	mg/kg wet	6.667		80	30-130	4	30	
4-Bromophenyl-phenylether	3.45	0.333	mg/kg wet	3.333		104	40-140	11	30	
4-Chloroaniline	2.09	0.667	mg/kg wet	3.333		63	40-140	2	30	
4-Nitrophenol	2.40	1.67	mg/kg wet	3.333		72	30-130	14	30	
Acenaphthene	2.77	0.333	mg/kg wet	3.333		83	40-140	9	30	
Acenaphthylene	2.89	0.333	mg/kg wet	3.333		87	40-140	10	30	
Acetophenone	2.53	0.667	mg/kg wet	3.333		76	40-140	3	30	
Aniline	2.00	1.67	mg/kg wet	3.333		60	40-140	5	30	
Anthracene	3.11	0.333	mg/kg wet	3.333		93	40-140	7	30	
Azobenzene	2.51	0.333	mg/kg wet	3.333		75	40-140	7	30	
Benzo(a)anthracene	3.39	0.333	mg/kg wet	3.333		102	40-140	5	30	
Benzo(a)pyrene	3.12	0.167	mg/kg wet	3.333		93	40-140	7	30	
Benzo(b)fluoranthene	3.24	0.333	mg/kg wet	3.333		97	40-140	10	30	
Benzo(g,h,i)perylene	3.13	0.333	mg/kg wet	3.333		94	40-140	5	30	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
Benzo(k)fluoranthene	3.02	0.333	mg/kg wet	3.333		91	40-140	3	30	
bis(2-Chloroethoxy)methane	2.41	0.333	mg/kg wet	3.333		72	40-140	5	30	
bis(2-Chloroethyl)ether	2.17	0.333	mg/kg wet	3.333		65	40-140	4	30	
bis(2-chloroisopropyl)Ether	2.64	0.333	mg/kg wet	3.333		79	40-140	8	30	
bis(2-Ethylhexyl)phthalate	3.00	0.333	mg/kg wet	3.333		90	40-140	5	30	
Butylbenzylphthalate	3.03	0.333	mg/kg wet	3.333		91	40-140	8	30	
Chrysene	3.25	0.167	mg/kg wet	3.333		98	40-140	3	30	
Dibenzo(a,h)Anthracene	2.93	0.167	mg/kg wet	3.333		88	40-140	0.6	30	
Dibenzofuran	2.88	0.333	mg/kg wet	3.333		87	40-140	10	30	
Diethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	8	30	
Dimethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	8	30	
Di-n-butylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140	7	30	
Di-n-octylphthalate	2.87	0.333	mg/kg wet	3.333		86	40-140	5	30	
Fluoranthene	3.12	0.333	mg/kg wet	3.333		94	40-140	8	30	
Fluorene	2.89	0.333	mg/kg wet	3.333		87	40-140	9	30	
Hexachlorobenzene	3.47	0.333	mg/kg wet	3.333		104	40-140	10	30	
Hexachlorobutadiene	2.66	0.333	mg/kg wet	3.333		80	40-140	1	30	
Hexachloroethane	2.44	0.333	mg/kg wet	3.333		73	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	3.50	0.333	mg/kg wet	3.333		105	40-140	8	30	
Isophorone	2.47	0.333	mg/kg wet	3.333		74	40-140	3	30	
Naphthalene	2.60	0.333	mg/kg wet	3.333		78	40-140	2	30	
Nitrobenzene	2.14	0.333	mg/kg wet	3.333		64	40-140	1	30	
N-Nitrosodimethylamine	2.53	0.333	mg/kg wet	3.333		76	40-140	17	30	
Pentachlorophenol	3.18	1.67	mg/kg wet	3.333		96	30-130	3	30	
Phenanthrene	3.15	0.333	mg/kg wet	3.333		95	40-140	9	30	
Phenol	2.46	0.333	mg/kg wet	3.333		74	30-130	3	30	
Pyrene	3.07	0.333	mg/kg wet	3.333		92	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.62*		mg/kg wet	*3.333*		*79*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.81*		mg/kg wet	*5.000*		*116*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.95*		mg/kg wet	*5.000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.87*		mg/kg wet	*3.333*		*86*	*30-130*			
Surrogate: 2-Fluorophenol	*3.86*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.31*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*3.85*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.53*		mg/kg wet	*3.333*		*106*	*30-130*			
Classical Chemistry										
Batch CI32316 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.9	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.1	2.0	mg/kg	10.00		1	0-44			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch CI32516 - General Preparation										
Reference										
Flashpoint	82		°F	81.00		101	98.15-101.85			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309445

Notes and Definitions

Z-10a	Soil pH measured in water at 20.9 ºC.
Z-10	Soil pH measured in water at 20.8 ºC.
U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
S-	Surrogate recovery(ies) below lower control limit (S-).
Q	Calibration required quadratic regression (Q).
PI	Sample contained other compounds, such as PCBs, which may have interfered with the Pesticide analysis.
E	Reported above the quantitation limit; Estimated value (E).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
>	Greater than.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309445

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13090445
Date Project Due: 9/27/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: **0.5**
   Iced With: **Ice**
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved: Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes|No
17. Were samples received intact? Yes|No

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

LL VOCs frozen 9/20/13 @ 1200 per (LA)

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	2	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	2	NP
20	Yes	8 oz Soil Jar	2	NP

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group

ESS Project ID: 13090445

Completed By: [illegible]

Date/Time: 9/20/13 2330

Reviewed By: [illegible]

Date/Time: 9/23/13 11:20

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1-2 of 5 9/26/13

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID 1309445 (12)

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners, 1900 Crown Colony, Suite 402, Quincy, MA 02169

Project #:

Project Name (20 Char. or less): Strawberry Hill

Contact Person: Carter Fahy

Address:

City: State: Zip: PO#:

Telephone #: 617-657-0200 Fax #: Email Address: cct@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	VOC High (1)	VOC LL	Flashpoint	Reactivity	SVOC	Herbicides	Pesticides	Ph					
01	9-20-13	1215			S	~~55A~~ 54A	1,2	7	G,V	X	X	X	X	X	X	X	X	X					
02		1215			S	~~55B~~ 54B	1	1	G	X													
03		1210			S	56A	1	1	G	X													
04		1210			S	56B	1	1	G	X													
05		1205			S	57A	1	1	G	X													
06		1205			S	57B	1	1	G	X													
07		1200			S	58A	1	1	G	X													
08		1200			S	58B	1	1	G	X													
09		1155			S	59A	1	1	G	X													
10		1155			S	59B	1	1	G	X													

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 0.5 ICE KH

Internal Use Only
[✓] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: Carter Fahy

Comments: (1) LL VOCs frozen 9/20/13 @ 2200 per [illegible]

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	9/20	[signature]	9-20-13 14:26	[signature]	9-20-13 16:25	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 4 of 5 9/20/13 (26)

Turn Time X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from: (MA) RI CT NH NJ NY ME Other ____

Is this project for any of the following: MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID 1309445

Electronic Deliverable Yes X No ____
Format: Excel X Access ____ PDF X Other ____

Co. Name	Environmental Partners 1900 Crown Colony Suite 402 Quincy, MA 02169
Project #	
Project Name (20 Char. or less)	Strawberry Hill
Contact Person	Carter Fahy
Address	
City	
State	
Zip	
PO#	
Telephone #	617-657-0200
Fax #	
Email Address	ccf@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	SVOC	Herbicides Pesticides	SVOC	Flashpoint	Reactivity	pH	~~Reactivity~~	Temp	~~Flashpoint~~	~~pH~~			
11	9-20-13	1150			S	60 A	1	1	G	X													
12		1150			S	60 B	1	1	G	X													
13		1145			S	61 A	1	1	G	X													
14		1145			S	61 B	1	1	G	X													
15		1140			S	62 A	1	1	G	X													
16		910			S	321 A	1	1	G	X													
17		950			S	322 A	1	1	G	X													
18		1020			S	323 A	1	1	G	X													
19		1045			S	324 A	1	1	G	X													
20		1105			S	325 A	1	1	G	X	X	X	X	X	X	X	X						

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 0.5 ICE KH

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Carter Fahy

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	9/20	[signature]	9-20-13 14:26	[signature]	9-20-13 16:25	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1309443

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:59 pm, Oct 03, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

SAMPLE RECEIPT

The following samples were received on September 20, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1309443-01	Paint Chip	Soil	8082A
1309443-02	319A	Soil	8082A
1309443-03	320A	Soil	8082A
1309443-04	186A	Soil	1010, 7.3.3.2, 7.3.4.1, 8081B, 8082A, 8151A, 8260B Low, 8270D, 9045
1309443-05	186B	Soil	8082A
1309443-06	241A	Soil	6010B, 7471B, 8082A, EPH8270, MADEP-EPH
1309443-07	229A	Soil	6010B, 7471B, 8082A, EPH8270, MADEP-EPH
1309443-08	160A	Soil	1311, 1311/6010B, 6010B, 7471B, EPH8270, MADEP-EPH
1309443-09	160B	Soil	8082A
1309443-10	90A	Soil	1311, 1311/6010B, 6010B, 7471B, EPH8270, MADEP-EPH
1309443-11	40A	Soil	8082A
1309443-12	40B	Soil	8082A
1309443-13	41A	Soil	8082A
1309443-14	41B	Soil	8082A
1309443-15	42A	Soil	8082A
1309443-16	42B	Soil	8082A
1309443-17	18A	Soil	8082A
1309443-18	19A	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309443

1309443-19	20A	Soil	1311, 1311/6010B, 6010B, 7471B, 8082A, EPH8270, MADEP-EPH
1309443-20	21A	Soil	8082A
1309443-21	Trip Blank	Solid	8260B Low

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309443

PROJECT NARRATIVE

8081A Organochlorine Pesticides

1309443-04 **Lower value is used due to matrix interferences (LC).**
4,4´-DDT , Dieldrin [2C]

1309443-04 **Percent difference between primary and confirmation results exceeds 40% (P).**
4,4´-DDT , Dieldrin [2C]

CWI0355-CCV7 **Continuing Calibration recovery is below lower control limit (C-).**
4,4´-DDT (76% @ 80-120%), Methoxychlor (75% @ 80-120%)

CWI0355-CCV7 **Surrogate recovery(ies) below lower control limit (S-).**
Decachlorobiphenyl (73% @ 80-120%)

8082A Polychlorinated Biphenyls (PCB)

1309443-01 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1254

1309443-01 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl (170% @ 30-150%)

8151A Chlorinated Herbicides

1309443-04 **Modified result**
MCPA , MCPP

1309443-04 **Peaks found in the retention time window for MCPA, MCPP did not confirm by GC/MS.**

CWI0317-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
MCPA [2C] (81% @ 85-115%)

CWI0317-CCV2 **Continuing Calibration recovery is below lower control limit (C-).**
MCPA [2C] (81% @ 85-115%)

8270D Semi-Volatile Organic Compounds

CWI0284-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (90% @ 80-120%), Pentachlorophenol (103% @ 80-120%)

CWI0284-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
4-Bromophenyl-phenylether (126% @ 80-120%)

CWI0284-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
4-Nitrophenol (70% @ 80-120%)

MADEP-EPH Extractable Petroleum Hydrocarbons

CWI0281-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
Hexatriacontane (C36) (74% @ 75-125%)

CWI0282-CCV4 **Continuing Calibration recovery is below lower control limit (C-).**
Benzo(g,h,i)perylene (67% @ 80-120%)

Total Metals Solid

1309443-10 **Elevated Method Reporting Limits due to sample matrix (EL).**
Silver

CI32109-BSD1 **Blank Spike recovery is below lower control limit (B-).**

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309443

Cadmium (79% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1309443-01 through 1309443-21**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air (X) Other: Solid

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	(X) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
(X) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	(X) MassDEP EPH CAM IV B	(X) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 03, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Paint Chip
Date Sampled: 09/19/13 12:00
Percent Solids: N/A
Initial Volume: 5.012
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-01
Sample Matrix: Soil
Units: mg/kg wet
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1221	ND (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1232	ND (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1242	ND (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1248	**0.267** (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1254	**P 0.653** (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1260	ND (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1262	ND (0.200)		8082A		1	09/29/13 10:21		CI32606
Aroclor 1268	ND (0.200)		8082A		1	09/29/13 10:21		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*170 %*	*SM*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*59 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 319A
Date Sampled: 09/19/13 13:36
Percent Solids: 80
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0606)		8082A		1	09/29/13 10:40		CI32606
Aroclor 1221	ND (0.0606)		8082A		1	09/29/13 10:40		CI32606
Aroclor 1232	ND (0.0606)		8082A		1	09/29/13 10:40		CI32606
Aroclor 1242	ND (0.0606)		8082A		1	09/29/13 10:40		CI32606
Aroclor 1248	**0.639** (0.0606)		8082A		1	09/29/13 10:40		CI32606
Aroclor 1254	**2.40** (0.303)		8082A		5	09/30/13 20:11		CI32606
Aroclor 1260	ND (0.0606)		8082A		1	09/29/13 10:40		CI32606
Aroclor 1262	ND (0.0606)		8082A		1	09/29/13 10:40		CI32606
Aroclor 1268	ND (0.0606)		8082A		1	09/29/13 10:40		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*50 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*41 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*38 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 320A
Date Sampled: 09/19/13 14:30
Percent Solids: 84
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1221	ND (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1232	ND (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1242	ND (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1248	**0.288** (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1254	**0.770** (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1260	ND (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1262	ND (0.0592)		8082A		1	09/29/13 10:59		CI32606
Aroclor 1268	ND (0.0592)		8082A		1	09/29/13 10:59		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*87 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,1,1-Trichloroethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,1,2,2-Tetrachloroethane	ND (0.0020)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,1,2-Trichloroethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,1-Dichloroethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,1-Dichloroethene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,1-Dichloropropene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2,3-Trichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2,3-Trichloropropane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2,4-Trichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2,4-Trimethylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2-Dibromoethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2-Dichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2-Dichloroethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,2-Dichloropropane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,3,5-Trimethylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,3-Dichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,3-Dichloropropane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,4-Dichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
1,4-Dioxane	ND (0.100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
2,2-Dichloropropane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
2-Butanone	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
2-Chlorotoluene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
2-Hexanone	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
4-Chlorotoluene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
4-Isopropyltoluene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
4-Methyl-2-Pentanone	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Acetone	**0.0142** (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Benzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Bromobenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Bromodichloromethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Bromoform	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Bromomethane	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Carbon Disulfide	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Carbon Tetrachloride	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Chlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Chloroethane	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Chloroform	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Chloromethane	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
cis-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
cis-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Dibromochloromethane	ND (0.0020)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Dibromomethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Dichlorodifluoromethane	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Diethyl Ether	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Di-isopropyl ether	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Ethyl tertiary-butyl ether	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Ethylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Hexachlorobutadiene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Isopropylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Methyl tert-Butyl Ether	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Methylene Chloride	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Naphthalene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
n-Butylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
n-Propylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
sec-Butylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Styrene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
tert-Butylbenzene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Tertiary-amyl methyl ether	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Tetrachloroethene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Toluene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
trans-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
trans-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Trichloroethene	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Trichlorofluoromethane	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Vinyl Chloride	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Xylene O	ND (0.0050)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Xylene P,M	ND (0.0100)		8260B Low		1	09/23/13 18:20	CWI0293	CI32337
Xylenes (Total)	ND (0.0100)		8260B Low		1	09/23/13 18:20		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*114 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*88 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*93 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 19.2
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/24/13 18:06

8081A Organochlorine Pesticides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
4,4´-DDE	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
4,4´-DDT	**LC, P 0.0122** (0.0033)		8081B		1	09/27/13 16:21		CI32422
Aldrin	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
alpha-BHC	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
alpha-Chlordane	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
beta-BHC [2C]	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Chlordane (Total)	ND (0.0263)		8081B		1	09/27/13 16:21		CI32422
delta-BHC	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Dieldrin [2C]	**LC, P 0.0046** (0.0033)		8081B		1	09/27/13 16:21		CI32422
Endosulfan I [2C]	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Endosulfan II	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Endosulfan Sulfate	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Endrin	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Endrin Ketone	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
gamma-BHC (Lindane)	ND (0.0020)		8081B		1	09/27/13 16:21		CI32422
gamma-Chlordane	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Heptachlor	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Heptachlor Epoxide	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Hexachlorobenzene	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Methoxychlor	ND (0.0033)		8081B		1	09/27/13 16:21		CI32422
Toxaphene	ND (0.164)		8081B		1	09/27/13 16:21		CI32422
Toxaphene [2C]	ND (0.164)		8081B		1	09/27/13 16:21		CI32422

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*56 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*54 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*58 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0627)		8082A		1	09/29/13 11:18		CI32606
Aroclor 1221	ND (0.0627)		8082A		1	09/29/13 11:18		CI32606
Aroclor 1232	ND (0.0627)		8082A		1	09/29/13 11:18		CI32606
Aroclor 1242	ND (0.0627)		8082A		1	09/29/13 11:18		CI32606
Aroclor 1248	**2.40** (0.314)		8082A		5	09/30/13 20:30		CI32606
Aroclor 1254	**4.75** (0.314)		8082A		5	09/30/13 20:30		CI32606
Aroclor 1260	ND (0.0627)		8082A		1	09/29/13 11:18		CI32606
Aroclor 1262	ND (0.0627)		8082A		1	09/29/13 11:18		CI32606
Aroclor 1268	ND (0.0627)		8082A		1	09/29/13 11:18		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*45 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*54 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*47 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 10
Final Volume: 4
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VSC
Prepared: 9/23/13 15:00

8151A Chlorinated Herbicides

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2,4,5-T	ND (0.008)		8151A		1	09/25/13 0:34	CWI0317	CI32326
2,4,5-TP (Silvex)	ND (0.008)		8151A		1	09/25/13 0:34	CWI0317	CI32326
2,4-D	ND (0.037)		8151A		1	09/25/13 0:34	CWI0317	CI32326
2,4-DB	ND (0.038)		8151A		1	09/25/13 0:34	CWI0317	CI32326
Dalapon	ND (0.036)		8151A		1	09/25/13 0:34	CWI0317	CI32326
Dicamba	ND (0.007)		8151A		1	09/25/13 0:34	CWI0317	CI32326
Dichlorprop	ND (0.037)		8151A		1	09/25/13 0:34	CWI0317	CI32326
Dinoseb	ND (0.038)		8151A		1	09/25/13 0:34	CWI0317	CI32326
MCPA	# ND (1.84)		8151A		1	09/25/13 0:34	CWI0317	CI32326
MCPP	# ND (1.86)		8151A		1	09/25/13 0:34	CWI0317	CI32326

	%Recovery	Qualifier	Limits
Surrogate: DCAA	*102 %*		*30-150*
Surrogate: DCAA [2C]	*97 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 14.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
1,2,4-Trichlorobenzene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
1,2-Dichlorobenzene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
1,3-Dichlorobenzene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
1,4-Dichlorobenzene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2,4,5-Trichlorophenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2,4,6-Trichlorophenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2,4-Dichlorophenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2,4-Dimethylphenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2,4-Dinitrophenol	ND (2.21)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2,4-Dinitrotoluene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2,6-Dinitrotoluene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2-Chloronaphthalene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2-Chlorophenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2-Methylnaphthalene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2-Methylphenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
2-Nitrophenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
3,3´-Dichlorobenzidine	ND (0.882)		8270D		1	09/23/13 19:44	CWI0284	CI32312
3+4-Methylphenol	ND (0.882)		8270D		1	09/23/13 19:44	CWI0284	CI32312
4-Bromophenyl-phenylether	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
4-Chloroaniline	ND (0.882)		8270D		1	09/23/13 19:44	CWI0284	CI32312
4-Nitrophenol	ND (2.21)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Acenaphthene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Acenaphthylene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Acetophenone	ND (0.882)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Aniline	ND (2.21)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Anthracene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Azobenzene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Benzo(a)anthracene	**2.25** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Benzo(a)pyrene	**1.92** (0.221)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Benzo(b)fluoranthene	**1.92** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 14.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Benzo(g,h,i)perylene	**0.606** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Benzo(k)fluoranthene	**0.609** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
bis(2-Chloroethoxy)methane	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
bis(2-Chloroethyl)ether	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
bis(2-chloroisopropyl)Ether	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
bis(2-Ethylhexyl)phthalate	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Butylbenzylphthalate	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Chrysene	**2.71** (0.221)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Dibenzo(a,h)Anthracene	ND (0.221)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Dibenzofuran	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Diethylphthalate	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Dimethylphthalate	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Di-n-butylphthalate	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Di-n-octylphthalate	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Fluoranthene	**2.24** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Fluorene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Hexachlorobenzene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Hexachlorobutadiene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Hexachloroethane	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Indeno(1,2,3-cd)Pyrene	**0.538** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Isophorone	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Naphthalene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Nitrobenzene	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
N-Nitrosodimethylamine	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Pentachlorophenol	ND (2.21)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Phenanthrene	**1.16** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Phenol	ND (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312
Pyrene	**3.21** (0.440)		8270D		1	09/23/13 19:44	CWI0284	CI32312

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79
Initial Volume: 14.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/23/13 14:50

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
		%Recovery	Qualifier	Limits				
Surrogate: 1,2-Dichlorobenzene-d4		*78 %*		*30-130*				
Surrogate: 2,4,6-Tribromophenol		*115 %*		*30-130*				
Surrogate: 2-Chlorophenol-d4		*80 %*		*30-130*				
Surrogate: 2-Fluorobiphenyl		*84 %*		*30-130*				
Surrogate: 2-Fluorophenol		*72 %*		*30-130*				
Surrogate: Nitrobenzene-d5		*70 %*		*30-130*				
Surrogate: Phenol-d6		*73 %*		*30-130*				
Surrogate: p-Terphenyl-d14		*87 %*		*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186A
Date Sampled: 09/19/13 12:15
Percent Solids: 79

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-04
Sample Matrix: Soil

Classical Chemistry

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Units	Batch
Corrosivity (pH)	**6.11** (N/A)		9045		1	JLK	09/20/13 17:41	S.U.	CI32044
Corrosivity (pH) Sample Temp	**Soil pH measured in water at 20.9 ºC.**								
Flashpoint	**> 200** (N/A)		1010		1	JLK	09/25/13 10:35	°F	CI32516
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	09/23/13 10:30	mg/kg	CI32316
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	09/23/13 10:30	mg/kg	CI32316

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 186B
Date Sampled: 09/19/13 12:15
Percent Solids: 85
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1221	ND (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1232	ND (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1242	ND (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1248	**0.370** (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1254	**0.776** (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1260	ND (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1262	ND (0.0585)		8082A		1	09/29/13 12:15		CI32606
Aroclor 1268	ND (0.0585)		8082A		1	09/29/13 12:15		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*58 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*49 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*53 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*51 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 241A
Date Sampled: 09/19/13 11:20
Percent Solids: 83

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**6.0** (2.9)		6010B		1	JP	09/21/13 21:35	2.1	100	CI32109
Barium	**51.9** (2.9)		6010B		1	JP	09/21/13 21:35	2.1	100	CI32109
Cadmium	**0.91** (0.57)		6010B		1	JP	09/21/13 21:35	2.1	100	CI32109
Chromium	**12.8** (1.1)		6010B		1	JP	09/21/13 21:35	2.1	100	CI32109
Lead	**42.7** (5.7)		6010B		1	JP	09/21/13 21:35	2.1	100	CI32109
Mercury	**0.057** (0.038)		7471B		1	JP	09/24/13 13:29	0.62	40	CI32108
Selenium	ND (5.7)		6010B		1	JP	09/21/13 21:35	2.1	100	CI32109
Silver	ND (0.57)		6010B		1	JP	09/21/13 21:35	2.1	100	CI32109

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 241A
Date Sampled: 09/19/13 11:20
Percent Solids: 83
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1221	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1232	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1242	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1248	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1254	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1260	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1262	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606
Aroclor 1268	ND (0.0589)		8082A		1	09/29/13 12:33		CI32606

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 241A
Date Sampled: 09/19/13 11:20
Percent Solids: 83
Initial Volume: 24.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-06
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 9/24/13 11:58

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (18.5)		MADEP-EPH		1	ML	09/26/13 22:28	CWI0357	CI32314
C19-C36 Aliphatics1	ND (18.5)		MADEP-EPH		1	ML	09/26/13 22:28	CWI0357	CI32314
C11-C22 Unadjusted Aromatics1	**33.0** (18.5)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
C11-C22 Aromatics1,2	**28.4** (18.5)		EPH8270			VSC	09/26/13 13:45		[CALC]
2-Methylnaphthalene	ND (0.25)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Acenaphthene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Naphthalene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Phenanthrene	**0.87** (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Acenaphthylene	ND (0.25)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Anthracene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Benzo(a)anthracene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Benzo(a)pyrene	**0.53** (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Benzo(b)fluoranthene	**0.60** (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Benzo(g,h,i)perylene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Benzo(k)fluoranthene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Chrysene	**0.51** (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Dibenzo(a,h)Anthracene	ND (0.25)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Fluoranthene	**0.96** (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Fluorene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Indeno(1,2,3-cd)Pyrene	ND (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314
Pyrene	**1.13** (0.49)		EPH8270		1	VSC	09/26/13 13:45	CWI0346	CI32314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*76 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*95 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*70 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 229A
Date Sampled: 09/19/13 11:30
Percent Solids: 90

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**5.2** (2.7)		6010B		1	JP	09/21/13 21:40	2.1	100	CI32109
Barium	**53.4** (2.7)		6010B		1	JP	09/21/13 21:40	2.1	100	CI32109
Cadmium	**0.55** (0.53)		6010B		1	JP	09/21/13 21:40	2.1	100	CI32109
Chromium	**13.2** (1.1)		6010B		1	JP	09/21/13 21:40	2.1	100	CI32109
Lead	**85.1** (5.3)		6010B		1	JP	09/21/13 21:40	2.1	100	CI32109
Mercury	ND (0.033)		7471B		1	JP	09/24/13 13:48	0.66	40	CI32108
Selenium	ND (5.3)		6010B		1	JP	09/21/13 21:40	2.1	100	CI32109
Silver	ND (0.53)		6010B		1	JP	09/21/13 21:40	2.1	100	CI32109

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 229A
Date Sampled: 09/19/13 11:30
Percent Solids: 90
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1221	ND (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1232	ND (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1242	ND (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1248	**0.208** (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1254	**0.525** (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1260	ND (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1262	ND (0.0560)		8082A		1	09/29/13 12:52		CI32606
Aroclor 1268	ND (0.0560)		8082A		1	09/29/13 12:52		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*69 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*59 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 229A
Date Sampled: 09/19/13 11:30
Percent Solids: 90
Initial Volume: 24.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 9/24/13 11:58

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (17.1)		MADEP-EPH		1	ML	09/25/13 23:06	CWI0335	CI32314
C19-C36 Aliphatics1	ND (17.1)		MADEP-EPH		1	ML	09/25/13 23:06	CWI0335	CI32314
C11-C22 Unadjusted Aromatics1	**33.3** (17.1)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
C11-C22 Aromatics1,2	**28.2** (17.1)		EPH8270			VSC	09/26/13 14:31		[CALC]
2-Methylnaphthalene	ND (0.23)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Acenaphthene	ND (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Naphthalene	ND (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Phenanthrene	**0.98** (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Acenaphthylene	ND (0.23)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Anthracene	ND (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Benzo(a)anthracene	**0.47** (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Benzo(a)pyrene	**0.50** (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Benzo(b)fluoranthene	**0.53** (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Benzo(g,h,i)perylene	ND (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Benzo(k)fluoranthene	ND (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Chrysene	**0.52** (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Dibenzo(a,h)Anthracene	ND (0.23)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Fluoranthene	**0.93** (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Fluorene	ND (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Indeno(1,2,3-cd)Pyrene	ND (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314
Pyrene	**1.18** (0.45)		EPH8270		1	VSC	09/26/13 14:31	CWI0346	CI32314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*57 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*60 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 160A
Date Sampled: 09/19/13 12:36
Percent Solids: 82

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-08
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 9/24/13 18:20

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**0.106** (0.020)		1311/6010B	5	1	LLZ	09/26/13 2:07	50	50	CI32528

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 160A
Date Sampled: 09/19/13 12:36
Percent Solids: 82

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**4.9** (3.1)		6010B		1	JP	09/21/13 21:46	2	100	CI32109
Barium	**92.4** (3.1)		6010B		1	JP	09/21/13 21:46	2	100	CI32109
Cadmium	**0.64** (0.61)		6010B		1	JP	09/21/13 21:46	2	100	CI32109
Chromium	**20.9** (1.2)		6010B		1	JP	09/21/13 21:46	2	100	CI32109
Lead	**407** (6.1)		6010B		1	JP	09/21/13 21:46	2	100	CI32109
Mercury	ND (0.040)		7471B		1	JP	09/24/13 13:50	0.61	40	CI32108
Selenium	ND (6.1)		6010B		1	JP	09/21/13 21:46	2	100	CI32109
Silver	ND (0.61)		6010B		1	JP	09/21/13 21:46	2	100	CI32109

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 160A
Date Sampled: 09/19/13 12:36
Percent Solids: 82
Initial Volume: 24.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-08
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 9/24/13 11:58

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (18.9)		MADEP-EPH		1	ML	09/25/13 23:56	CWI0335	CI32314
C19-C36 Aliphatics1	ND (18.9)		MADEP-EPH		1	ML	09/25/13 23:56	CWI0335	CI32314
C11-C22 Unadjusted Aromatics1	**72.1** (18.9)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
C11-C22 Aromatics1,2	**66.6** (18.9)		EPH8270			VSC	09/26/13 15:18		[CALC]
2-Methylnaphthalene	ND (0.25)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Acenaphthene	ND (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Naphthalene	ND (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Phenanthrene	**0.70** (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Acenaphthylene	ND (0.25)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Anthracene	ND (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Benzo(a)anthracene	**0.57** (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Benzo(a)pyrene	**0.67** (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Benzo(b)fluoranthene	**0.79** (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Benzo(g,h,i)perylene	ND (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Benzo(k)fluoranthene	ND (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Chrysene	**0.71** (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Dibenzo(a,h)Anthracene	ND (0.25)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Fluoranthene	**1.01** (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Fluorene	ND (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Indeno(1,2,3-cd)Pyrene	ND (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314
Pyrene	**1.12** (0.50)		EPH8270		1	VSC	09/26/13 15:18	CWI0346	CI32314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*73 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*84 %*		*40-140*
Surrogate: O-Terphenyl	*64 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 160A
Date Sampled: 09/19/13 12:36
Percent Solids: 82
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-08
Sample Matrix: Soil
Units: °C
Analyst: NAR
Prepared: 9/24/13 18:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.0** (N/A)		1311		1	NAR	09/25/13 11:35	CI32434
Temperature (Max C)	**22.5** (N/A)		1311		1	NAR	09/25/13 11:35	CI32434
Temperature (Range)	**Temperature is within 23 +/-2 ºC.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 160B
Date Sampled: 09/19/13 12:36
Percent Solids: 87
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0573)		8082A		1	09/29/13 13:11		CI32606
Aroclor 1221	ND (0.0573)		8082A		1	09/29/13 13:11		CI32606
Aroclor 1232	ND (0.0573)		8082A		1	09/29/13 13:11		CI32606
Aroclor 1242	ND (0.0573)		8082A		1	09/29/13 13:11		CI32606
Aroclor 1248	**1.68** (0.287)		8082A		5	09/30/13 20:49		CI32606
Aroclor 1254	**3.75** (0.287)		8082A		5	09/30/13 20:49		CI32606
Aroclor 1260	ND (0.0573)		8082A		1	09/29/13 13:11		CI32606
Aroclor 1262	ND (0.0573)		8082A		1	09/29/13 13:11		CI32606
Aroclor 1268	ND (0.0573)		8082A		1	09/29/13 13:11		CI32606

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*52 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 90A
Date Sampled: 09/19/13 13:00
Percent Solids: 86

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-10
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 9/24/13 18:20

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	ND (0.020)		1311/6010B	5	1	LLZ	09/26/13 2:12	50	50	CI32528

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 90A
Date Sampled: 09/19/13 13:00
Percent Solids: 86

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-10
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**7.9** (2.7)		6010B		1	JP	09/21/13 21:51	2.15	100	CI32109
Barium	**75.0** (2.7)		6010B		1	JP	09/21/13 21:51	2.15	100	CI32109
Cadmium	ND (0.54)		6010B		1	JP	09/21/13 21:51	2.15	100	CI32109
Chromium	**22.6** (1.1)		6010B		1	JP	09/21/13 21:51	2.15	100	CI32109
Lead	**177** (5.4)		6010B		1	JP	09/21/13 21:51	2.15	100	CI32109
Mercury	ND (0.037)		7471B		1	JP	09/24/13 13:53	0.62	40	CI32108
Selenium	ND (5.4)		6010B		1	JP	09/21/13 21:51	2.15	100	CI32109
Silver	**EL** ND (1.09)		6010B		2	SVD	09/23/13 23:44	2.15	100	CI32109

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 90A
Date Sampled: 09/19/13 13:00
Percent Solids: 86
Initial Volume: 24.2
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-10
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 9/24/13 11:58

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (90.0)		MADEP-EPH		1	ML	09/26/13 0:48	CWI0335	CI32314
C19-C36 Aliphatics1	**186** (90.0)		MADEP-EPH		1	ML	09/26/13 0:48	CWI0335	CI32314
C11-C22 Unadjusted Aromatics1	**1390** (90.0)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
C11-C22 Aromatics1,2	**1130** (90.0)		EPH8270			VSC	09/26/13 17:37		[CALC]
2-Methylnaphthalene	**2.32** (1.20)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Acenaphthene	**8.21** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Naphthalene	ND (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Phenanthrene	**53.9** (12.0)		EPH8270		5	VSC	09/26/13 17:37	CWI0346	CI32314
Acenaphthylene	ND (1.20)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Anthracene	**8.29** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Benzo(a)anthracene	**17.9** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Benzo(a)pyrene	**17.5** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Benzo(b)fluoranthene	**17.1** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Benzo(g,h,i)perylene	**5.64** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Benzo(k)fluoranthene	**5.95** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Chrysene	**18.3** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Dibenzo(a,h)Anthracene	**2.14** (1.20)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Fluoranthene	**37.2** (12.0)		EPH8270		5	VSC	09/26/13 17:37	CWI0346	CI32314
Fluorene	**6.17** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Indeno(1,2,3-cd)Pyrene	**6.35** (2.40)		EPH8270		1	VSC	09/26/13 16:04	CWI0346	CI32314
Pyrene	**53.1** (12.0)		EPH8270		5	VSC	09/26/13 17:37	CWI0346	CI32314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*67 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*80 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*99 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 90A
Date Sampled: 09/19/13 13:00
Percent Solids: 86
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-10
Sample Matrix: Soil
Units: °C
Analyst: NAR
Prepared: 9/24/13 18:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.0** (N/A)		1311		1	NAR	09/25/13 11:35	CI32434
Temperature (Max C)	**22.5** (N/A)		1311		1	NAR	09/25/13 11:35	CI32434
Temperature (Range)	**Temperature is within 23 +/-2 ºC.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 40A
Date Sampled: 09/19/13 13:30
Percent Solids: 85
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1221	ND (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1232	ND (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1242	ND (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1248	**0.262** (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1254	**0.723** (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1260	ND (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1262	ND (0.0591)		8082A		1	09/29/13 13:30		CI32606
Aroclor 1268	ND (0.0591)		8082A		1	09/29/13 13:30		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 40B
Date Sampled: 09/19/13 13:30
Percent Solids: 87
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1221	ND (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1232	ND (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1242	ND (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1248	**0.120** (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1254	**0.336** (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1260	ND (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1262	ND (0.0572)		8082A		1	09/29/13 13:49		CI32606
Aroclor 1268	ND (0.0572)		8082A		1	09/29/13 13:49		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*66 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 41A
Date Sampled: 09/19/13 15:00
Percent Solids: 88
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1221	ND (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1232	ND (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1242	ND (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1248	**0.209** (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1254	**0.490** (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1260	ND (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1262	ND (0.0574)		8082A		1	09/29/13 14:08		CI32606
Aroclor 1268	ND (0.0574)		8082A		1	09/29/13 14:08		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*71 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 41B
Date Sampled: 09/19/13 15:00
Percent Solids: 87
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1221	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1232	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1242	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1248	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1254	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1260	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1262	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606
Aroclor 1268	ND (0.0570)		8082A		1	09/29/13 14:27		CI32606

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*87 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 42A
Date Sampled: 09/19/13 15:03
Percent Solids: 90
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1221	ND (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1232	ND (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1242	ND (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1248	**0.274** (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1254	**0.645** (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1260	ND (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1262	ND (0.0560)		8082A		1	09/29/13 14:46		CI32606
Aroclor 1268	ND (0.0560)		8082A		1	09/29/13 14:46		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 42B
Date Sampled: 09/19/13 15:03
Percent Solids: 88
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1221	ND (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1232	ND (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1242	ND (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1248	**0.0600** (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1254	**0.152** (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1260	ND (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1262	ND (0.0589)		8082A		1	09/29/13 15:05		CI32606
Aroclor 1268	ND (0.0589)		8082A		1	09/29/13 15:05		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*67 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*60 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*50 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 18A
Date Sampled: 09/19/13 15:35
Percent Solids: 88
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1221	ND (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1232	ND (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1242	ND (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1248	**0.194** (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1254	**0.544** (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1260	ND (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1262	ND (0.0568)		8082A		1	09/29/13 15:24		CI32606
Aroclor 1268	ND (0.0568)		8082A		1	09/29/13 15:24		CI32606

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 19A
Date Sampled: 09/19/13 15:37
Percent Solids: 88
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1221	ND (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1232	ND (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1242	ND (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1248	**0.229** (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1254	**0.432** (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1260	ND (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1262	ND (0.0569)		8082A		1	09/28/13 22:38		CI32607
Aroclor 1268	ND (0.0569)		8082A		1	09/28/13 22:38		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*135 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 20A
Date Sampled: 09/19/13 15:41
Percent Solids: 89

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-19
Sample Matrix: Soil
Units: mg/L

Extraction Method: 3005A TCLP

TCLP Extraction Date: 9/24/13 18:20

1311 TCLP Metals

Analyte	Results (MRL)	MDL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**0.093** (0.020)		1311/6010B	5	1	LLZ	09/26/13 2:16	50	50	CI32528

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 20A
Date Sampled: 09/19/13 15:41
Percent Solids: 89

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-19
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**9.1** (2.6)		6010B		1	JP	09/21/13 21:57	2.14	100	CI32109
Barium	**95.7** (2.6)		6010B		1	JP	09/21/13 21:57	2.14	100	CI32109
Cadmium	ND (0.53)		6010B		1	JP	09/21/13 21:57	2.14	100	CI32109
Chromium	**18.9** (1.1)		6010B		1	JP	09/21/13 21:57	2.14	100	CI32109
Lead	**264** (5.3)		6010B		1	JP	09/21/13 21:57	2.14	100	CI32109
Mercury	**0.080** (0.037)		7471B		1	JP	09/24/13 13:56	0.6	40	CI32108
Selenium	ND (5.3)		6010B		1	JP	09/21/13 21:57	2.14	100	CI32109
Silver	ND (0.53)		6010B		1	JP	09/21/13 21:57	2.14	100	CI32109

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 20A
Date Sampled: 09/19/13 15:41
Percent Solids: 89
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1221	ND (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1232	ND (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1242	ND (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1248	**0.211** (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1254	**0.475** (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1260	ND (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1262	ND (0.0547)		8082A		1	09/30/13 17:05		CI32607
Aroclor 1268	ND (0.0547)		8082A		1	09/30/13 17:05		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*108 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 20A
Date Sampled: 09/19/13 15:41
Percent Solids: 89
Initial Volume: 24.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-19
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 9/24/13 11:58

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (17.4)		MADEP-EPH		1	ML	09/26/13 1:38	CWI0335	CI32314
C19-C36 Aliphatics1	ND (17.4)		MADEP-EPH		1	ML	09/26/13 1:38	CWI0335	CI32314
C11-C22 Unadjusted Aromatics1	**58.6** (17.4)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
C11-C22 Aromatics1,2	**48.6** (17.4)		EPH8270			VSC	09/26/13 16:50		[CALC]
2-Methylnaphthalene	ND (0.23)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Acenaphthene	ND (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Naphthalene	ND (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Phenanthrene	**1.77** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Acenaphthylene	ND (0.23)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Anthracene	ND (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Benzo(a)anthracene	**0.80** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Benzo(a)pyrene	**0.88** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Benzo(b)fluoranthene	**1.12** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Benzo(g,h,i)perylene	**0.49** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Benzo(k)fluoranthene	ND (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Chrysene	**0.87** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Dibenzo(a,h)Anthracene	ND (0.23)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Fluoranthene	**1.89** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Fluorene	ND (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Indeno(1,2,3-cd)Pyrene	**0.57** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314
Pyrene	**1.54** (0.46)		EPH8270		1	VSC	09/26/13 16:50	CWI0346	CI32314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*68 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*94 %*		*40-140*
Surrogate: O-Terphenyl	*71 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 20A
Date Sampled: 09/19/13 15:41
Percent Solids: 89
Initial Volume: 100
Final Volume: 2000
Extraction Method: 1311

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-19
Sample Matrix: Soil
Units: °C
Analyst: NAR
Prepared: 9/24/13 18:20

TCLP Extraction by 1311

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Batch
Temperature (Min C)	**21.0** (N/A)		1311		1	NAR	09/25/13 11:35	CI32434
Temperature (Max C)	**22.5** (N/A)		1311		1	NAR	09/25/13 11:35	CI32434
Temperature (Range)	**Temperature is within 23 +/-2 ºC.** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 21A
Date Sampled: 09/19/13 15:45
Percent Solids: 91
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 9/26/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1221	ND (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1232	ND (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1242	ND (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1248	**0.183** (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1254	**0.307** (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1260	ND (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1262	ND (0.0531)		8082A		1	09/30/13 17:24		CI32607
Aroclor 1268	ND (0.0531)		8082A		1	09/30/13 17:24		CI32607

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Trip Blank
Date Sampled: 09/19/13 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-21
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,1,1-Trichloroethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,1,2,2-Tetrachloroethane	ND (0.0020)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,1,2-Trichloroethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,1-Dichloroethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,1-Dichloroethene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,1-Dichloropropene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2,3-Trichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2,3-Trichloropropane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2,4-Trichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2,4-Trimethylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2-Dibromoethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2-Dichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2-Dichloroethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,2-Dichloropropane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,3,5-Trimethylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,3-Dichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,3-Dichloropropane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,4-Dichlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
1,4-Dioxane	ND (0.100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
2,2-Dichloropropane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
2-Butanone	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
2-Chlorotoluene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
2-Hexanone	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
4-Chlorotoluene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
4-Isopropyltoluene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
4-Methyl-2-Pentanone	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Acetone	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Benzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Bromobenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Trip Blank
Date Sampled: 09/19/13 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-21
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Bromodichloromethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Bromoform	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Bromomethane	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Carbon Disulfide	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Carbon Tetrachloride	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Chlorobenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Chloroethane	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Chloroform	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Chloromethane	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
cis-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
cis-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Dibromochloromethane	ND (0.0020)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Dibromomethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Dichlorodifluoromethane	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Diethyl Ether	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Di-isopropyl ether	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Ethyl tertiary-butyl ether	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Ethylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Hexachlorobutadiene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Isopropylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Methyl tert-Butyl Ether	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Methylene Chloride	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Naphthalene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
n-Butylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
n-Propylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
sec-Butylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Styrene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
tert-Butylbenzene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Tertiary-amyl methyl ether	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Tetrachloroethene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Trip Blank
Date Sampled: 09/19/13 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1309443
ESS Laboratory Sample ID: 1309443-21
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Toluene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
trans-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
trans-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Trichloroethene	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Trichlorofluoromethane	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Vinyl Chloride	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Xylene O	ND (0.0050)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Xylene P,M	ND (0.0100)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337
Xylenes (Total)	ND (0.0075)		8260B Low		1	09/23/13 16:55	CWI0293	CI32337

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*93 %*		*70-130*
Surrogate: Dibromofluoromethane	*94 %*		*70-130*
Surrogate: Toluene-d8	*88 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311 TCLP Metals										
Batch CI32528 - 3005A_TCLP										
Blank										
Lead	ND	0.020	mg/L							
Blank										
Lead	ND	0.020	mg/L							
LCS										
Lead	0.513	0.020	mg/L	0.5000		103	80-120			
LCS Dup										
Lead	0.553	0.020	mg/L	0.5000		111	80-120	8	20	
Total Metals Solid										
Batch CI32108 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	21.3	3.25	mg/kg wet	19.90		107	80-120			
LCS Dup										
Mercury	18.7	3.00	mg/kg wet	19.90		94	80-120	13	20	
Batch CI32109 - 3050B										
Blank										
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
LCS										
Arsenic	92.2	8.9	mg/kg wet	99.60		93	80-120			
Barium	283	8.9	mg/kg wet	310.0		91	80-120			
Cadmium	157	1.79	mg/kg wet	182.0		86	80-120			
Chromium	127	3.6	mg/kg wet	136.0		94	80-120			
Lead	109	17.9	mg/kg wet	115.0		95	80-120			
Selenium	134	17.9	mg/kg wet	150.0		89	80-120			
Silver	37.4	1.79	mg/kg wet	40.40		93	80-120			
LCS Dup										
Arsenic	84.3	9.1	mg/kg wet	99.60		85	80-120	9	20	
Barium	261	9.1	mg/kg wet	310.0		84	80-120	8	20	
Cadmium	144	1.83	mg/kg wet	182.0		79	80-120	9	20	B-
Chromium	119	3.6	mg/kg wet	136.0		87	80-120	7	20	
Lead	97.5	18.2	mg/kg wet	115.0		85	80-120	11	20	
Selenium	125	18.2	mg/kg wet	150.0		83	80-120	7	20	
Silver	35.3	1.83	mg/kg wet	40.40		87	80-120	6	20	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CI32109 - 3050B										
Reference										
Lead	4060	31.3	mg/kg wet	4490		90	80-120			
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0483*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0466*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0462*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: Toluene-d8	*0.0451*		mg/kg wet	*0.05000*		*90*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130			
1,1,1-Trichloroethane	0.0534	0.0050	mg/kg wet	0.05000		107	70-130			
1,1,2,2-Tetrachloroethane	0.0503	0.0020	mg/kg wet	0.05000		101	70-130			
1,1,2-Trichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
1,1-Dichloroethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
1,1-Dichloroethene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
1,1-Dichloropropene	0.0560	0.0050	mg/kg wet	0.05000		112	70-130			
1,2,3-Trichlorobenzene	0.0552	0.0050	mg/kg wet	0.05000		110	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
1,2,3-Trichloropropane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
1,2,4-Trichlorobenzene	0.0556	0.0050	mg/kg wet	0.05000		111	70-130			
1,2,4-Trimethylbenzene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
1,2-Dibromo-3-Chloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dibromoethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
1,2-Dichlorobenzene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
1,2-Dichloroethane	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
1,2-Dichloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,3,5-Trimethylbenzene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
1,3-Dichlorobenzene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,3-Dichloropropane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130			
1,4-Dichlorobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
1,4-Dioxane	1.02	0.100	mg/kg wet	1.000		102	70-130			
2,2-Dichloropropane	0.0558	0.0050	mg/kg wet	0.05000		112	70-130			
2-Butanone	0.300	0.0100	mg/kg wet	0.2500		120	70-130			
2-Chlorotoluene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
2-Hexanone	0.288	0.0100	mg/kg wet	0.2500		115	70-130			
4-Chlorotoluene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
4-Isopropyltoluene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
4-Methyl-2-Pentanone	0.276	0.0100	mg/kg wet	0.2500		110	70-130			
Acetone	0.246	0.0100	mg/kg wet	0.2500		99	70-130			
Benzene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
Bromobenzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Bromochloromethane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
Bromodichloromethane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
Bromoform	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Bromomethane	0.0477	0.0100	mg/kg wet	0.05000		95	70-130			
Carbon Disulfide	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Carbon Tetrachloride	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Chlorobenzene	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
Chloroethane	0.0490	0.0100	mg/kg wet	0.05000		98	70-130			
Chloroform	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Chloromethane	0.0535	0.0100	mg/kg wet	0.05000		107	70-130			
cis-1,2-Dichloroethene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
cis-1,3-Dichloropropene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
Dibromochloromethane	0.0584	0.0020	mg/kg wet	0.05000		117	70-130			
Dibromomethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
Dichlorodifluoromethane	0.0454	0.0100	mg/kg wet	0.05000		91	70-130			
Diethyl Ether	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
Di-isopropyl ether	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
Ethyl tertiary-butyl ether	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
Ethylbenzene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Hexachlorobutadiene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Isopropylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Methyl tert-Butyl Ether	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Methylene Chloride	0.0527	0.0100	mg/kg wet	0.05000		105	70-130			
Naphthalene	0.0547	0.0050	mg/kg wet	0.05000		109	70-130			
n-Butylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
n-Propylbenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
sec-Butylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
Styrene	0.0574	0.0050	mg/kg wet	0.05000		115	70-130			
tert-Butylbenzene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Tertiary-amyl methyl ether	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Tetrachloroethene	0.0427	0.0050	mg/kg wet	0.05000		85	70-130			
Tetrahydrofuran	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
Toluene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
trans-1,2-Dichloroethene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
trans-1,3-Dichloropropene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Trichloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Trichlorofluoromethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Vinyl Chloride	0.0588	0.0100	mg/kg wet	0.05000		118	70-130			
Xylene O	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
Xylene P,M	0.113	0.0100	mg/kg wet	0.1000		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0499*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0498*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Toluene-d8	*0.0479*		mg/kg wet	*0.05000*		*96*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	1	25	
1,1,1-Trichloroethane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
1,1,2,2-Tetrachloroethane	0.0500	0.0020	mg/kg wet	0.05000		100	70-130	0.7	25	
1,1,2-Trichloroethane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	0.3	25	
1,1-Dichloroethane	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	0.9	25	
1,1-Dichloroethene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	2	25	
1,1-Dichloropropene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130	1	25	
1,2,3-Trichlorobenzene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130	0.7	25	
1,2,3-Trichloropropane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
1,2,4-Trichlorobenzene	0.0549	0.0050	mg/kg wet	0.05000		110	70-130	1	25	
1,2,4-Trimethylbenzene	0.0547	0.0050	mg/kg wet	0.05000		109	70-130	1	25	
1,2-Dibromo-3-Chloropropane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	4	25	
1,2-Dibromoethane	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
1,2-Dichlorobenzene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130	0.04	25	
1,2-Dichloroethane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	0.2	25	
1,2-Dichloropropane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	0.8	25	
1,3,5-Trimethylbenzene	0.0561	0.0050	mg/kg wet	0.05000		112	70-130	2	25	
1,3-Dichlorobenzene	0.0544	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
1,3-Dichloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130	1	25	
1,4-Dichlorobenzene	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
1,4-Dioxane	0.985	0.100	mg/kg wet	1.000		98	70-130	4	20	
2,2-Dichloropropane	0.0560	0.0050	mg/kg wet	0.05000		112	70-130	0.5	25	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
2-Butanone	0.294	0.0100	mg/kg wet	0.2500		117	70-130	2	25	
2-Chlorotoluene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	2	25	
2-Hexanone	0.279	0.0100	mg/kg wet	0.2500		112	70-130	3	25	
4-Chlorotoluene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	2	25	
4-Isopropyltoluene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130	2	25	
4-Methyl-2-Pentanone	0.267	0.0100	mg/kg wet	0.2500		107	70-130	4	25	
Acetone	0.239	0.0100	mg/kg wet	0.2500		96	70-130	3	25	
Benzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.8	25	
Bromobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	0.8	25	
Bromochloromethane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
Bromodichloromethane	0.0556	0.0050	mg/kg wet	0.05000		111	70-130	3	25	
Bromoform	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	0.6	25	
Bromomethane	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	3	25	
Carbon Disulfide	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Carbon Tetrachloride	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	0.2	25	
Chlorobenzene	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	2	25	
Chloroethane	0.0501	0.0100	mg/kg wet	0.05000		100	70-130	2	25	
Chloroform	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
Chloromethane	0.0548	0.0100	mg/kg wet	0.05000		110	70-130	2	25	
cis-1,2-Dichloroethene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	2	25	
cis-1,3-Dichloropropene	0.0572	0.0050	mg/kg wet	0.05000		114	70-130	1	25	
Dibromochloromethane	0.0587	0.0020	mg/kg wet	0.05000		117	70-130	0.5	25	
Dibromomethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	2	25	
Dichlorodifluoromethane	0.0465	0.0100	mg/kg wet	0.05000		93	70-130	2	25	
Diethyl Ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	1	25	
Di-isopropyl ether	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	0.1	25	
Ethyl tertiary-butyl ether	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	0.3	25	
Ethylbenzene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130	2	25	
Hexachlorobutadiene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	0.7	25	
Isopropylbenzene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
Methyl tert-Butyl Ether	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
Methylene Chloride	0.0528	0.0100	mg/kg wet	0.05000		106	70-130	0.2	25	
Naphthalene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
n-Butylbenzene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130	2	25	
n-Propylbenzene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
sec-Butylbenzene	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	2	25	
Styrene	0.0586	0.0050	mg/kg wet	0.05000		117	70-130	2	25	
tert-Butylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	3	25	
Tertiary-amyl methyl ether	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	0.5	25	
Tetrachloroethene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
Tetrahydrofuran	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
Toluene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130	2	25	
trans-1,2-Dichloroethene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	0.6	25	
trans-1,3-Dichloropropene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
Trichloroethene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	2	25	

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CI32337 - 5035										
Trichlorofluoromethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
Vinyl Chloride	0.0618	0.0100	mg/kg wet	0.05000		124	70-130	5	25	
Xylene O	0.0585	0.0050	mg/kg wet	0.05000		117	70-130	3	25	
Xylene P,M	0.115	0.0100	mg/kg wet	0.1000		115	70-130	2	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0497*		mg/kg wet	*0.05000*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0497*		mg/kg wet	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		mg/kg wet	*0.05000*		*97*	*70-130*			
Surrogate: Toluene-d8	*0.0485*		mg/kg wet	*0.05000*		*97*	*70-130*			
8081A Organochlorine Pesticides										
Batch CI32422 - 3546										
Blank										
4,4´-DDD	ND	0.0025	mg/kg wet							
4,4´-DDD [2C]	ND	0.0025	mg/kg wet							
4,4´-DDE	ND	0.0025	mg/kg wet							
4,4´-DDE [2C]	ND	0.0025	mg/kg wet							
4,4´-DDT	ND	0.0025	mg/kg wet							
4,4´-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
Chlordane (Total)	ND	0.0200	mg/kg wet							
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CI32422 - 3546										
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							
Toxaphene	ND	0.125	mg/kg wet							
Toxaphene [2C]	ND	0.125	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0125*		mg/kg wet	*0.01250*		*100*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0128*		mg/kg wet	*0.01250*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0118*		mg/kg wet	*0.01250*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0122*		mg/kg wet	*0.01250*		*98*	*30-150*			
LCS										
4,4´-DDD	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
4,4´-DDD [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
4,4´-DDE	0.0121	0.0025	mg/kg wet	0.01250		96	40-140			
4,4´-DDE [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
4,4´-DDT	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
4,4´-DDT [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Aldrin	0.0119	0.0025	mg/kg wet	0.01250		96	40-140			
Aldrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
alpha-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
alpha-BHC [2C]	0.0112	0.0025	mg/kg wet	0.01250		89	40-140			
alpha-Chlordane	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
alpha-Chlordane [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
beta-BHC	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
beta-BHC [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet				0-200			
delta-BHC	0.0113	0.0025	mg/kg wet	0.01250		90	40-140			
delta-BHC [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
Dieldrin	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Dieldrin [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endosulfan I	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endosulfan I [2C]	0.0122	0.0025	mg/kg wet	0.01250		97	40-140			
Endosulfan II	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Endosulfan II [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Endosulfan Sulfate	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Endosulfan Sulfate [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
Endrin	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
Endrin [2C]	0.0138	0.0025	mg/kg wet	0.01250		111	40-140			
Endrin Ketone	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			

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Client Name: Environmental Partners Group
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Quality Control Data

8081A Organochlorine Pesticides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch CI32422 - 3546										
Endrin Ketone [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
gamma-BHC (Lindane)	0.0119	0.0015	mg/kg wet	0.01250		95	40-140			
gamma-BHC (Lindane) [2C]	0.0122	0.0015	mg/kg wet	0.01250		97	40-140			
gamma-Chlordane	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
gamma-Chlordane [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Heptachlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Heptachlor [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Heptachlor Epoxide	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Heptachlor Epoxide [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Hexachlorobenzene	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
Hexachlorobenzene [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Methoxychlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Methoxychlor [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Surrogate: Decachlorobiphenyl	*0.0125*		mg/kg wet	*0.01250*		*100*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0129*		mg/kg wet	*0.01250*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0108*		mg/kg wet	*0.01250*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0117*		mg/kg wet	*0.01250*		*94*	*30-150*			
LCS Dup										
4,4´-DDD	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	0.6	30	
4,4´-DDD [2C]	0.0126	0.0025	mg/kg wet	0.01250		100	40-140	2	30	
4,4´-DDE	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	0.2	30	
4,4´-DDE [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	2	30	
4,4´-DDT	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	0.07	30	
4,4´-DDT [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	2	30	
Aldrin	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	0.7	30	
Aldrin [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	3	30	
alpha-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	0.06	30	
alpha-BHC [2C]	0.0113	0.0025	mg/kg wet	0.01250		91	40-140	1	30	
alpha-Chlordane	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	0.8	30	
alpha-Chlordane [2C]	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	2	30	
beta-BHC	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	0.02	30	
beta-BHC [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	3	30	
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet				0-200		200	
delta-BHC	0.0112	0.0025	mg/kg wet	0.01250		89	40-140	0.6	30	
delta-BHC [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	1	30	
Dieldrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	0.8	30	
Dieldrin [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	3	30	
Endosulfan I	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	1	30	
Endosulfan I [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	2	30	
Endosulfan II	0.0118	0.0025	mg/kg wet	0.01250		95	40-140	0.6	30	
Endosulfan II [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
Endosulfan Sulfate	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	0.5	30	
Endosulfan Sulfate [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140	3	30	
Endrin	0.0136	0.0025	mg/kg wet	0.01250		108	40-140	0.4	30	

CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CI32422 - 3546										
Endrin [2C]	0.0142	0.0025	mg/kg wet	0.01250		114	40-140	3	30	
Endrin Ketone	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	0.6	30	
Endrin Ketone [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
gamma-BHC (Lindane)	0.0119	0.0015	mg/kg wet	0.01250		95	40-140	0.3	30	
gamma-BHC (Lindane) [2C]	0.0123	0.0015	mg/kg wet	0.01250		99	40-140	1	30	
gamma-Chlordane	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	0.8	30	
gamma-Chlordane [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
Heptachlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	0.6	30	
Heptachlor [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	3	30	
Heptachlor Epoxide	0.0118	0.0025	mg/kg wet	0.01250		95	40-140	0.5	30	
Heptachlor Epoxide [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	2	30	
Hexachlorobenzene	0.0111	0.0025	mg/kg wet	0.01250		89	40-140	2	30	
Hexachlorobenzene [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140	3	30	
Methoxychlor	0.0114	0.0025	mg/kg wet	0.01250		91	40-140	0.9	30	
Methoxychlor [2C]	0.0121	0.0025	mg/kg wet	0.01250		96	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0120*		mg/kg wet	*0.01250*		*96*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0127*		mg/kg wet	*0.01250*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0114*		mg/kg wet	*0.01250*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0116*		mg/kg wet	*0.01250*		*93*	*30-150*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32606 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32606 - 3540										
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32606 - 3540										
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0285*		mg/kg wet	*0.02500*		*114*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0240*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0260*		mg/kg wet	*0.02500*		*104*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0306*		mg/kg wet	*0.02500*		*123*	*30-150*			
LCS										
Aroclor 1016	0.580	0.0500	mg/kg wet	0.5000		116	40-140			
Aroclor 1260	0.574	0.0500	mg/kg wet	0.5000		115	40-140			
Surrogate: Decachlorobiphenyl	*0.0293*		mg/kg wet	*0.02500*		*117*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0240*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0263*		mg/kg wet	*0.02500*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0296*		mg/kg wet	*0.02500*		*118*	*30-150*			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32606 - 3540										
LCS Dup										
Aroclor 1016	0.579	0.0500	mg/kg wet	0.5000		116	40-140	0.3	30	
Aroclor 1260	0.576	0.0500	mg/kg wet	0.5000		115	40-140	0.4	30	
Surrogate: Decachlorobiphenyl	*0.0293*		mg/kg wet	*0.02500*		*117*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0243*		mg/kg wet	*0.02500*		*97*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0265*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0299*		mg/kg wet	*0.02500*		*120*	*30-150*			
Batch CI32607 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32607 - 3540										
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CI32607 - 3540										
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0260*		mg/kg wet	*0.02500*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0251*		mg/kg wet	*0.02500*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0208*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0253*		mg/kg wet	*0.02500*		*101*	*30-150*			
LCS										
Aroclor 1016	0.461	0.0500	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.478	0.0500	mg/kg wet	0.5000		96	40-140			
Surrogate: Decachlorobiphenyl	*0.0258*		mg/kg wet	*0.02500*		*103*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0239*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0239*		mg/kg wet	*0.02500*		*96*	*30-150*			
LCS Dup										
Aroclor 1016	0.489	0.0500	mg/kg wet	0.5000		98	40-140	6	30	
Aroclor 1260	0.511	0.0500	mg/kg wet	0.5000		102	40-140	7	30	
Surrogate: Decachlorobiphenyl	*0.0269*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0249*		mg/kg wet	*0.02500*		*100*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0257*		mg/kg wet	*0.02500*		*103*	*30-150*			
8151A Chlorinated Herbicides										
Batch CI32326 - 3546										
Blank										
2,4,5-T	ND	0.010	mg/kg dry							

CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8151A Chlorinated Herbicides										
Batch CI32326 - 3546										
2,4,5-T [2C]	ND	0.010	mg/kg dry							
2,4,5-TP (Silvex)	ND	0.010	mg/kg dry							
2,4,5-TP (Silvex) [2C]	ND	0.010	mg/kg dry							
2,4-D	ND	0.047	mg/kg dry							
2,4-D [2C]	ND	0.047	mg/kg dry							
2,4-DB	ND	0.048	mg/kg dry							
2,4-DB [2C]	ND	0.048	mg/kg dry							
Dalapon	ND	0.046	mg/kg dry							
Dalapon [2C]	ND	0.046	mg/kg dry							
Dicamba	ND	0.009	mg/kg dry							
Dicamba [2C]	ND	0.009	mg/kg dry							
Dichlorprop	ND	0.047	mg/kg dry							
Dichlorprop [2C]	ND	0.047	mg/kg dry							
Dinoseb	ND	0.048	mg/kg dry							
Dinoseb [2C]	ND	0.048	mg/kg dry							
MCPA	ND	2.32	mg/kg dry							
MCPA [2C]	ND	2.32	mg/kg dry							
MCPP	ND	2.35	mg/kg dry							
MCPP [2C]	ND	2.35	mg/kg dry							
Surrogate: DCAA	*21.2*		mg/kg dry	*20.00*		*106*	*30-150*			
Surrogate: DCAA [2C]	*17.3*		mg/kg dry	*20.00*		*86*	*30-150*			
LCS										
2,4,5-T	0.014	0.010	mg/kg dry	0.01900		76	40-140			
2,4,5-T [2C]	0.014	0.010	mg/kg dry	0.01900		76	40-140			
2,4,5-TP (Silvex)	0.014	0.010	mg/kg dry	0.01900		72	40-140			
2,4,5-TP (Silvex) [2C]	0.014	0.010	mg/kg dry	0.01900		74	40-140			
2,4-D	0.140	0.047	mg/kg dry	0.1880		75	40-140			
2,4-D [2C]	0.143	0.047	mg/kg dry	0.1880		76	40-140			
2,4-DB	0.174	0.048	mg/kg dry	0.1900		92	40-140			
2,4-DB [2C]	0.145	0.048	mg/kg dry	0.1900		76	40-140			
Dalapon	0.208	0.046	mg/kg dry	0.4550		46	40-140			
Dalapon [2C]	0.215	0.046	mg/kg dry	0.4550		47	40-140			
Dicamba	0.015	0.009	mg/kg dry	0.01880		78	40-140			
Dicamba [2C]	0.014	0.009	mg/kg dry	0.01880		76	40-140			
Dichlorprop	0.184	0.047	mg/kg dry	0.1880		98	40-140			
Dichlorprop [2C]	0.171	0.047	mg/kg dry	0.1880		91	40-140			
Dinoseb	0.027	0.048	mg/kg dry	0.09500		29	10-100			
Dinoseb [2C]	0.024	0.048	mg/kg dry	0.09500		26	10-100			
MCPA	16.3	2.32	mg/kg dry	18.60		88	40-140			
MCPA [2C]	12.9	2.32	mg/kg dry	18.60		70	40-140			
MCPP	17.6	2.35	mg/kg dry	18.80		94	40-140			
MCPP [2C]	14.6	2.35	mg/kg dry	18.80		78	40-140			
Surrogate: DCAA	*22.8*		mg/kg dry	*20.00*		*114*	*30-150*			
Surrogate: DCAA [2C]	*18.0*		mg/kg dry	*20.00*		*90*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8151A Chlorinated Herbicides										
Batch CI32326 - 3546										
LCS Dup										
2,4,5-T	0.015	0.010	mg/kg dry	0.01900		80	40-140	5	30	
2,4,5-T [2C]	0.015	0.010	mg/kg dry	0.01900		80	40-140	5	30	
2,4,5-TP (Silvex)	0.015	0.010	mg/kg dry	0.01900		78	40-140	8	30	
2,4,5-TP (Silvex) [2C]	0.015	0.010	mg/kg dry	0.01900		78	40-140	5	30	
2,4-D	0.149	0.047	mg/kg dry	0.1880		79	40-140	6	30	
2,4-D [2C]	0.147	0.047	mg/kg dry	0.1880		78	40-140	3	30	
2,4-DB	0.194	0.048	mg/kg dry	0.1900		102	40-140	11	30	
2,4-DB [2C]	0.150	0.048	mg/kg dry	0.1900		79	40-140	4	30	
Dalapon	0.228	0.046	mg/kg dry	0.4550		50	40-140	9	30	
Dalapon [2C]	0.238	0.046	mg/kg dry	0.4550		52	40-140	10	30	
Dicamba	0.014	0.009	mg/kg dry	0.01880		72	40-140	8	30	
Dicamba [2C]	0.014	0.009	mg/kg dry	0.01880		76	40-140	0	30	
Dichlorprop	0.196	0.047	mg/kg dry	0.1880		104	40-140	6	30	
Dichlorprop [2C]	0.178	0.047	mg/kg dry	0.1880		95	40-140	4	30	
Dinoseb	0.032	0.048	mg/kg dry	0.09500		34	10-100	17	30	
Dinoseb [2C]	0.029	0.048	mg/kg dry	0.09500		30	10-100	17	30	
MCPA	15.2	2.32	mg/kg dry	18.60		82	40-140	7	30	
MCPA [2C]	12.6	2.32	mg/kg dry	18.60		68	40-140	3	30	
MCPP	15.9	2.35	mg/kg dry	18.80		85	40-140	10	30	
MCPP [2C]	14.5	2.35	mg/kg dry	18.80		77	40-140	1	30	
Surrogate: DCAA	*22.7*		mg/kg dry	*20.00*		*114*	*30-150*			
Surrogate: DCAA [2C]	*18.8*		mg/kg dry	*20.00*		*94*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
Blank										
1,1-Biphenyl	ND	0.333	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.65*		mg/kg wet	*3.333*		*80*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.19*		mg/kg wet	*5.000*		*104*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.99*		mg/kg wet	*5.000*		*80*	*30-130*			

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Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
Surrogate: 2-Fluorobiphenyl	*2.74*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: 2-Fluorophenol	*3.79*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.21*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: Phenol-d6	*3.85*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.51*		mg/kg wet	*3.333*		*105*	*30-130*			
LCS										
1,1-Biphenyl	2.80	1.33	mg/kg wet	3.333		84	40-140			
1,2,4-Trichlorobenzene	2.56	0.333	mg/kg wet	3.333		77	40-140			
1,2-Dichlorobenzene	2.44	0.333	mg/kg wet	3.333		73	40-140			
1,3-Dichlorobenzene	2.40	0.333	mg/kg wet	3.333		72	40-140			
1,4-Dichlorobenzene	2.50	0.333	mg/kg wet	3.333		75	40-140			
2,4,5-Trichlorophenol	2.99	0.333	mg/kg wet	3.333		90	30-130			
2,4,6-Trichlorophenol	2.90	0.333	mg/kg wet	3.333		87	30-130			
2,4-Dichlorophenol	2.59	0.333	mg/kg wet	3.333		78	30-130			
2,4-Dimethylphenol	2.49	0.333	mg/kg wet	3.333		75	30-130			
2,4-Dinitrophenol	2.35	1.67	mg/kg wet	3.333		70	30-130			
2,4-Dinitrotoluene	2.96	0.333	mg/kg wet	3.333		89	40-140			
2,6-Dinitrotoluene	2.93	0.333	mg/kg wet	3.333		88	40-140			
2-Chloronaphthalene	2.27	0.333	mg/kg wet	3.333		68	40-140			
2-Chlorophenol	2.56	0.333	mg/kg wet	3.333		77	30-130			
2-Methylnaphthalene	2.61	0.333	mg/kg wet	3.333		78	40-140			
2-Methylphenol	2.47	0.333	mg/kg wet	3.333		74	30-130			
2-Nitrophenol	2.64	0.333	mg/kg wet	3.333		79	30-130			
3,3´-Dichlorobenzidine	2.51	0.667	mg/kg wet	3.333		75	40-140			
3+4-Methylphenol	5.09	0.667	mg/kg wet	6.667		76	30-130			
4-Bromophenyl-phenylether	3.08	0.333	mg/kg wet	3.333		93	40-140			
4-Chloroaniline	2.05	0.667	mg/kg wet	3.333		61	40-140			
4-Nitrophenol	2.09	1.67	mg/kg wet	3.333		63	30-130			
Acenaphthene	2.52	0.333	mg/kg wet	3.333		76	40-140			
Acenaphthylene	2.61	0.333	mg/kg wet	3.333		78	40-140			
Acetophenone	2.44	0.667	mg/kg wet	3.333		73	40-140			
Aniline	1.91	1.67	mg/kg wet	3.333		57	40-140			
Anthracene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Azobenzene	2.35	0.333	mg/kg wet	3.333		71	40-140			
Benzo(a)anthracene	3.21	0.333	mg/kg wet	3.333		96	40-140			
Benzo(a)pyrene	2.91	0.167	mg/kg wet	3.333		87	40-140			
Benzo(b)fluoranthene	2.92	0.333	mg/kg wet	3.333		88	40-140			
Benzo(g,h,i)perylene	2.99	0.333	mg/kg wet	3.333		90	40-140			
Benzo(k)fluoranthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
bis(2-Chloroethoxy)methane	2.28	0.333	mg/kg wet	3.333		68	40-140			
bis(2-Chloroethyl)ether	2.09	0.333	mg/kg wet	3.333		63	40-140			
bis(2-chloroisopropyl)Ether	2.44	0.333	mg/kg wet	3.333		73	40-140			
bis(2-Ethylhexyl)phthalate	2.85	0.333	mg/kg wet	3.333		85	40-140			
Butylbenzylphthalate	2.79	0.333	mg/kg wet	3.333		84	40-140			
Chrysene	3.15	0.167	mg/kg wet	3.333		94	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
Dibenzo(a,h)Anthracene	2.91	0.167	mg/kg wet	3.333		87	40-140			
Dibenzofuran	2.61	0.333	mg/kg wet	3.333		78	40-140			
Diethylphthalate	2.74	0.333	mg/kg wet	3.333		82	40-140			
Dimethylphthalate	2.74	0.333	mg/kg wet	3.333		82	40-140			
Di-n-butylphthalate	2.69	0.333	mg/kg wet	3.333		81	40-140			
Di-n-octylphthalate	2.72	0.333	mg/kg wet	3.333		82	40-140			
Fluoranthene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Fluorene	2.65	0.333	mg/kg wet	3.333		79	40-140			
Hexachlorobenzene	3.14	0.333	mg/kg wet	3.333		94	40-140			
Hexachlorobutadiene	2.63	0.333	mg/kg wet	3.333		79	40-140			
Hexachloroethane	2.32	0.333	mg/kg wet	3.333		70	40-140			
Indeno(1,2,3-cd)Pyrene	3.21	0.333	mg/kg wet	3.333		96	40-140			
Isophorone	2.39	0.333	mg/kg wet	3.333		72	40-140			
Naphthalene	2.55	0.333	mg/kg wet	3.333		77	40-140			
Nitrobenzene	2.12	0.333	mg/kg wet	3.333		64	40-140			
N-Nitrosodimethylamine	2.12	0.333	mg/kg wet	3.333		64	40-140			
Pentachlorophenol	3.08	1.67	mg/kg wet	3.333		92	30-130			
Phenanthrene	2.86	0.333	mg/kg wet	3.333		86	40-140			
Phenol	2.38	0.333	mg/kg wet	3.333		71	30-130			
Pyrene	2.99	0.333	mg/kg wet	3.333		90	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.62*		mg/kg wet	*3.333*		*79*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.59*		mg/kg wet	*5.000*		*112*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.95*		mg/kg wet	*5.000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: 2-Fluorophenol	*3.83*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.31*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*3.83*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.74*		mg/kg wet	*3.333*		*112*	*30-130*			
LCS Dup										
1,1-Biphenyl	2.81	1.33	mg/kg wet	3.333		84	40-140	0.5	30	
1,2,4-Trichlorobenzene	2.61	0.333	mg/kg wet	3.333		78	40-140	2	30	
1,2-Dichlorobenzene	2.56	0.333	mg/kg wet	3.333		77	40-140	5	30	
1,3-Dichlorobenzene	2.49	0.333	mg/kg wet	3.333		75	40-140	4	30	
1,4-Dichlorobenzene	2.57	0.333	mg/kg wet	3.333		77	40-140	2	30	
2,4,5-Trichlorophenol	3.27	0.333	mg/kg wet	3.333		98	30-130	9	30	
2,4,6-Trichlorophenol	3.18	0.333	mg/kg wet	3.333		95	30-130	9	30	
2,4-Dichlorophenol	2.75	0.333	mg/kg wet	3.333		82	30-130	6	30	
2,4-Dimethylphenol	2.60	0.333	mg/kg wet	3.333		78	30-130	4	30	
2,4-Dinitrophenol	2.66	1.67	mg/kg wet	3.333		80	30-130	12	30	
2,4-Dinitrotoluene	3.20	0.333	mg/kg wet	3.333		96	40-140	8	30	
2,6-Dinitrotoluene	3.18	0.333	mg/kg wet	3.333		95	40-140	8	30	
2-Chloronaphthalene	2.65	0.333	mg/kg wet	3.333		80	40-140	16	30	
2-Chlorophenol	2.64	0.333	mg/kg wet	3.333		79	30-130	3	30	
2-Methylnaphthalene	2.74	0.333	mg/kg wet	3.333		82	40-140	5	30	
2-Methylphenol	2.60	0.333	mg/kg wet	3.333		78	30-130	5	30	

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Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
2-Nitrophenol	2.75	0.333	mg/kg wet	3.333		83	30-130	4	30	
3,3´-Dichlorobenzidine	2.75	0.667	mg/kg wet	3.333		83	40-140	9	30	
3+4-Methylphenol	5.31	0.667	mg/kg wet	6.667		80	30-130	4	30	
4-Bromophenyl-phenylether	3.45	0.333	mg/kg wet	3.333		104	40-140	11	30	
4-Chloroaniline	2.09	0.667	mg/kg wet	3.333		63	40-140	2	30	
4-Nitrophenol	2.40	1.67	mg/kg wet	3.333		72	30-130	14	30	
Acenaphthene	2.77	0.333	mg/kg wet	3.333		83	40-140	9	30	
Acenaphthylene	2.89	0.333	mg/kg wet	3.333		87	40-140	10	30	
Acetophenone	2.53	0.667	mg/kg wet	3.333		76	40-140	3	30	
Aniline	2.00	1.67	mg/kg wet	3.333		60	40-140	5	30	
Anthracene	3.11	0.333	mg/kg wet	3.333		93	40-140	7	30	
Azobenzene	2.51	0.333	mg/kg wet	3.333		75	40-140	7	30	
Benzo(a)anthracene	3.39	0.333	mg/kg wet	3.333		102	40-140	5	30	
Benzo(a)pyrene	3.12	0.167	mg/kg wet	3.333		93	40-140	7	30	
Benzo(b)fluoranthene	3.24	0.333	mg/kg wet	3.333		97	40-140	10	30	
Benzo(g,h,i)perylene	3.13	0.333	mg/kg wet	3.333		94	40-140	5	30	
Benzo(k)fluoranthene	3.02	0.333	mg/kg wet	3.333		91	40-140	3	30	
bis(2-Chloroethoxy)methane	2.41	0.333	mg/kg wet	3.333		72	40-140	5	30	
bis(2-Chloroethyl)ether	2.17	0.333	mg/kg wet	3.333		65	40-140	4	30	
bis(2-chloroisopropyl)Ether	2.64	0.333	mg/kg wet	3.333		79	40-140	8	30	
bis(2-Ethylhexyl)phthalate	3.00	0.333	mg/kg wet	3.333		90	40-140	5	30	
Butylbenzylphthalate	3.03	0.333	mg/kg wet	3.333		91	40-140	8	30	
Chrysene	3.25	0.167	mg/kg wet	3.333		98	40-140	3	30	
Dibenzo(a,h)Anthracene	2.93	0.167	mg/kg wet	3.333		88	40-140	0.6	30	
Dibenzofuran	2.88	0.333	mg/kg wet	3.333		87	40-140	10	30	
Diethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	8	30	
Dimethylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	8	30	
Di-n-butylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140	7	30	
Di-n-octylphthalate	2.87	0.333	mg/kg wet	3.333		86	40-140	5	30	
Fluoranthene	3.12	0.333	mg/kg wet	3.333		94	40-140	8	30	
Fluorene	2.89	0.333	mg/kg wet	3.333		87	40-140	9	30	
Hexachlorobenzene	3.47	0.333	mg/kg wet	3.333		104	40-140	10	30	
Hexachlorobutadiene	2.66	0.333	mg/kg wet	3.333		80	40-140	1	30	
Hexachloroethane	2.44	0.333	mg/kg wet	3.333		73	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	3.50	0.333	mg/kg wet	3.333		105	40-140	8	30	
Isophorone	2.47	0.333	mg/kg wet	3.333		74	40-140	3	30	
Naphthalene	2.60	0.333	mg/kg wet	3.333		78	40-140	2	30	
Nitrobenzene	2.14	0.333	mg/kg wet	3.333		64	40-140	1	30	
N-Nitrosodimethylamine	2.53	0.333	mg/kg wet	3.333		76	40-140	17	30	
Pentachlorophenol	3.18	1.67	mg/kg wet	3.333		96	30-130	3	30	
Phenanthrene	3.15	0.333	mg/kg wet	3.333		95	40-140	9	30	
Phenol	2.46	0.333	mg/kg wet	3.333		74	30-130	3	30	
Pyrene	3.07	0.333	mg/kg wet	3.333		92	40-140	3	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.62*		mg/kg wet	*3.333*		*79*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.81*		mg/kg wet	*5.000*		*116*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CI32312 - 3546										
Surrogate: 2-Chlorophenol-d4	*3.95*		mg/kg wet	*5.000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.87*		mg/kg wet	*3.333*		*86*	*30-130*			
Surrogate: 2-Fluorophenol	*3.86*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.31*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*3.85*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.53*		mg/kg wet	*3.333*		*106*	*30-130*			
Classical Chemistry										
Batch CI32316 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.9	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	0.1	2.0	mg/kg	10.00		1	0-44			
Batch CI32516 - General Preparation										
Reference										
Flashpoint	82		°F	81.00		101	98.15-101.85			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32314 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.24*		mg/kg wet	*2.000*		*62*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32314 - 3546										
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.54*		mg/kg wet	*2.000*		*77*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.52*		mg/kg wet	*2.000*		*76*	*40-140*			
Surrogate: O-Terphenyl	*1.31*		mg/kg wet	*2.000*		*65*	*40-140*			
LCS										
C19-C36 Aliphatics1	16.5	15.0	mg/kg wet	16.00		103	40-140			
C9-C18 Aliphatics1	10.7	15.0	mg/kg wet	12.00		90	40-140			
Decane (C10)	1.2	0.5	mg/kg wet	2.000		61	40-140			
Docosane (C22)	1.9	0.5	mg/kg wet	2.000		94	40-140			
Dodecane (C12)	1.4	0.5	mg/kg wet	2.000		70	40-140			
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		92	40-140			
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Hexadecane (C16)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Hexatriacontane (C36)	1.4	0.5	mg/kg wet	2.000		69	40-140			
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Nonane (C9)	1.0	0.5	mg/kg wet	2.000		48	30-140			
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Octadecane (C18)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		92	40-140			
Tetradecane (C14)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Triacontane (C30)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Surrogate: 1-Chlorooctadecane	*1.38*		mg/kg wet	*2.000*		*69*	*40-140*			
LCS										
2-Methylnaphthalene	1.29	0.20	mg/kg wet	2.000		65	40-140			
Acenaphthene	1.28	0.40	mg/kg wet	2.000		64	40-140			
Acenaphthylene	1.29	0.20	mg/kg wet	2.000		64	40-140			
Anthracene	1.25	0.40	mg/kg wet	2.000		62	40-140			
Benzo(a)anthracene	1.35	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)pyrene	1.42	0.40	mg/kg wet	2.000		71	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32314 - 3546										
Benzo(b)fluoranthene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Benzo(g,h,i)perylene	1.35	0.40	mg/kg wet	2.000		67	40-140			
Benzo(k)fluoranthene	1.34	0.40	mg/kg wet	2.000		67	40-140			
C11-C22 Unadjusted Aromatics1	26.9	15.0	mg/kg wet	34.00		79	40-140			
Chrysene	1.32	0.40	mg/kg wet	2.000		66	40-140			
Dibenzo(a,h)Anthracene	1.40	0.20	mg/kg wet	2.000		70	40-140			
Fluoranthene	1.35	0.40	mg/kg wet	2.000		68	40-140			
Fluorene	1.34	0.40	mg/kg wet	2.000		67	40-140			
Indeno(1,2,3-cd)Pyrene	1.49	0.40	mg/kg wet	2.000		74	40-140			
Naphthalene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Phenanthrene	1.34	0.40	mg/kg wet	2.000		67	40-140			
Pyrene	1.36	0.40	mg/kg wet	2.000		68	40-140			
Surrogate: 2-Bromonaphthalene	*1.66*		mg/kg wet	*2.000*		*83*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.67*		mg/kg wet	*2.000*		*83*	*40-140*			
Surrogate: O-Terphenyl	*1.43*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.8	15.0	mg/kg wet	16.00		105	40-140	2	25	
C9-C18 Aliphatics1	11.0	15.0	mg/kg wet	12.00		91	40-140	2	25	
Decane (C10)	1.3	0.5	mg/kg wet	2.000		66	40-140	8	25	
Docosane (C22)	2.0	0.5	mg/kg wet	2.000		100	40-140	6	25	
Dodecane (C12)	1.4	0.5	mg/kg wet	2.000		71	40-140	2	25	
Eicosane (C20)	2.0	0.5	mg/kg wet	2.000		99	40-140	7	25	
Hexacosane (C26)	2.0	0.5	mg/kg wet	2.000		98	40-140	7	25	
Hexadecane (C16)	1.9	0.5	mg/kg wet	2.000		93	40-140	7	25	
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		75	40-140	8	25	
Nonadecane (C19)	2.0	0.5	mg/kg wet	2.000		98	40-140	8	25	
Nonane (C9)	1.0	0.5	mg/kg wet	2.000		48	30-140	0.3	25	
Octacosane (C28)	1.9	0.5	mg/kg wet	2.000		97	40-140	7	25	
Octadecane (C18)	1.9	0.5	mg/kg wet	2.000		97	40-140	8	25	
Tetracosane (C24)	2.0	0.5	mg/kg wet	2.000		99	40-140	7	25	
Tetradecane (C14)	1.7	0.5	mg/kg wet	2.000		84	40-140	5	25	
Triacontane (C30)	1.9	0.5	mg/kg wet	2.000		95	40-140	8	25	
Surrogate: 1-Chlorooctadecane	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.33	0.20	mg/kg wet	2.000		67	40-140	3	25	
Acenaphthene	1.36	0.40	mg/kg wet	2.000		68	40-140	7	25	
Acenaphthylene	1.37	0.20	mg/kg wet	2.000		69	40-140	7	25	
Anthracene	1.35	0.40	mg/kg wet	2.000		67	40-140	7	25	
Benzo(a)anthracene	1.32	0.40	mg/kg wet	2.000		66	40-140	3	25	
Benzo(a)pyrene	1.43	0.40	mg/kg wet	2.000		71	40-140	0.4	25	
Benzo(b)fluoranthene	1.43	0.40	mg/kg wet	2.000		72	40-140	0.4	25	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CI32314 - 3546										
Benzo(g,h,i)perylene	1.34	0.40	mg/kg wet	2.000		67	40-140	0.7	25	
Benzo(k)fluoranthene	1.36	0.40	mg/kg wet	2.000		68	40-140	2	25	
C11-C22 Unadjusted Aromatics1	26.7	15.0	mg/kg wet	34.00		78	40-140	0.7	25	
Chrysene	1.31	0.40	mg/kg wet	2.000		66	40-140	0.3	25	
Dibenzo(a,h)Anthracene	1.47	0.20	mg/kg wet	2.000		73	40-140	5	25	
Fluoranthene	1.40	0.40	mg/kg wet	2.000		70	40-140	3	25	
Fluorene	1.38	0.40	mg/kg wet	2.000		69	40-140	3	25	
Indeno(1,2,3-cd)Pyrene	1.49	0.40	mg/kg wet	2.000		75	40-140	0.3	25	
Naphthalene	1.28	0.40	mg/kg wet	2.000		64	40-140	5	25	
Phenanthrene	1.39	0.40	mg/kg wet	2.000		70	40-140	4	25	
Pyrene	1.42	0.40	mg/kg wet	2.000		71	40-140	5	25	
Surrogate: 2-Bromonaphthalene	*1.63*		mg/kg wet	*2.000*		*82*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.70*		mg/kg wet	*2.000*		*85*	*40-140*			
Surrogate: O-Terphenyl	*1.48*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1309443

Notes and Definitions

Q	Calibration required quadratic regression (Q).
>	Greater than.
B-	Blank Spike recovery is below lower control limit (B-).
C-	Continuing Calibration recovery is below lower control limit (C-).
C+	Continuing Calibration recovery is above upper control limit (C+).
D	Diluted.
EL	Elevated Method Reporting Limits due to sample matrix (EL).
#	Modified result
P	Percent difference between primary and confirmation results exceeds 40% (P).
Z17	Temperature is within 23 +/-2 ºC.
S-	Surrogate recovery(ies) below lower control limit (S-).
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
U	Analyte included in the analysis, but not detected
XH	Peaks found in the retention time window for MCPA, MCPP did not confirm by GC/MS.
Z-09	ND
Z-10	Soil pH measured in water at 20.9 ºC.
LC	Lower value is used due to matrix interferences (LC).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1309443

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13090443
Date Project Due: 9/27/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **1.6**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes/No**
17. Were samples received intact? **Yes/No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.
LL VOCs frozen 9/20/13 @ 2200 per (AD).

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	2	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group

ESS Project ID: 13090443

20	Yes	4 oz Soil Jar	1	NP
21	Yes	40 ml - VOA	1	MeOH
21	Yes	40 ml - VOA	2	other

Completed By: [illegible] Date/Time: 9/20/13 2315

Reviewed By: [illegible] Date/Time: 9/23/13 1130

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1311020

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:00 pm, Nov 05, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

SAMPLE RECEIPT

The following samples were received on November 01, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1311020-01	29x3	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1311020-01**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: November 05, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29x3
Date Sampled: 11/01/13 09:00
Percent Solids: 90
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1311020
ESS Laboratory Sample ID: 1311020-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 11/1/13 15:45
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1221	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1232	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1242	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1248	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1254	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1260	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1262	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105
Aroclor 1268	ND (0.0539)		8082A		1	11/04/13 16:06		CJ33105

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ33105 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ33105 - 3540										
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ33105 - 3540										
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0271*		mg/kg wet	*0.02500*		*109*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0281*		mg/kg wet	*0.02500*		*112*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0259*		mg/kg wet	*0.02500*		*103*	*30-150*			
LCS										
Aroclor 1016	0.519	0.0500	mg/kg wet	0.5000		104	40-140			
Aroclor 1260	0.522	0.0500	mg/kg wet	0.5000		104	40-140			
Surrogate: Decachlorobiphenyl	*0.0282*		mg/kg wet	*0.02500*		*113*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0292*		mg/kg wet	*0.02500*		*117*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0264*		mg/kg wet	*0.02500*		*106*	*30-150*			
LCS Dup										
Aroclor 1016	0.557	0.0500	mg/kg wet	0.5000		111	40-140	7	30	
Aroclor 1260	0.545	0.0500	mg/kg wet	0.5000		109	40-140	4	30	
Surrogate: Decachlorobiphenyl	*0.0288*		mg/kg wet	*0.02500*		*115*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0298*		mg/kg wet	*0.02500*		*119*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0259*		mg/kg wet	*0.02500*		*104*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0290*		mg/kg wet	*0.02500*		*116*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1311020

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311020

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13110020
Date Project Due: 11/5/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **5.2**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP

Completed By: [signature] Date/Time: 11/1/13 1616
Reviewed By: [signature] Date/Time: 11/1/13 1624

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other 48hr
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from: (MA) RI CT NH NJ NY ME Other _____
Is this project for any of the following: (MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1311020

Electronic Deliverable Yes ___ No ___
Format: Excel ___ Access ___ PDF ___ Other _____

Co. Name: Environmental Partners Group
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr Suite 402
City: Quincy
State: MA
Zip: 02169
PO#:
Telephone #: (617) 657-0200
Fax #: (617) 657-0201
Email Address: cfe@envpartners.com

Write Required Analysis: PCBs

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCBs
1	11/1/2013	9:00	X		S	29x3	—	1	G	X

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 5.2 ice
Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
Sampled by: AMP
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Ann Marie Petrucci	11/1/13 1505	M. Mud	11/1/13 1505	M. Mud	11/1/13 1605	[signature]	11/1/13 1615
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1310566

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:19 pm, Oct 31, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

SAMPLE RECEIPT

The following samples were received on October 29, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1310566-01	P-2	Soil	8082A
1310566-02	29x	Soil	8082A
1310566-03	PLAWN	Soil	8082A
1310566-04	PWALK	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1310566-02 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310566-01 through 1310566-04**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 31, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-2
Date Sampled: 10/29/13 10:30
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310566
ESS Laboratory Sample ID: 1310566-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/30/13 15:41
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1221	ND (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1232	ND (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1242	ND (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1248	ND (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1254	**0.288** (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1260	**0.120** (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1262	ND (0.0573)		8082A		1	10/31/13 10:28		CJ32930
Aroclor 1268	ND (0.0573)		8082A		1	10/31/13 10:28		CJ32930

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*69 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*77 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29x
Date Sampled: 10/29/13 11:10
Percent Solids: 91
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310566
ESS Laboratory Sample ID: 1310566-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/30/13 15:41
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1221	ND (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1232	ND (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1242	ND (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1248	**8.08** (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1254	**18.5** (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1260	ND (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1262	ND (1.09)		8082A		20	10/31/13 10:09		CJ32930
Aroclor 1268	ND (1.09)		8082A		20	10/31/13 10:09		CJ32930

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: PLAWN
Date Sampled: 10/25/13 14:45
Percent Solids: 91
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310566
ESS Laboratory Sample ID: 1310566-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/30/13 15:41
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1221	ND (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1232	ND (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1242	ND (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1248	**0.162** (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1254	**0.516** (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1260	**0.178** (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1262	ND (0.0552)		8082A		1	10/31/13 10:24		CJ32930
Aroclor 1268	ND (0.0552)		8082A		1	10/31/13 10:24		CJ32930

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: PWALK
Date Sampled: 10/25/13 14:55
Percent Solids: 93
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310566
ESS Laboratory Sample ID: 1310566-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/30/13 15:41
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1221	ND (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1232	ND (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1242	ND (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1248	**0.195** (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1254	**0.633** (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1260	ND (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1262	ND (0.0525)		8082A		1	10/31/13 10:43		CJ32930
Aroclor 1268	ND (0.0525)		8082A		1	10/31/13 10:43		CJ32930

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32930 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32930 - 3540										
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32930 - 3540										
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0230*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0211*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
LCS										
Aroclor 1016	0.471	0.0500	mg/kg wet	0.5000		94	40-140			
Aroclor 1260	0.451	0.0500	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobiphenyl	*0.0233*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0217*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0234*		mg/kg wet	*0.02500*		*94*	*30-150*			
LCS Dup										
Aroclor 1016	0.517	0.0500	mg/kg wet	0.5000		103	40-140	9	30	
Aroclor 1260	0.466	0.0500	mg/kg wet	0.5000		93	40-140	3	30	
Surrogate: Decachlorobiphenyl	*0.0233*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0233*		mg/kg wet	*0.02500*		*93*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310566

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310566

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100566
Date Project Due: 10/30/13
Days For Project: 1 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **0.7**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP

Completed By: [signature] Date/Time: 10/28/13 1553
Reviewed By: [signature] Date/Time: 10/28/13 15:58

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other 24 hr 10/31/13
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID 1310566

Electronic Deliverable Yes ___ No ___
Format: Excel __ Access __ PDF __ Other ____

Co. Name: Environmental Partners Group	Project #:	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Drive Suite 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: 617-657-0200	Fax #: 617-657-0201	Email Address: cef@envpartners.com	

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCBs - 24 hr turnaround	EPH - 5 day
1	10/29/2013	1030	X		S	P-2	—	1	G	X	
2	10/29/2013	1110	X		S	29X	—	1	G	X	
	10/29/2013	1005	X		S	90X	—	1	G		X
3	10/25/2013	1445		X	S	PLAWN	—	1	G	X	
4	10/25/2013	1455		X	S	PWALK	—	1	G	X	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp 0.7 ICE KH

Internal Use Only
[✓] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Ann Marie Petrocca

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/29/13 1410	[signature]	10/29/13 14:10	[signature]	10/29/13 15:40	[signature]	10/29/13 1541
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1310514

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:30 am, Oct 28, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310514

SAMPLE RECEIPT

The following samples were received on October 25, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1310514-01	VAC 3	Wipe	8082
1310514-02	Filter 3	Wipe	8082

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310514

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310514

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310514

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310514-01 through 1310514-02**

Matrices: ( ) Ground Water/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air (X) Other: Wipes

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: Laurel Stoddard
Date: October 28, 2013
Printed Name: Laurel Stoddard
Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: VAC 3
Date Sampled: 10/25/13 15:15
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310514
ESS Laboratory Sample ID: 1310514-01
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 10/25/13 18:30

8082 Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1221	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1232	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1242	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1248	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1254	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1260	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1262	ND (1.00)		8082		1	10/26/13 18:01		CJ32518
Aroclor 1268	ND (1.00)		8082		1	10/26/13 18:01		CJ32518

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*97 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Filter 3
Date Sampled: 10/25/13 15:20
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310514
ESS Laboratory Sample ID: 1310514-02
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 10/25/13 18:30

8082 Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1221	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1232	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1242	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1248	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1254	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1260	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1262	ND (1.00)		8082		1	10/27/13 8:18		CJ32518
Aroclor 1268	ND (1.00)		8082		1	10/27/13 8:18		CJ32518

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*110 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*113 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*102 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310514

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CJ32518 - 3540C										
Blank										
Aroclor 1016	ND	1.00	ug/Wipe							
Aroclor 1221	ND	1.00	ug/Wipe							
Aroclor 1232	ND	1.00	ug/Wipe							
Aroclor 1242	ND	1.00	ug/Wipe							
Aroclor 1248	ND	1.00	ug/Wipe							
Aroclor 1254	ND	1.00	ug/Wipe							
Aroclor 1260	ND	1.00	ug/Wipe							
Aroclor 1262	ND	1.00	ug/Wipe							
Aroclor 1268	ND	1.00	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.426*		ug/Wipe	*0.5000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.412*		ug/Wipe	*0.5000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.366*		ug/Wipe	*0.5000*		*73*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.414*		ug/Wipe	*0.5000*		*83*	*30-150*			
LCS										
Aroclor 1016	9.10	1.00	ug/Wipe	10.00		91	40-140			
Aroclor 1260	8.63	1.00	ug/Wipe	10.00		86	40-140			
Surrogate: Decachlorobiphenyl	*0.425*		ug/Wipe	*0.5000*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.416*		ug/Wipe	*0.5000*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.412*		ug/Wipe	*0.5000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.428*		ug/Wipe	*0.5000*		*86*	*30-150*			
LCS Dup										
Aroclor 1016	9.31	1.00	ug/Wipe	10.00		93	40-140	2	50	
Aroclor 1260	9.23	1.00	ug/Wipe	10.00		92	40-140	7	50	
Surrogate: Decachlorobiphenyl	*0.459*		ug/Wipe	*0.5000*		*92*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.449*		ug/Wipe	*0.5000*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.417*		ug/Wipe	*0.5000*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.436*		ug/Wipe	*0.5000*		*87*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310514

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310514

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100514
Date Project Due: 10/29/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **0.3**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____
18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP

Completed By: [signature] Date/Time: 10/25/13 1825
Reviewed By: [signature] Date/Time: 10/25/13 18:20

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other 48 hrs / 2d
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 131051 4

Electronic Deliverable Yes X No ___
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners Group
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr Suite 402
City: Quincy State: MA Zip: 02169 PO#:
Telephone #: 617-657-0200 Fax #: 617-657-0201 Email Address: ccf@envpartners.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCBs
1	10/25/13	1515		X	W	VAC 3	Hex	1	G	1
2	10/25/13	1520		X	W	FILTER3	Hex	1	G	1

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 0.3 ICE RH

Internal Use Only
[✓] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: CCF

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/25/13 1550	[signature]	10/25/13 1550	[signature]	10/25/13 1800	[signature]	10/25/13 1823
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1310513

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 5:20 pm, Oct 28, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

SAMPLE RECEIPT

The following samples were received on October 25, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.
Samples 5x2, 5xx2, 6x2, and 52x3 were written on the COCs but not received.
Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1310513-01	33xx2	Soil	8082A
1310513-02	39xx3	Soil	8082A
1310513-03	40x3	Soil	8082A
1310513-04	18xx3	Soil	8082A
1310513-05	16x3	Soil	8082A
1310513-06	P-3	Soil	8082A
1310513-07	P-4	Soil	8082A
1310513-08	P-5	Soil	8082A
1310513-09	P-Paint	Soil	6010B, 8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

PROJECT NARRATIVE

Total Metals Solid
CJ32511-SRM1 **Standard Reference Material is biased low (R-).**
Lead (75% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310513-01 through 1310513-09**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air (X) Other: Solid

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 28, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 33xx2
Date Sampled: 10/25/13 12:35
Percent Solids: 89
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1221	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1232	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1242	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1248	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1254	**0.106** (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1260	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1262	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509
Aroclor 1268	ND (0.0546)		8082A	2	1	10/26/13 17:01		CJ32509

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*87 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 39xx3
Date Sampled: 10/25/13 14:50
Percent Solids: 91
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1221	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1232	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1242	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1248	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1254	**0.328** (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1260	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1262	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509
Aroclor 1268	ND (0.0545)		8082A	2	1	10/26/13 17:19		CJ32509

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*91 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 40x3
Date Sampled: 10/25/13 14:45
Percent Solids: 93
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1221	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1232	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1242	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1248	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1254	**0.144** (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1260	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1262	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509
Aroclor 1268	ND (0.0529)		8082A	2	1	10/26/13 17:38		CJ32509

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*105 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*104 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 18xx3
Date Sampled: 10/25/13 12:55
Percent Solids: 95
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1221	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1232	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1242	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1248	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1254	**0.380** (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1260	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1262	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509
Aroclor 1268	ND (0.0522)		8082A	2	1	10/26/13 17:57		CJ32509

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*101 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*104 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 16x3
Date Sampled: 10/25/13 13:10
Percent Solids: 89
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1221	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1232	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1242	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1248	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1254	**0.261** (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1260	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1262	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509
Aroclor 1268	ND (0.0542)		8082A	2	1	10/26/13 18:16		CJ32509

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-3
Date Sampled: 10/25/13 15:09
Percent Solids: 87
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1221	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1232	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1242	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1248	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1254	**0.0952** (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1260	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1262	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509
Aroclor 1268	ND (0.0571)		8082A	2	1	10/26/13 16:07		CJ32509

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-4
Date Sampled: 10/25/13 15:12
Percent Solids: 87
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1221	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1232	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1242	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1248	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1254	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1260	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1262	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509
Aroclor 1268	ND (0.0572)		8082A	2	1	10/26/13 16:26		CJ32509

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-5
Date Sampled: 10/25/13 15:15
Percent Solids: 87
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1221	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1232	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1242	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1248	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1254	**0.0762** (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1260	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1262	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509
Aroclor 1268	ND (0.0563)		8082A	2	1	10/26/13 16:45		CJ32509

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*116 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*104 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-Paint
Date Sampled: 10/25/13 09:50
Percent Solids: N/A

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-09
Sample Matrix: Soil
Units: mg/kg wet

Extraction Method: 3050B

Total Metals Solid

MA - RCS1

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**27300** (392)		6010B		20	SVD	10/28/13 15:30	0.51	100	CJ32511

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-Paint
Date Sampled: 10/25/13 09:50
Percent Solids: N/A
Initial Volume: 1.8
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310513
ESS Laboratory Sample ID: 1310513-09
Sample Matrix: Soil
Units: mg/kg wet
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1221	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1232	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1242	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1248	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1254	**1.51** (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1260	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1262	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509
Aroclor 1268	ND (0.556)		8082A	2	1	10/26/13 17:42		CJ32509

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*105 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CJ32511 - 3050B										
Blank										
Lead	ND	5.0	mg/kg wet							
LCS										
Lead	103	15.2	mg/kg wet	115.0		90	80-120			
LCS Dup										
Lead	96.8	15.2	mg/kg wet	115.0		84	80-120	6	20	
Reference										
Lead	3380	30.3	mg/kg wet	4490		75	80-120			R-
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32509 - 3540C										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32509 - 3540C										
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32509 - 3540C										
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0213*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0183*		mg/kg wet	*0.02500*		*73*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0207*		mg/kg wet	*0.02500*		*83*	*30-150*			
LCS										
Aroclor 1016	0.455	0.0500	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.432	0.0500	mg/kg wet	0.5000		86	40-140			
Surrogate: Decachlorobiphenyl	*0.0212*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0208*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0214*		mg/kg wet	*0.02500*		*86*	*30-150*			
LCS Dup										
Aroclor 1016	0.465	0.0500	mg/kg wet	0.5000		93	40-140	2	30	
Aroclor 1260	0.461	0.0500	mg/kg wet	0.5000		92	40-140	7	30	
Surrogate: Decachlorobiphenyl	*0.0229*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0224*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0209*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

Notes and Definitions

U	Analyte included in the analysis, but not detected
R-	Standard Reference Material is biased low (R-).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310513

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100513
Date Project Due: 10/29/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: **0.3**
   Iced With: **Ice**
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample * No
9. Is COC complete and correct? * No
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes | No
17. Were samples received intact? Yes | No
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Missing Jars?

see emails

Who was called?: Client By whom? Liz Ouk 10/28/13

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 10/25/13 1825
Reviewed By: _____ Date/Time: 10/25/13 1832

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other ~~24 hr~~ 48 hr
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA RI CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 1310513

Electronic Deliverable Yes ✓ No ___
Format: Excel ✓ Access ___ PDF ✓ Other ___

Co. Name	Environmental Partners Group
Project #	
Project Name (20 Char. or less)	Strawberry Hill
Contact Person	Carter Fahy
Address	1900 Crown Colony Dr. Suite 402
City	Quincy
State	MA
Zip	02169
PO#	
Telephone #	(617) 657-0200
Fax #	(617) 657-0201
Email Address	ccf@envpartners.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCBs												
1	10/25/13	1235	X			33XX 2	–	1	G	X												
2	10/25/13	1450	X			39XX 3	–	1	G	X												
3	10/25/13	1445	X			40X3	–	1	G	X												
	~~10/25/13~~		~~X~~			~~40XX~~		~~1~~	~~G~~	~~X~~												
~~4~~	10/25/13	1240	X			5X2	–	1	G	X	Missing											
~~5~~	10/25/13	1245	X			5XX2	–	1	G	X	Missing											
	10/25/13	1248	X			6X2	–	1	G	X	Missing											
4	10/25/13	1255	X			18XX3	–	1	G	X												
	10/25/13	1305	X			82X3	–	1	G	X	Missing											
~~5~~ 6	10/25/13	1310	X			16X3	–	1	G	X												

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp 0.3 ICE KH

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: CCF

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/25/13 15:50	[signature]	10-25-13 15:50	[signature]	10-25-13 18:00	[signature]	10/25/13 18:00
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 4 of 4 (2 of 2)

Turn Time RUSH Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310573

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: EPG	Project #:	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Dr. Ste 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: 617-657-0254	Fax #:	Email Address: cct@enupartners.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	Lead											
6	10/25/13	1509	X		S	P-3	–	1	G	X												
7	10/25/13	1512	X		S	P-4	–	1	G	X												
8	10/25/13	1515	X		S	P-5	–	1	G	X												
9	10/25/13	09:50		X		P-Paint	–	1	G	X	X											

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 0.3 ICE Rtt

Internal Use Only
[✓] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: CCF

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/25/13 1550	[signature]	10/25/13 15:54	[signature]	10/25/13 18:00	[signature]	10/25/13 18:10
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1310512

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:24 am, Oct 28, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

SAMPLE RECEIPT

The following samples were received on October 25, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1310512-01	12x2	Soil	8082A
1310512-02	13x2	Soil	8082A
1310512-03	27x2	Soil	8082A
1310512-04	27xx2	Soil	8082A
1310512-05	25xx2	Soil	8082A
1310512-06	54x3	Soil	8082A
1310512-07	14x	Soil	8082A
1310512-08	29xx2	Soil	8082A
1310512-09	15x3	Soil	8082A
1310512-10	33x3	Soil	8082A
1310512-11	Dup 1	Soil	8082A
1310512-12	P-1	Soil	8082A
1310512-13	P-2	Soil	8082A
1310512-14	2x2	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310512-01 through 1310512-14**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes (X) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 28, 2013
Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12x2
Date Sampled: 10/25/13 13:16
Percent Solids: 96
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1221	ND (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1232	ND (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1242	ND (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1248	**0.330** (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1254	**0.500** (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1260	ND (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1262	ND (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519
Aroclor 1268	ND (0.0531)		8082A	2	1	10/27/13 0:20		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 13x2
Date Sampled: 10/25/13 13:17
Percent Solids: 91
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1221	ND (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1232	ND (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1242	ND (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1248	**0.253** (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1254	**0.412** (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1260	ND (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1262	ND (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519
Aroclor 1268	ND (0.0566)		8082A	2	1	10/27/13 0:40		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*125 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 27x2
Date Sampled: 10/25/13 13:18
Percent Solids: 91
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1221	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1232	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1242	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1248	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1254	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1260	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1262	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519
Aroclor 1268	ND (0.0558)		8082A	2	1	10/27/13 0:58		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*115 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*122 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 27xx2
Date Sampled: 10/25/13 13:19
Percent Solids: 90
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1221	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1232	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1242	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1248	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1254	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1260	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1262	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519
Aroclor 1268	ND (0.0575)		8082A	2	1	10/27/13 1:17		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*109 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*109 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 25xx2
Date Sampled: 10/25/13 13:21
Percent Solids: 93
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1221	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1232	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1242	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1248	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1254	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1260	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1262	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519
Aroclor 1268	ND (0.0547)		8082A	2	1	10/27/13 1:37		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54x3
Date Sampled: 10/25/13 14:00
Percent Solids: 90
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1221	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1232	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1242	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1248	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1254	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1260	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1262	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519
Aroclor 1268	ND (0.0580)		8082A	2	1	10/27/13 1:56		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*110 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*133 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*97 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 14x
Date Sampled: 10/25/13 13:20
Percent Solids: 89
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1221	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1232	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1242	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1248	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1254	**0.0758** (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1260	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1262	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519
Aroclor 1268	ND (0.0572)		8082A	2	1	10/27/13 1:15		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*115 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*125 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*108 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29xx2
Date Sampled: 10/25/13 14:05
Percent Solids: 89
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1221	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1232	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1242	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1248	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1254	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1260	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1262	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519
Aroclor 1268	ND (0.0583)		8082A	2	1	10/26/13 13:54		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 15x3
Date Sampled: 10/25/13 13:40
Percent Solids: 78
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1221	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1232	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1242	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1248	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1254	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1260	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1262	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519
Aroclor 1268	ND (0.0654)		8082A	2	1	10/26/13 14:12		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 33x3
Date Sampled: 10/25/13 13:45
Percent Solids: 91
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1221	ND (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1232	ND (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1242	ND (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1248	**0.116** (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1254	**0.341** (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1260	ND (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1262	ND (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519
Aroclor 1268	ND (0.0555)		8082A	2	1	10/26/13 14:31		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Dup 1
Date Sampled: 10/25/13 13:50
Percent Solids: 91
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1221	ND (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1232	ND (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1242	ND (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1248	**0.137** (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1254	**0.369** (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1260	ND (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1262	ND (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519
Aroclor 1268	ND (0.0567)		8082A	2	1	10/26/13 14:50		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*109 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-1
Date Sampled: 10/25/13 14:46
Percent Solids: 86
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1221	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1232	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1242	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1248	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1254	**0.218** (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1260	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1262	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519
Aroclor 1268	ND (0.0593)		8082A	2	1	10/26/13 15:07		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*102 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*110 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: P-2
Date Sampled: 10/25/13 15:05
Percent Solids: 86
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1221	ND (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1232	ND (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1242	ND (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1248	**0.376** (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1254	**0.987** (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1260	ND (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1262	ND (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519
Aroclor 1268	ND (0.0593)		8082A	2	1	10/26/13 21:06		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*126 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*132 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 2x2
Date Sampled: 10/25/13 13:15
Percent Solids: 95
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310512
ESS Laboratory Sample ID: 1310512-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/25/13 18:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1221	ND (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1232	ND (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1242	ND (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1248	ND (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1254	**0.208** (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1260	**0.127** (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1262	ND (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519
Aroclor 1268	ND (0.0550)		8082A	2	1	10/26/13 15:26		CJ32519

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*87 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32519 - 3540C										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32519 - 3540C										
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32519 - 3540C										
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0204*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0197*		mg/kg wet	*0.02500*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0215*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0232*		mg/kg wet	*0.02500*		*93*	*30-150*			
LCS										
Aroclor 1016	0.467	0.0500	mg/kg wet	0.5000		93	40-140			
Aroclor 1260	0.464	0.0500	mg/kg wet	0.5000		93	40-140			
Surrogate: Decachlorobiphenyl	*0.0239*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0222*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0206*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0214*		mg/kg wet	*0.02500*		*86*	*30-150*			
LCS Dup										
Aroclor 1016	0.501	0.0500	mg/kg wet	0.5000		100	40-140	7	30	
Aroclor 1260	0.508	0.0500	mg/kg wet	0.5000		102	40-140	9	30	
Surrogate: Decachlorobiphenyl	*0.0265*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0246*		mg/kg wet	*0.02500*		*98*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0232*		mg/kg wet	*0.02500*		*93*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310512

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310512

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100512
Date Project Due: 10/29/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: **0.3**
   Iced With: **Ice**
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample * No
9. Is COC complete and correct? * No
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes|No
17. Were samples received intact? Yes|No
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Missing jars?

see emails

Who was called?: client

By whom? Liz Ouk 10/28/13

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 10/28/13 1825
Reviewed By: _____ Date/Time: 10/28/13 18:30

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other 48 hr
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from: (MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following: (MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310512

Electronic Deliverable Yes ☒ No ___
Format: Excel ☒ Access ___ PDF ☒ Other _____

Co. Name: Environmental Partners Group	Project #:	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy		Address: 1900 Crown Colony Dr Suite 402	
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: (617) 657-0200	Fax #: (617) 657-0201	Email Address: ccf@envpartners.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCBs	Write Required Analysis
14 ~~13~~	10/25/13	1315	X		S	2X2	–	1	G	X	~~Mitrg~~
1	10/25/13	1316	X		S	12X2	–	1	G	X	
2	10/25/13	1317	X		S	13X2	–	1	G	X	
3	10/25/13	1318	X		S	27X2	–	1	G	X	
4	10/25/13	1319	X		S	27XX2	–	1	G	X	
5	10/25/13	1321	X		S	25XX2	–	1	G	X	
6	10/25/13	1400	X		S	~~28~~ 54X3	–	1	G	X	
7	10/25/13	1320	X		S	14X	–	1	G	X	
8	10/25/13	1405	X		S	29XX2	–	1	G	X	
9	10/25/13	1407	X		S	~~31XX~~	–	1	G	X	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 0.3 ICE KH

Internal Use Only
[✓] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: CCF

Comments: 15:50 KH

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/25/13 1550		10/25/13 15:50 KH		10-25-13 18:00		10/25/13 18:10
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other 24 hr
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from: MA RI CT NH NJ NY ME Other _____
Is this project for any of the following: MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310512

Electronic Deliverable Yes ✓ No ___
Format: Excel ✓ Access ___ PDF ✓ Other _____

Co. Name: Environmental Partners Group
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr Suite 402
City: Quincy State: MA Zip: 01269 PO#:
Telephone #: (617) 657-0200 Fax #: (617) 657-0201 Email Address: cfe@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB		
	10/25/13	1330	X			29 x 3	–	1	G	X		Missing
		1335				4x	–	1	G	X		Missing
9/10 9		1340				15x3	–	1	G	X		
1/10		1345				33 x3	–	1	G	X		
12/11	10/25/13	1350				Dup 1	–	1	G	X		
		1515				P- Lawn	–	1	G	X		Missing
9/		1518				P- Walk	–	1	G	X		Missing
1/2		1520		X		P- Paint	–	1	G	X		Missing
13/12		1446				P-1	–	1	G	X		
14/13		1505				P-2	–	1	G	X		

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 0.3 ICE KT

Internal Use Only
[✓] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
Sampled by: CCF
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/25/13 1550		10/25/13 15:50		10/25/13 18:00		10/25/13 18:0
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1310455

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 9:32 am, Oct 25, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310455

SAMPLE RECEIPT

The following samples were received on October 23, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1310455-01	16x2	Soil	8082A
1310455-02	15x2	Soil	8082A
1310455-03	52x2	Soil	8082A
1310455-04	30x2	Soil	8082A
1310455-05	54x2	Soil	8082A
1310455-06	55x2	Soil	8082A
1310455-07	31x2	Soil	8082A
1310455-08	53x2	Soil	8082A
1310455-09	34x2	Soil	8082A
1310455-10	57x2	Soil	8082A
1310455-11	29x2	Soil	8082A
1310455-12	32x2	Soil	6010B, 7471B, 8082A
1310455-13	33x2	Soil	8082A
1310455-14	17x2	Soil	8082A
1310455-15	18x	Soil	8082A
1310455-16	18xx2	Soil	8082A
1310455-17	0x	Soil	8082A
1310455-18	23x	Soil	8082A
1310455-19	11xx	Soil	8082A
1310455-20	11yy	Soil	8082A
1310455-21	11x	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310455

1310455-22	11zz	Soil	8082A
1310455-23	23xx	Soil	8082A
1310455-24	Dup	Soil	8082A
1310455-25	12xx	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310455

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1310455-02 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1310455-03 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1310455-11 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1310455-14 **Surrogate recovery(ies) above upper control limit (S+).**
Decachlorobiphenyl [2C] (168% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310455

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310455

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310455-01 through 1310455-25**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 25, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 16x2
Date Sampled: 10/22/13 14:00
Percent Solids: 83
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0612)		8082A		1	10/24/13 13:20		CJ32204
Aroclor 1221	ND (0.0612)		8082A		1	10/24/13 13:20		CJ32204
Aroclor 1232	ND (0.0612)		8082A		1	10/24/13 13:20		CJ32204
Aroclor 1242	ND (0.0612)		8082A		1	10/24/13 13:20		CJ32204
Aroclor 1248	**2.05** (0.306)		8082A		5	10/24/13 16:10		CJ32204
Aroclor 1254	**4.05** (0.306)		8082A		5	10/24/13 16:10		CJ32204
Aroclor 1260	ND (0.0612)		8082A		1	10/24/13 13:20		CJ32204
Aroclor 1262	ND (0.0612)		8082A		1	10/24/13 13:20		CJ32204
Aroclor 1268	ND (0.0612)		8082A		1	10/24/13 13:20		CJ32204

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 15x2
Date Sampled: 10/22/13 14:05
Percent Solids: 84
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1221	ND (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1232	ND (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1242	ND (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1248	**7.80** (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1254	**16.8** (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1260	ND (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1262	ND (1.21)		8082A		20	10/24/13 15:51		CJ32204
Aroclor 1268	ND (1.21)		8082A		20	10/24/13 15:51		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 52x2
Date Sampled: 10/22/13 14:10
Percent Solids: 89
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1221	ND (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1232	ND (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1242	ND (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1248	**11.3** (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1254	**28.9** (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1260	ND (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1262	ND (2.95)		8082A		50	10/24/13 15:52		CJ32204
Aroclor 1268	ND (2.95)		8082A		50	10/24/13 15:52		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 30x2
Date Sampled: 10/22/13 14:15
Percent Solids: 87
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1221	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1232	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1242	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1248	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1254	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1260	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1262	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204
Aroclor 1268	ND (0.0565)		8082A		1	10/24/13 15:13		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*108 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*115 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54x2
Date Sampled: 10/22/13 14:20
Percent Solids: 95
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0511)		8082A		1	10/24/13 14:36		CJ32204
Aroclor 1221	ND (0.0511)		8082A		1	10/24/13 14:36		CJ32204
Aroclor 1232	ND (0.0511)		8082A		1	10/24/13 14:36		CJ32204
Aroclor 1242	ND (0.0511)		8082A		1	10/24/13 14:36		CJ32204
Aroclor 1248	**1.34** (0.256)		8082A		5	10/24/13 14:36		CJ32204
Aroclor 1254	**3.66** (0.256)		8082A		5	10/24/13 14:36		CJ32204
Aroclor 1260	ND (0.0511)		8082A		1	10/24/13 14:36		CJ32204
Aroclor 1262	ND (0.0511)		8082A		1	10/24/13 14:36		CJ32204
Aroclor 1268	ND (0.0511)		8082A		1	10/24/13 14:36		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*91 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*128 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 55x2
Date Sampled: 10/22/13 14:25
Percent Solids: 92
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1221	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1232	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1242	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1248	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1254	**0.213** (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1260	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1262	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319
Aroclor 1268	ND (0.0560)		8082A		1	10/24/13 10:30		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 31x2
Date Sampled: 10/22/13 14:30
Percent Solids: 85
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1221	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1232	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1242	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1248	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1254	**0.0796** (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1260	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1262	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319
Aroclor 1268	ND (0.0603)		8082A		1	10/24/13 10:49		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*106 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 53x2
Date Sampled: 10/22/13 14:35
Percent Solids: 89
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1221	ND (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1232	ND (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1242	ND (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1248	**0.116** (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1254	**0.188** (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1260	ND (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1262	ND (0.0584)		8082A		1	10/24/13 11:08		CJ32319
Aroclor 1268	ND (0.0584)		8082A		1	10/24/13 11:08		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 34x2
Date Sampled: 10/22/13 14:40
Percent Solids: 93
Initial Volume: 20.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1221	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1232	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1242	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1248	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1254	**0.142** (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1260	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1262	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319
Aroclor 1268	ND (0.0526)		8082A		1	10/24/13 11:27		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 57x2
Date Sampled: 10/22/13 14:45
Percent Solids: 96
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1221	ND (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1232	ND (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1242	ND (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1248	**0.0768** (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1254	**0.223** (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1260	ND (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1262	ND (0.0533)		8082A		1	10/24/13 10:12		CJ32319
Aroclor 1268	ND (0.0533)		8082A		1	10/24/13 10:12		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*85 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*91 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29x2
Date Sampled: 10/22/13 14:50
Percent Solids: 89
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1221	ND (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1232	ND (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1242	ND (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1248	**3.07** (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1254	**9.03** (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1260	ND (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1262	ND (1.17)		8082A		20	10/24/13 14:56		CJ32319
Aroclor 1268	ND (1.17)		8082A		20	10/24/13 14:56		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 32x2
Date Sampled: 10/22/13 14:55
Percent Solids: 81

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.8)		6010B		1	SVD	10/23/13 20:08	2.17	100	CJ32335
Barium	**48.5** (2.8)		6010B		1	SVD	10/23/13 20:08	2.17	100	CJ32335
Cadmium	ND (0.57)		6010B		1	SVD	10/23/13 20:08	2.17	100	CJ32335
Chromium	**14.9** (1.1)		6010B		1	SVD	10/23/13 20:08	2.17	100	CJ32335
Lead	**93.2** (5.7)		6010B		1	SVD	10/23/13 20:08	2.17	100	CJ32335
Mercury	**0.131** (0.039)		7471B		1	KJK	10/23/13 19:40	0.62	40	CJ32336
Selenium	ND (5.7)		6010B		1	SVD	10/23/13 20:08	2.17	100	CJ32335
Silver	ND (0.57)		6010B		1	SVD	10/23/13 20:08	2.17	100	CJ32335

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 32x2
Date Sampled: 10/22/13 14:55
Percent Solids: 81
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1221	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1232	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1242	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1248	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1254	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1260	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1262	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319
Aroclor 1268	ND (0.0623)		8082A		1	10/24/13 10:50		CJ32319

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*117 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 33x2
Date Sampled: 10/22/13 15:00
Percent Solids: 93
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0529)		8082A		1	10/24/13 11:09		CJ32319
Aroclor 1221	ND (0.0529)		8082A		1	10/24/13 11:09		CJ32319
Aroclor 1232	ND (0.0529)		8082A		1	10/24/13 11:09		CJ32319
Aroclor 1242	ND (0.0529)		8082A		1	10/24/13 11:09		CJ32319
Aroclor 1248	**1.56** (0.264)		8082A		5	10/24/13 16:29		CJ32319
Aroclor 1254	**3.28** (0.264)		8082A		5	10/24/13 16:29		CJ32319
Aroclor 1260	ND (0.0529)		8082A		1	10/24/13 11:09		CJ32319
Aroclor 1262	ND (0.0529)		8082A		1	10/24/13 11:09		CJ32319
Aroclor 1268	ND (0.0529)		8082A		1	10/24/13 11:09		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 17x2
Date Sampled: 10/22/13 15:05
Percent Solids: 92
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1221	ND (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1232	ND (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1242	ND (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1248	**0.154** (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1254	**0.565** (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1260	ND (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1262	ND (0.0562)		8082A		1	10/24/13 11:28		CJ32319
Aroclor 1268	ND (0.0562)		8082A		1	10/24/13 11:28		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*168 %*	*S+*	*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 18x
Date Sampled: 10/22/13 15:10
Percent Solids: 95
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1221	ND (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1232	ND (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1242	ND (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1248	**0.179** (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1254	**0.422** (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1260	ND (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1262	ND (0.0537)		8082A		1	10/24/13 11:47		CJ32319
Aroclor 1268	ND (0.0537)		8082A		1	10/24/13 11:47		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*95 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 18xx2
Date Sampled: 10/22/13 15:15
Percent Solids: 96
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-16
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319
Aroclor 1221	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319
Aroclor 1232	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319
Aroclor 1242	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319
Aroclor 1248	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319
Aroclor 1254	**1.49** (0.256)		8082A		5	10/24/13 16:30		CJ32319
Aroclor 1260	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319
Aroclor 1262	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319
Aroclor 1268	ND (0.0512)		8082A		1	10/24/13 12:06		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*101 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*110 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 0x
Date Sampled: 10/22/13 15:20
Percent Solids: 94
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1221	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1232	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1242	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1248	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1254	**0.0919** (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1260	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1262	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319
Aroclor 1268	ND (0.0538)		8082A		1	10/24/13 9:16		CJ32319

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 23x
Date Sampled: 10/22/13 15:25
Percent Solids: 89
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1221	ND (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1232	ND (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1242	ND (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1248	**0.115** (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1254	**0.256** (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1260	ND (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1262	ND (0.0565)		8082A		1	10/24/13 9:35		CJ32319
Aroclor 1268	ND (0.0565)		8082A		1	10/24/13 9:35		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*73 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*86 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 11xx
Date Sampled: 10/22/13 15:30
Percent Solids: 91
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1221	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1232	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1242	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1248	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1254	**0.0790** (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1260	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1262	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1268	ND (0.0567)		8082A		1	10/24/13 12:43		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*97 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 11yy
Date Sampled: 10/22/13 15:35
Percent Solids: 95
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-20
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1221	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1232	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1242	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1248	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1254	**0.0808** (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1260	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1262	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319
Aroclor 1268	ND (0.0551)		8082A		1	10/24/13 15:15		CJ32319

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*102 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 11x
Date Sampled: 10/22/13 15:40
Percent Solids: 98
Initial Volume: 19
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-21
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1221	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1232	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1242	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1248	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1254	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1260	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1262	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319
Aroclor 1268	ND (0.0538)		8082A		1	10/24/13 11:46		CJ32319

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*72 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 11zz
Date Sampled: 10/22/13 15:45
Percent Solids: 93
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-22
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1221	ND (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1232	ND (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1242	ND (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1248	**0.132** (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1254	**0.308** (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1260	ND (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1262	ND (0.0520)		8082A		1	10/24/13 12:05		CJ32319
Aroclor 1268	ND (0.0520)		8082A		1	10/24/13 12:05		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 23xx
Date Sampled: 10/22/13 15:50
Percent Solids: 95
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-23
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1221	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1232	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1242	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1248	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1254	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1260	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1262	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319
Aroclor 1268	ND (0.0517)		8082A		1	10/24/13 12:24		CJ32319

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*75 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Dup
Date Sampled: 10/22/13 15:55
Percent Solids: 90
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-24
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1221	ND (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1232	ND (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1242	ND (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1248	**0.0678** (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1254	**0.137** (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1260	ND (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1262	ND (0.0552)		8082A		1	10/24/13 12:43		CJ32319
Aroclor 1268	ND (0.0552)		8082A		1	10/24/13 12:43		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12xx
Date Sampled: 10/22/13 16:00
Percent Solids: 92
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310455
ESS Laboratory Sample ID: 1310455-25
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/23/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1221	ND (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1232	ND (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1242	ND (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1248	**0.352** (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1254	**0.547** (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1260	ND (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1262	ND (0.0538)		8082A		1	10/24/13 13:01		CJ32319
Aroclor 1268	ND (0.0538)		8082A		1	10/24/13 13:01		CJ32319

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310455

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CJ32335 - 3050B										
Blank										
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
LCS										
Arsenic	85.5	9.6	mg/kg wet	99.60		86	80-120			
Barium	280	9.6	mg/kg wet	310.0		90	80-120			
Cadmium	152	1.93	mg/kg wet	182.0		84	80-120			
Chromium	126	3.8	mg/kg wet	136.0		93	80-120			
Lead	114	19.2	mg/kg wet	115.0		99	80-120			
Selenium	128	19.2	mg/kg wet	150.0		85	80-120			
Silver	36.4	1.93	mg/kg wet	40.40		90	80-120			
LCS Dup										
Arsenic	81.6	9.8	mg/kg wet	99.60		82	80-120	5	20	
Barium	269	9.8	mg/kg wet	310.0		87	80-120	4	20	
Cadmium	148	1.97	mg/kg wet	182.0		82	80-120	3	20	
Chromium	122	3.9	mg/kg wet	136.0		90	80-120	3	20	
Lead	100	19.6	mg/kg wet	115.0		87	80-120	13	20	
Selenium	124	19.6	mg/kg wet	150.0		83	80-120	3	20	
Silver	35.9	1.97	mg/kg wet	40.40		89	80-120	1	20	
Batch CJ32336 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	21.0	2.87	mg/kg wet	19.90		105	80-120			
LCS Dup										
Mercury	20.9	2.96	mg/kg wet	19.90		105	80-120	0.6	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32204 - 3540C										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32204 - 3540C										
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							

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Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32204 - 3540C										
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32204 - 3540C										
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0264*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0317*		mg/kg wet	*0.02500*		*127*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0214*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
LCS										
Aroclor 1016	0.517	0.0500	mg/kg wet	0.5000		103	40-140			
Aroclor 1260	0.532	0.0500	mg/kg wet	0.5000		106	40-140			
Surrogate: Decachlorobiphenyl	*0.0275*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0274*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0238*		mg/kg wet	*0.02500*		*95*	*30-150*			
LCS Dup										
Aroclor 1016	0.517	0.0500	mg/kg wet	0.5000		103	40-140	0.09	30	
Aroclor 1260	0.525	0.0500	mg/kg wet	0.5000		105	40-140	1	30	
Surrogate: Decachlorobiphenyl	*0.0272*		mg/kg wet	*0.02500*		*109*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0270*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0224*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Batch CJ32319 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32319 - 3540										
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32319 - 3540										
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0242*		mg/kg wet	*0.02500*		*97*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0209*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
LCS										
Aroclor 1016	0.491	0.0500	mg/kg wet	0.5000		98	40-140			
Aroclor 1260	0.487	0.0500	mg/kg wet	0.5000		97	40-140			
Surrogate: Decachlorobiphenyl	*0.0256*		mg/kg wet	*0.02500*		*102*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0248*		mg/kg wet	*0.02500*		*99*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0214*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310455

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32319 - 3540										
LCS Dup										
Aroclor 1016	0.492	0.0500	mg/kg wet	0.5000		98	40-140	0.2	30	
Aroclor 1260	0.509	0.0500	mg/kg wet	0.5000		102	40-140	5	30	
Surrogate: Decachlorobiphenyl	*0.0262*		mg/kg wet	*0.02500*		*105*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0257*		mg/kg wet	*0.02500*		*103*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0208*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0214*		mg/kg wet	*0.02500*		*86*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310455

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
S+	Surrogate recovery(ies) above upper control limit (S+).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310455

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100455
Date Project Due: 10/25/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **2.8**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	1	NP
18	Yes	8 oz Soil Jar	1	NP
19	Yes	8 oz Soil Jar	1	NP
20	Yes	8 oz Soil Jar	1	NP
21	Yes	8 oz Soil Jar	1	NP
22	Yes	8 oz Soil Jar	1	NP
23	Yes	8 oz Soil Jar	1	NP
24	Yes	4 oz Soil Jar	1	NP
25	Yes	8 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: EPG

ESS Project ID: 13100455

Completed By: [signature]

Date/Time: 10/23/13 1032

Reviewed By: MEC

Date/Time: 10/23/13 1045

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time 2 day Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from: (MA) RI CT NH NJ NY ME Other _____
Is this project for any of the following: (MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310455

Electronic Deliverable Yes ☒ No ___
Format: Excel ☒ Access ___ PDF ☒ Other _____

Co. Name: EPG
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr. Suite 402
City: Quincy
State: MA
Zip: 02169
PO#:
Telephone #: 617-657-0254
Fax #:
Email Address: ccf@envpartners.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB											
1	10/22/13	1400	X		S	16X2		1	G	X											
2		1405				15X2															
3		1410				52X2															
4		1415				30X2															
5		1420				54X2															
6		1425				55X2															
7		1430				31X2															
8		1435				53X2															
9		1440				34X2															
10		1445				57X2															

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 2.8 IR Tm

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: CCF

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/22/13 8:30pm	J Byrne	10/22/13 8:30pm	J Byrne	10/23/13 9:45pm	[signature]	10/23/13 1019
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
MA RI CT NH NJ NY ME Other

Is this project for any of the following:
MA-MCP Navy USACE Other

Reporting Limits

ESS LAB PROJECT ID: 1310455

Electronic Deliverable Yes X No
Format: Excel X Access PDF X Other

Co. Name: EPG.	Project #	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Dr. Ste 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: 617-657-0254.	Fax #	Email Address: cfahy@enlpartners.com	

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	RCRA 8
11	10/22/13	1450	X		S	29X2		1	G	X	
12		1455				32X2					X
13		1500				33X2					
14		1505				17X2					
15		1510				18X					
16		1515				18XX2					
17		1520				0X					
18		1525				23X					
19		1530				11XX					
20		1535				11 yy					

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No
Seals Intact Yes No NA:
Cooler Temp: 2.8 IR Tim

Internal Use Only
[ ] Pickup
[ ] Technicians

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-

Sampled by: CCF

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/22/13 8:30pm	[signature]	10/22/13 8:30pm	[signature]	10/23/13 9:45am	[signature]	10/23/13 1019
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from: (MA) RI CT NH NJ NY ME Other

Is this project for any of the following: (MA-MCP) Navy USACE Other

Reporting Limits

ESS LAB PROJECT ID: 13104155

Electronic Deliverable Yes X No ___
Format: Excel X Access ___ PDF X Other

Co. Name: EP G.
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr. Ste 402
City: Quincy
State: MA
Zip: 02169
PO#:
Telephone #: 617-657-0254
Fax #:
Email Address: ccf@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
21	10/22/13	1540	X		S	11x		1	G	X
22		1545				11zz				
23		1550				23xx				
24		1555				DUP				
25		1600				12xx				

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 2.7, 2.2 Tim

Internal Use Only
[ ] Pickup
[ ] Technicians

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-
Sampled by: CCF
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/22/13 8:30am	[signature]	10/22/13 8:30am	[signature]	10/23/13 9:45am	[signature]	10/23/13 1019
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1310454

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 9:29 am, Oct 25, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310454

SAMPLE RECEIPT

The following samples were received on October 23, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1310454-01	101813-Up	Air	TO-10A
1310454-02	101813-Down	Air	TO-10A
1310454-03	102113-Up	Air	TO-10A
1310454-04	102113-Down	Air	TO-10A
1310454-05	Filter 2	Wipe	8082
1310454-06	VAC 2	Wipe	8082

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310454

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310454

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310454

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310454-01 through 1310454-06**

Matrices: ( ) Ground Water/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air (X) Other: Wipes, PUFs

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: Laurel Stoddard
Date: October 25, 2013
Printed Name: Laurel Stoddard
Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 101813-Up
Date Sampled: 10/18/13 17:00
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310454
ESS Laboratory Sample ID: 1310454-01
Sample Matrix: Air
Units: ug/m³
Analyst: IBM
Prepared: 10/23/13 17:50

TO-10A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1221	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1232	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1242	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1248	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1254	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1260	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1262	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442
Aroclor 1268	ND (0.48)		TO-10A		1	IBM	10/24/13 13:02		CJ32442

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*91 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 101813-Down
Date Sampled: 10/18/13 17:00
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310454
ESS Laboratory Sample ID: 1310454-02
Sample Matrix: Air
Units: ug/m³
Analyst: IBM
Prepared: 10/23/13 17:50

TO-10A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1221	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1232	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1242	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1248	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1254	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1260	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1262	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442
Aroclor 1268	ND (0.48)		TO-10A		1	IBM	10/24/13 13:21		CJ32442

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*94 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 102113-Up
Date Sampled: 10/21/13 17:00
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310454
ESS Laboratory Sample ID: 1310454-03
Sample Matrix: Air
Units: ug/m³
Analyst: IBM
Prepared: 10/23/13 17:50

TO-10A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1221	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1232	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1242	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1248	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1254	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1260	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1262	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442
Aroclor 1268	ND (0.39)		TO-10A		1	IBM	10/24/13 13:40		CJ32442

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 102113-Down
Date Sampled: 10/21/13 17:00
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310454
ESS Laboratory Sample ID: 1310454-04
Sample Matrix: Air
Units: ug/m³
Analyst: IBM
Prepared: 10/23/13 17:50

TO-10A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1221	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1232	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1242	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1248	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1254	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1260	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1262	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442
Aroclor 1268	ND (0.39)		TO-10A		1	IBM	10/24/13 13:59		CJ32442

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Filter 2
Date Sampled: 10/22/13 16:30
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310454
ESS Laboratory Sample ID: 1310454-05
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: IBM
Prepared: 10/23/13 17:50

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1221	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1232	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1242	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1248	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1254	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1260	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1262	ND (1.00)		8082		1	10/24/13 14:18		CJ32205
Aroclor 1268	ND (1.00)		8082		1	10/24/13 14:18		CJ32205

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*95 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: VAC 2
Date Sampled: 10/22/13 16:35
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310454
ESS Laboratory Sample ID: 1310454-06
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: IBM
Prepared: 10/23/13 17:50

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1221	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1232	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1242	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1248	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1254	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1260	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1262	ND (1.00)		8082		1	10/24/13 14:37		CJ32205
Aroclor 1268	ND (1.00)		8082		1	10/24/13 14:37		CJ32205

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310454

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CJ32205 - 3540C										
Blank										
Aroclor 1016	ND	1.00	ug/Wipe							
Aroclor 1221	ND	1.00	ug/Wipe							
Aroclor 1232	ND	1.00	ug/Wipe							
Aroclor 1242	ND	1.00	ug/Wipe							
Aroclor 1248	ND	1.00	ug/Wipe							
Aroclor 1254	ND	1.00	ug/Wipe							
Aroclor 1260	ND	1.00	ug/Wipe							
Aroclor 1262	ND	1.00	ug/Wipe							
Aroclor 1268	ND	1.00	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.528*		ug/Wipe	*0.5000*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.633*		ug/Wipe	*0.5000*		*127*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.428*		ug/Wipe	*0.5000*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.461*		ug/Wipe	*0.5000*		*92*	*30-150*			
LCS										
Aroclor 1016	10.3	1.00	ug/Wipe	10.00		103	40-140			
Aroclor 1260	10.6	1.00	ug/Wipe	10.00		106	40-140			
Surrogate: Decachlorobiphenyl	*0.550*		ug/Wipe	*0.5000*		*110*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.548*		ug/Wipe	*0.5000*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.462*		ug/Wipe	*0.5000*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.475*		ug/Wipe	*0.5000*		*95*	*30-150*			
LCS Dup										
Aroclor 1016	10.3	1.00	ug/Wipe	10.00		103	40-140	0.09	50	
Aroclor 1260	10.5	1.00	ug/Wipe	10.00		105	40-140	1	50	
Surrogate: Decachlorobiphenyl	*0.544*		ug/Wipe	*0.5000*		*109*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.540*		ug/Wipe	*0.5000*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.449*		ug/Wipe	*0.5000*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.462*		ug/Wipe	*0.5000*		*92*	*30-150*			
TO-10A Polychlorinated Biphenyls (PCB)										
Batch CJ32442 - 3540										
Blank										
Aroclor 1016	ND	1.00	ug/m³							
Aroclor 1221	ND	1.00	ug/m³							
Aroclor 1232	ND	1.00	ug/m³							
Aroclor 1242	ND	1.00	ug/m³							
Aroclor 1248	ND	1.00	ug/m³							
Aroclor 1254	ND	1.00	ug/m³							
Aroclor 1260	ND	1.00	ug/m³							
Aroclor 1262	ND	1.00	ug/m³							
Aroclor 1268	ND	1.00	ug/m³							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310454

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
TO-10A Polychlorinated Biphenyls (PCB)										
Batch CJ32442 - 3540										
Surrogate: Decachlorobiphenyl	*0.528*		ug/m³	*0.5000*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.633*		ug/m³	*0.5000*		*127*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.428*		ug/m³	*0.5000*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.461*		ug/m³	*0.5000*		*92*	*30-150*			
LCS										
Aroclor 1016	10.3	1.00	ug/m³	10.00		103	40-140			
Aroclor 1260	9.29	1.00	ug/m³	10.00		93	40-140			
Surrogate: Decachlorobiphenyl	*0.550*		ug/m³	*0.5000*		*110*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.548*		ug/m³	*0.5000*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.462*		ug/m³	*0.5000*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.475*		ug/m³	*0.5000*		*95*	*30-150*			
LCS Dup										
Aroclor 1016	10.3	1.00	ug/m³	10.00		103	40-140	0.09	50	
Aroclor 1260	9.42	1.00	ug/m³	10.00		94	40-140	1	50	
Surrogate: Decachlorobiphenyl	*0.544*		ug/m³	*0.5000*		*109*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.540*		ug/m³	*0.5000*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.449*		ug/m³	*0.5000*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.462*		ug/m³	*0.5000*		*92*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310454

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310454

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100454
Date Project Due: 10/25/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: **2.8**
   Iced With: **Ice**
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes | No
17. Were samples received intact? Yes | No
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	2 oz Soil Jar	1	NP
6	Yes	2 oz Soil Jar	1	NP

Completed By: [signature] Date/Time: 10/23/13 1031
Reviewed By: MEK Date/Time: 10/23/13 1045

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time 1 day Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310454

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: EPG.	Project #:	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Dr. Suite 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: 617-657-0254	Fax #:	Email Address: cct@envpartners.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB											
1	10/18/13	1000-1700	X		F	101813 - UP		1	G	X											
2	10/18/13	1000-1700	X		F	101813 - DOWN		1	G	↓											
3	10/21/13	0830-1700	X		F	102113 UP		1	G	↓											
4	10/21/13	0830-1700	X		F	102113 DOWN		1	G	↓											
5	10/22/13	1630		X	W	Filter 2	9	1	G	X											
6	10/22/13	1635		X	W	VAC2	9	1	G	X											

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 2.8 ice Tim

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- Hexane.

Sampled by: CCF

Comments: Air pumps for filters run @ 5L/min.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/22/13 8:30pm	J Byrne	10/22/13 8:30pm	J Byrne	10/23/13 9:45am	[signature]	10/23/13 1015
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1310427

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 5:42 pm, Oct 23, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

SAMPLE RECEIPT

The following samples were received on October 22, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1310427-01	27x	Soil	8082A
1310427-02	27xx	Soil	8082A
1310427-03	13x	Soil	8082A
1310427-04	25xx	Soil	8082A
1310427-05	2x	Soil	8082A
1310427-06	12x	Soil	8082A
1310427-07	13xx	Soil	8082A
1310427-08	62x2	Soil	8082A
1310427-09	8xx2	Soil	6010B
1310427-10	40x2	Soil	8082A
1310427-11	39xx2	Soil	8082A
1310427-12	8yy	Soil	6010B

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1310427-05 **Surrogate recovery(ies) above upper control limit (S+).**
Decachlorobiphenyl [2C] (189% @ 30-150%)

1310427-07 **Percent difference between primary and confirmation results exceeds 40% (P).**
Aroclor 1254

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310427-01 through 1310427-12**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (X)*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 23, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 27x
Date Sampled: 10/21/13 14:00
Percent Solids: 95
Initial Volume: 20.25
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0518)		8082A		1	10/23/13 10:47		CJ32325
Aroclor 1221	ND (0.0518)		8082A		1	10/23/13 10:47		CJ32325
Aroclor 1232	ND (0.0518)		8082A		1	10/23/13 10:47		CJ32325
Aroclor 1242	ND (0.0518)		8082A		1	10/23/13 10:47		CJ32325
Aroclor 1248	**0.521** (0.0518)		8082A		1	10/23/13 10:47		CJ32325
Aroclor 1254	**1.31** (0.259)		8082A		5	10/23/13 13:19		CJ32325
Aroclor 1260	ND (0.0518)		8082A		1	10/23/13 10:47		CJ32325
Aroclor 1262	ND (0.0518)		8082A		1	10/23/13 10:47		CJ32325
Aroclor 1268	ND (0.0518)		8082A		1	10/23/13 10:47		CJ32325

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*97 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 27xx
Date Sampled: 10/21/13 14:05
Percent Solids: 93
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A		1	10/23/13 11:06		CJ32325
Aroclor 1221	ND (0.0550)		8082A		1	10/23/13 11:06		CJ32325
Aroclor 1232	ND (0.0550)		8082A		1	10/23/13 11:06		CJ32325
Aroclor 1242	ND (0.0550)		8082A		1	10/23/13 11:06		CJ32325
Aroclor 1248	**2.42** (0.550)		8082A		10	10/23/13 13:38		CJ32325
Aroclor 1254	**5.20** (0.550)		8082A		10	10/23/13 13:38		CJ32325
Aroclor 1260	ND (0.0550)		8082A		1	10/23/13 11:06		CJ32325
Aroclor 1262	ND (0.0550)		8082A		1	10/23/13 11:06		CJ32325
Aroclor 1268	ND (0.0550)		8082A		1	10/23/13 11:06		CJ32325

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*115 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 13x
Date Sampled: 10/21/13 14:10
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0571)		8082A		1	10/23/13 11:24		CJ32204
Aroclor 1221	ND (0.0571)		8082A		1	10/23/13 11:24		CJ32204
Aroclor 1232	ND (0.0571)		8082A		1	10/23/13 11:24		CJ32204
Aroclor 1242	ND (0.0571)		8082A		1	10/23/13 11:24		CJ32204
Aroclor 1248	**2.76** (0.571)		8082A		10	10/23/13 13:53		CJ32204
Aroclor 1254	**7.07** (0.571)		8082A		10	10/23/13 13:53		CJ32204
Aroclor 1260	ND (0.0571)		8082A		1	10/23/13 11:24		CJ32204
Aroclor 1262	ND (0.0571)		8082A		1	10/23/13 11:24		CJ32204
Aroclor 1268	ND (0.0571)		8082A		1	10/23/13 11:24		CJ32204

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*120 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 25xx
Date Sampled: 10/21/13 14:15
Percent Solids: 91
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0561)		8082A		1	10/23/13 10:45		CJ32204
Aroclor 1221	ND (0.0561)		8082A		1	10/23/13 10:45		CJ32204
Aroclor 1232	ND (0.0561)		8082A		1	10/23/13 10:45		CJ32204
Aroclor 1242	ND (0.0561)		8082A		1	10/23/13 10:45		CJ32204
Aroclor 1248	**1.32** (0.280)		8082A		5	10/23/13 14:12		CJ32204
Aroclor 1254	**3.43** (0.280)		8082A		5	10/23/13 14:12		CJ32204
Aroclor 1260	ND (0.0561)		8082A		1	10/23/13 10:45		CJ32204
Aroclor 1262	ND (0.0561)		8082A		1	10/23/13 10:45		CJ32204
Aroclor 1268	ND (0.0561)		8082A		1	10/23/13 10:45		CJ32204

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 2x
Date Sampled: 10/21/13 14:20
Percent Solids: 93
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0529)		8082A		1	10/23/13 11:03		CJ32204
Aroclor 1221	ND (0.0529)		8082A		1	10/23/13 11:03		CJ32204
Aroclor 1232	ND (0.0529)		8082A		1	10/23/13 11:03		CJ32204
Aroclor 1242	ND (0.0529)		8082A		1	10/23/13 11:03		CJ32204
Aroclor 1248	**0.562** (0.0529)		8082A		1	10/23/13 11:03		CJ32204
Aroclor 1254	**1.53** (0.265)		8082A		5	10/23/13 14:31		CJ32204
Aroclor 1260	ND (0.0529)		8082A		1	10/23/13 11:03		CJ32204
Aroclor 1262	ND (0.0529)		8082A		1	10/23/13 11:03		CJ32204
Aroclor 1268	ND (0.0529)		8082A		1	10/23/13 11:03		CJ32204

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*189 %*	*S+*	*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 12x
Date Sampled: 10/21/13 14:25
Percent Solids: 93
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A		1	10/23/13 11:22		CJ32204
Aroclor 1221	ND (0.0550)		8082A		1	10/23/13 11:22		CJ32204
Aroclor 1232	ND (0.0550)		8082A		1	10/23/13 11:22		CJ32204
Aroclor 1242	ND (0.0550)		8082A		1	10/23/13 11:22		CJ32204
Aroclor 1248	**1.33** (0.550)		8082A		10	10/23/13 14:49		CJ32204
Aroclor 1254	**3.73** (0.550)		8082A		10	10/23/13 14:49		CJ32204
Aroclor 1260	ND (0.0550)		8082A		1	10/23/13 11:22		CJ32204
Aroclor 1262	ND (0.0550)		8082A		1	10/23/13 11:22		CJ32204
Aroclor 1268	ND (0.0550)		8082A		1	10/23/13 11:22		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*117 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 13xx
Date Sampled: 10/21/13 14:30
Percent Solids: 95
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1221	ND (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1232	ND (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1242	ND (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1248	ND (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1254	**P 0.135** (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1260	**0.129** (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1262	ND (0.0505)		8082A		1	10/23/13 11:41		CJ32204
Aroclor 1268	ND (0.0505)		8082A		1	10/23/13 11:41		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*105 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*110 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 62x2
Date Sampled: 10/21/13 14:35
Percent Solids: 93
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1221	ND (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1232	ND (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1242	ND (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1248	**0.166** (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1254	**0.436** (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1260	ND (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1262	ND (0.0544)		8082A		1	10/23/13 12:00		CJ32204
Aroclor 1268	ND (0.0544)		8082A		1	10/23/13 12:00		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*85 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*125 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*91 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8xx2
Date Sampled: 10/21/13 14:40
Percent Solids: 94

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-09
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**1020** (5.2)		6010B		1	SVD	10/22/13 15:44	2.03	100	CJ32129

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 40x2
Date Sampled: 10/21/13 14:45
Percent Solids: 89
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1221	ND (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1232	ND (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1242	ND (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1248	**0.286** (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1254	**0.727** (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1260	ND (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1262	ND (0.0582)		8082A		1	10/23/13 12:19		CJ32204
Aroclor 1268	ND (0.0582)		8082A		1	10/23/13 12:19		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*123 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 39xx2
Date Sampled: 10/21/13 14:50
Percent Solids: 89
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 10/22/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1221	ND (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1232	ND (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1242	ND (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1248	**0.451** (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1254	**1.03** (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1260	ND (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1262	ND (0.0568)		8082A		1	10/23/13 12:38		CJ32204
Aroclor 1268	ND (0.0568)		8082A		1	10/23/13 12:38		CJ32204

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*121 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8yy
Date Sampled: 10/21/13 15:00
Percent Solids: 93

ESS Laboratory Work Order: 1310427
ESS Laboratory Sample ID: 1310427-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**1270** (4.0)		6010B		1	SVD	10/22/13 15:50	2.65	100	CJ32129

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CJ32129 - 3050B										
Blank										
Lead	ND	5.0	mg/kg wet							
LCS										
Lead	110	16.1	mg/kg wet	115.0		95	80-120			
LCS Dup										
Lead	108	16.7	mg/kg wet	115.0		94	80-120	2	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32204 - 3540C										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32204 - 3540C										
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32204 - 3540C										
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0264*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0317*		mg/kg wet	*0.02500*		*127*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0214*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
LCS										
Aroclor 1016	0.517	0.0500	mg/kg wet	0.5000		103	40-140			
Aroclor 1260	0.532	0.0500	mg/kg wet	0.5000		106	40-140			
Surrogate: Decachlorobiphenyl	*0.0275*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0274*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0238*		mg/kg wet	*0.02500*		*95*	*30-150*			
LCS Dup										
Aroclor 1016	0.517	0.0500	mg/kg wet	0.5000		103	40-140	0.09	30	
Aroclor 1260	0.525	0.0500	mg/kg wet	0.5000		105	40-140	1	30	
Surrogate: Decachlorobiphenyl	*0.0272*		mg/kg wet	*0.02500*		*109*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0270*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0224*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Batch CJ32325 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32325 - 3540										
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32325 - 3540										
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32325 - 3540										
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0266*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0279*		mg/kg wet	*0.02500*		*111*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0208*		mg/kg wet	*0.02500*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0230*		mg/kg wet	*0.02500*		*92*	*30-150*			
LCS										
Aroclor 1016	0.482	0.0500	mg/kg wet	0.5000		96	40-140			
Aroclor 1260	0.516	0.0500	mg/kg wet	0.5000		103	40-140			
Surrogate: Decachlorobiphenyl	*0.0270*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0276*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0205*		mg/kg wet	*0.02500*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0213*		mg/kg wet	*0.02500*		*85*	*30-150*			
LCS Dup										
Aroclor 1016	0.521	0.0500	mg/kg wet	0.5000		104	40-140	8	30	
Aroclor 1260	0.540	0.0500	mg/kg wet	0.5000		108	40-140	5	30	
Surrogate: Decachlorobiphenyl	*0.0278*		mg/kg wet	*0.02500*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0283*		mg/kg wet	*0.02500*		*113*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310427

Notes and Definitions

U	Analyte included in the analysis, but not detected
S+	Surrogate recovery(ies) above upper control limit (S+).
P	Percent difference between primary and confirmation results exceeds 40% (P).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310427

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100427
Date Project Due: 10/24/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **0.8**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? ~~**Yes**~~ No CWS 10/22/13
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes** | **No**
17. Were samples received intact? **Yes** | **No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Clear jars? Samples 1-4 + 6 CWS 10/22/13

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 10/22/13 0930
Reviewed By: _____ Date/Time: 10/22/13 09:35

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time 2 day Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____
Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310427

Electronic Deliverable Yes X No ____
Format: Excel X Access X PDF ____ Other _____

Co. Name: EPG	Project #:	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Dr. Suite 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: 617-657-0254	Fax #:	Email Address: ccf@envpartners.com	

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	Pb
1	102113	1400	X		S	27X		1	G	X	
2		1405				27XX					
3		1410				13X					
4		1415				25XX					
5		1420				~~12XX~~ 2X					
6		1425				12X					
7		1430				~~11XX~~ 13XX					
8		1435				~~23XX~~ 62X2					
9		1440				~~23X~~ 8XX2					X
		—				~~Hg~~					

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 0.8 ice out 10/22/13

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: CCF

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/21/13 8pm	[signature]	10/21/13 8pm	[signature]	10/22/13 9am	[signature]	10/22/13 0923
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time 2 day Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from: (MA) RI CT NH NJ NY ME Other _____
Is this project for any of the following: (MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310427

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: EPG.	Project #:	Project Name (20 Char. or less):	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Dr. Suite 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: 617-657-0254	Fax #:	Email Address: ccf@envpartners.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	Pb
10	~~102113~~ 102113	1445	X		S	~~[illegible]~~ 40X2		1	G	X	
11	102113	1450	X		S	~~[illegible]~~ 39XX2		1	G	X	
12	102113	1500	X		S	8YY		1	G		X

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 0.8 CCF 10/22/13 ice

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: CCF

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/21/13 8pm	[signature]	10/21/13 8pm	[signature]	10/22/13 7am	[signature]	10/22/13 0423
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (270-1311)
ESS Laboratory Work Order Number: 1310393

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:19 am, Oct 21, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

SAMPLE RECEIPT

The following samples were received on October 18, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.
Samples 37x, 39x, 18x, were not received.
Sample 39x was recieved and added to the work order.

Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1310393-01	5xx	Soil	8082A
1310393-02	6x	Soil	8082A
1310393-03	31xx	Soil	8082A
1310393-04	31x	Soil	8082A
1310393-05	52x	Soil	8082A
1310393-06	16x	Soil	8082A
1310393-07	32x	Soil	8082A
1310393-08	53x	Soil	8082A
1310393-09	33xx	Soil	8082A
1310393-10	33x	Soil	8082A
1310393-11	36x	Soil	8082A
1310393-12	57x	Soil	8082A
1310393-13	8xx	Soil	6010B, 8082A
1310393-14	8x	Soil	6010B, 8082A
1310393-15	37xx	Soil	6010B, 8082A
1310393-17	58x	Soil	8082A
1310393-18	19xx	Soil	6010B, 8082A
1310393-19	59x	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310393

1310393-21	54x	Soil	8082A
1310393-22	17x	Soil	8082A
1310393-23	34x	Soil	8082A
1310393-24	55x	Soil	8082A
1310393-25	7x	Soil	8082A
1310393-26	35xx	Soil	8082A
1310393-27	35x	Soil	8082A
1310393-28	56x	Soil	8082A
1310393-29	18xx	Soil	8082A
1310393-31	39xx	Solid	8082A

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1310393-04 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1310393-24 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310393-01 through 1310393-31**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
(X) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 21, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 5xx
Date Sampled: 10/18/13 14:40
Percent Solids: 84
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739
Aroclor 1221	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739
Aroclor 1232	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739
Aroclor 1242	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739
Aroclor 1248	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739
Aroclor 1254	**2.22** (0.286)		8082A	2	5	10/19/13 21:25		CJ31739
Aroclor 1260	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739
Aroclor 1262	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739
Aroclor 1268	ND (0.0572)		8082A	2	1	10/19/13 10:44		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*110 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*94 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 6x
Date Sampled: 10/18/13 14:45
Percent Solids: 85
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739
Aroclor 1221	ND (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739
Aroclor 1232	ND (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739
Aroclor 1242	ND (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739
Aroclor 1248	**0.588** (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739
Aroclor 1254	**1.97** (0.290)		8082A	2	5	10/19/13 21:44		CJ31739
Aroclor 1260	ND (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739
Aroclor 1262	ND (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739
Aroclor 1268	ND (0.0580)		8082A	2	1	10/19/13 11:02		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 31xx
Date Sampled: 10/18/13 14:50
Percent Solids: 86
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1221	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1232	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1242	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1248	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1254	**0.709** (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1260	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1262	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739
Aroclor 1268	ND (0.0573)		8082A	2	1	10/19/13 11:21		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*116 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*110 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 31x
Date Sampled: 10/18/13 14:55
Percent Solids: 89
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1221	ND (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1232	ND (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1242	ND (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1248	**8.71** (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1254	**22.7** (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1260	ND (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1262	ND (2.71)		8082A	2	50	10/20/13 11:38		CJ31739
Aroclor 1268	ND (2.71)		8082A	2	50	10/20/13 11:38		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 52x
Date Sampled: 10/18/13 15:00
Percent Solids: 94
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0516)		8082A	2	1	10/19/13 11:59		CJ31739
Aroclor 1221	ND (0.0516)		8082A	2	1	10/19/13 11:59		CJ31739
Aroclor 1232	ND (0.0516)		8082A	2	1	10/19/13 11:59		CJ31739
Aroclor 1242	ND (0.0516)		8082A	2	1	10/19/13 11:59		CJ31739
Aroclor 1248	**1.43** (0.258)		8082A	2	5	10/20/13 9:18		CJ31739
Aroclor 1254	**3.30** (0.258)		8082A	2	5	10/20/13 9:18		CJ31739
Aroclor 1260	ND (0.0516)		8082A	2	1	10/19/13 11:59		CJ31739
Aroclor 1262	ND (0.0516)		8082A	2	1	10/19/13 11:59		CJ31739
Aroclor 1268	ND (0.0516)		8082A	2	1	10/19/13 11:59		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*121 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*106 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*126 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 16x
Date Sampled: 10/18/13 15:05
Percent Solids: 89
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1221	ND (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1232	ND (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1242	ND (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1248	**0.313** (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1254	**0.904** (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1260	ND (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1262	ND (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739
Aroclor 1268	ND (0.0538)		8082A	2	1	10/19/13 12:18		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*119 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 32x
Date Sampled: 10/18/13 15:10
Percent Solids: 93
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1221	ND (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1232	ND (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1242	ND (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1248	**0.455** (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1254	**0.964** (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1260	ND (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1262	ND (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739
Aroclor 1268	ND (0.0522)		8082A	2	1	10/19/13 12:36		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*123 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*118 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 53x
Date Sampled: 10/18/13 15:15
Percent Solids: 91
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0539)		8082A	2	1	10/19/13 12:55		CJ31739
Aroclor 1221	ND (0.0539)		8082A	2	1	10/19/13 12:55		CJ31739
Aroclor 1232	ND (0.0539)		8082A	2	1	10/19/13 12:55		CJ31739
Aroclor 1242	ND (0.0539)		8082A	2	1	10/19/13 12:55		CJ31739
Aroclor 1248	**1.62** (0.539)		8082A	2	10	10/20/13 11:31		CJ31739
Aroclor 1254	**3.93** (0.539)		8082A	2	10	10/20/13 11:31		CJ31739
Aroclor 1260	ND (0.0539)		8082A	2	1	10/19/13 12:55		CJ31739
Aroclor 1262	ND (0.0539)		8082A	2	1	10/19/13 12:55		CJ31739
Aroclor 1268	ND (0.0539)		8082A	2	1	10/19/13 12:55		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*112 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*121 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*114 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 33xx
Date Sampled: 10/18/13 15:20
Percent Solids: 88
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739
Aroclor 1221	ND (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739
Aroclor 1232	ND (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739
Aroclor 1242	ND (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739
Aroclor 1248	**0.642** (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739
Aroclor 1254	**2.69** (0.549)		8082A	2	10	10/19/13 22:59		CJ31739
Aroclor 1260	ND (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739
Aroclor 1262	ND (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739
Aroclor 1268	ND (0.0549)		8082A	2	1	10/19/13 13:14		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*111 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*110 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 33x
Date Sampled: 10/18/13 15:25
Percent Solids: 84
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1221	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1232	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1242	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1248	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1254	**0.105** (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1260	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1262	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739
Aroclor 1268	ND (0.0584)		8082A	2	1	10/19/13 13:33		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*122 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*115 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*108 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 36x
Date Sampled: 10/18/13 16:20
Percent Solids: 89
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1221	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1232	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1242	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1248	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1254	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1260	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1262	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739
Aroclor 1268	ND (0.0559)		8082A	2	1	10/19/13 13:52		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*106 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 57x
Date Sampled: 10/18/13 16:22
Percent Solids: 90
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739
Aroclor 1221	ND (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739
Aroclor 1232	ND (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739
Aroclor 1242	ND (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739
Aroclor 1248	**1.08** (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739
Aroclor 1254	**3.58** (0.550)		8082A	2	10	10/19/13 23:57		CJ31739
Aroclor 1260	ND (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739
Aroclor 1262	ND (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739
Aroclor 1268	ND (0.0550)		8082A	2	1	10/19/13 14:11		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*111 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8xx
Date Sampled: 10/18/13 16:25
Percent Solids: 95

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-13
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

MA - RCS1

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**1070** (5.0)		6010B	300	1	SVD	10/20/13 3:35	2.1	100	CJ31907

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8xx
Date Sampled: 10/18/13 16:25
Percent Solids: 95
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1221	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1232	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1242	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1248	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1254	**0.608** (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1260	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1262	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739
Aroclor 1268	ND (0.0519)		8082A	2	1	10/19/13 14:29		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*115 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*118 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8x
Date Sampled: 10/18/13 16:27
Percent Solids: 91

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-14
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

MA - RCS1

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**176** (5.4)		6010B	300	1	SVD	10/20/13 3:40	2.02	100	CJ31907

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 8x
Date Sampled: 10/18/13 16:27
Percent Solids: 91
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1221	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1232	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1242	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1248	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1254	**0.247** (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1260	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1262	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739
Aroclor 1268	ND (0.0544)		8082A	2	1	10/19/13 14:48		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*95 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 37xx
Date Sampled: 10/18/13 16:30
Percent Solids: 89

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-15
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

MA - RCS1

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**256** (5.4)		6010B	300	1	SVD	10/20/13 3:46	2.07	100	CJ31907

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 37xx
Date Sampled: 10/18/13 16:30
Percent Solids: 89
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-15
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1221	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1232	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1242	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1248	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1254	**0.320** (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1260	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1262	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739
Aroclor 1268	ND (0.0556)		8082A	2	1	10/19/13 15:07		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*118 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*114 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 58x
Date Sampled: 10/18/13 16:35
Percent Solids: 89
Initial Volume: 20.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-17
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1221	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1232	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1242	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1248	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1254	**0.397** (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1260	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1262	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739
Aroclor 1268	ND (0.0540)		8082A	2	1	10/19/13 15:26		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*118 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*110 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 19xx
Date Sampled: 10/18/13 16:40
Percent Solids: 93

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-18
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

MA - RCS1

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	**167** (5.1)		6010B	300	1	SVD	10/20/13 3:57	2.1	100	CJ31907

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 19xx
Date Sampled: 10/18/13 16:40
Percent Solids: 93
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-18
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1221	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1232	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1242	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1248	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1254	**0.121** (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1260	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1262	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739
Aroclor 1268	ND (0.0522)		8082A	2	1	10/19/13 15:45		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*101 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*121 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 59x
Date Sampled: 10/18/13 16:42
Percent Solids: 92
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-19
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1221	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1232	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1242	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1248	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1254	**0.433** (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1260	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1262	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739
Aroclor 1268	ND (0.0528)		8082A	2	1	10/19/13 18:35		CJ31739

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*106 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 54x
Date Sampled: 10/18/13 15:30
Percent Solids: 90
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-21
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0545)		8082A	2	1	10/19/13 18:53		CJ31739
Aroclor 1221	ND (0.0545)		8082A	2	1	10/19/13 18:53		CJ31739
Aroclor 1232	ND (0.0545)		8082A	2	1	10/19/13 18:53		CJ31739
Aroclor 1242	ND (0.0545)		8082A	2	1	10/19/13 18:53		CJ31739
Aroclor 1248	**3.63** (0.545)		8082A	2	10	10/20/13 11:50		CJ31739
Aroclor 1254	**9.32** (0.545)		8082A	2	10	10/20/13 11:50		CJ31739
Aroclor 1260	ND (0.0545)		8082A	2	1	10/19/13 18:53		CJ31739
Aroclor 1262	ND (0.0545)		8082A	2	1	10/19/13 18:53		CJ31739
Aroclor 1268	ND (0.0545)		8082A	2	1	10/19/13 18:53		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*130 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 17x
Date Sampled: 10/18/13 15:35
Percent Solids: 91
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-22
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739
Aroclor 1221	ND (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739
Aroclor 1232	ND (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739
Aroclor 1242	ND (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739
Aroclor 1248	**0.423** (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739
Aroclor 1254	**2.25** (0.533)		8082A	2	10	10/20/13 4:58		CJ31739
Aroclor 1260	ND (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739
Aroclor 1262	ND (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739
Aroclor 1268	ND (0.0533)		8082A	2	1	10/19/13 19:13		CJ31739

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*116 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*112 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 34x
Date Sampled: 10/18/13 15:40
Percent Solids: 89
Initial Volume: 20.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-23
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0553)		8082A	2	1	10/19/13 19:32		CJ31740
Aroclor 1221	ND (0.0553)		8082A	2	1	10/19/13 19:32		CJ31740
Aroclor 1232	ND (0.0553)		8082A	2	1	10/19/13 19:32		CJ31740
Aroclor 1242	ND (0.0553)		8082A	2	1	10/19/13 19:32		CJ31740
Aroclor 1248	**4.07** (0.553)		8082A	2	10	10/20/13 5:17		CJ31740
Aroclor 1254	**7.96** (0.553)		8082A	2	10	10/20/13 5:17		CJ31740
Aroclor 1260	ND (0.0553)		8082A	2	1	10/19/13 19:32		CJ31740
Aroclor 1262	ND (0.0553)		8082A	2	1	10/19/13 19:32		CJ31740
Aroclor 1268	ND (0.0553)		8082A	2	1	10/19/13 19:32		CJ31740

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*132 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*124 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 55x
Date Sampled: 10/18/13 15:45
Percent Solids: 91
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-24
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1221	ND (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1232	ND (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1242	ND (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1248	**6.36** (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1254	**11.9** (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1260	ND (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1262	ND (1.08)		8082A	2	20	10/20/13 12:29		CJ31740
Aroclor 1268	ND (1.08)		8082A	2	20	10/20/13 12:29		CJ31740

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 7x
Date Sampled: 10/18/13 15:50
Percent Solids: 90
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-25
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1221	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1232	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1242	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1248	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1254	**0.623** (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1260	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1262	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740
Aroclor 1268	ND (0.0537)		8082A	2	1	10/20/13 12:09		CJ31740

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*117 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*121 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 35xx
Date Sampled: 10/18/13 15:55
Percent Solids: 86
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-26
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1221	ND (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1232	ND (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1242	ND (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1248	**0.0833** (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1254	**0.202** (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1260	ND (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1262	ND (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740
Aroclor 1268	ND (0.0556)		8082A	2	1	10/20/13 11:12		CJ31740

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*116 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*126 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 35x
Date Sampled: 10/18/13 16:00
Percent Solids: 89
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-27
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1221	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1232	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1242	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1248	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1254	**0.113** (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1260	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1262	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740
Aroclor 1268	ND (0.0551)		8082A	2	1	10/19/13 20:48		CJ31740

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*114 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*122 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 56x
Date Sampled: 10/18/13 16:05
Percent Solids: 91
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-28
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1221	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1232	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1242	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1248	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1254	**0.193** (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1260	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1262	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740
Aroclor 1268	ND (0.0533)		8082A	2	1	10/19/13 21:06		CJ31740

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*107 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*132 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 18xx
Date Sampled: 10/18/13 16:10
Percent Solids: 91
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-29
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1221	ND (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1232	ND (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1242	ND (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1248	**0.439** (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1254	**0.953** (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1260	ND (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1262	ND (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740
Aroclor 1268	ND (0.0539)		8082A	2	1	10/19/13 15:38		CJ31740

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*115 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*104 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*135 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 39xx
Date Sampled: 10/18/13 16:45
Percent Solids: 89
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310393
ESS Laboratory Sample ID: 1310393-31
Sample Matrix: Solid
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740
Aroclor 1221	ND (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740
Aroclor 1232	ND (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740
Aroclor 1242	ND (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740
Aroclor 1248	**0.606** (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740
Aroclor 1254	**2.11** (0.559)		8082A	2	10	10/20/13 2:23		CJ31740
Aroclor 1260	ND (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740
Aroclor 1262	ND (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740
Aroclor 1268	ND (0.0559)		8082A	2	1	10/19/13 16:35		CJ31740

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*120 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CJ31907 - 3050B										
Blank										
Lead	ND	5.0	mg/kg wet							
LCS										
Lead	94.2	17.6	mg/kg wet	115.0		82	80-120			
LCS Dup										
Lead	92.9	18.9	mg/kg wet	115.0		81	80-120	1	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31739 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31739 - 3540										
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31739 - 3540										
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0239*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0210*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0219*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
LCS										
Aroclor 1016	0.502	0.0500	mg/kg wet	0.5000		100	40-140			
Aroclor 1260	0.485	0.0500	mg/kg wet	0.5000		97	40-140			
Surrogate: Decachlorobiphenyl	*0.0243*		mg/kg wet	*0.02500*		*97*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0220*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0241*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0242*		mg/kg wet	*0.02500*		*97*	*30-150*			
LCS Dup										
Aroclor 1016	0.505	0.0500	mg/kg wet	0.5000		101	40-140	0.7	30	
Aroclor 1260	0.494	0.0500	mg/kg wet	0.5000		99	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0244*		mg/kg wet	*0.02500*		*98*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0241*		mg/kg wet	*0.02500*		*97*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0241*		mg/kg wet	*0.02500*		*96*	*30-150*			
Batch CJ31740 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31740 - 3540										
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31740 - 3540										
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31740 - 3540										
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0253*		mg/kg wet	*0.02500*		*101*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0222*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0220*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
LCS										
Aroclor 1016	0.497	0.0500	mg/kg wet	0.5000		99	40-140			
Aroclor 1260	0.464	0.0500	mg/kg wet	0.5000		93	40-140			
Surrogate: Decachlorobiphenyl	*0.0244*		mg/kg wet	*0.02500*		*97*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0215*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0236*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0236*		mg/kg wet	*0.02500*		*94*	*30-150*			
LCS Dup										
Aroclor 1016	0.505	0.0500	mg/kg wet	0.5000		101	40-140	2	30	
Aroclor 1260	0.473	0.0500	mg/kg wet	0.5000		95	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0244*		mg/kg wet	*0.02500*		*98*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0219*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0232*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0232*		mg/kg wet	*0.02500*		*93*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310393

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310393

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100393
Date Project Due: 10/21/13
Days For Project: 1 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp:
   Iced With: **Icepacks**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

28 samples not 31 received 10/19/13 (16)
Missing containers for 37X, 39X & 18X.
Container not on C.O.C. 39X added to C.O.C as 1310393-31.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	1	NP
20	Yes	4 oz Soil Jar	1	NP
21	Yes	4 oz Soil Jar	1	NP
22	Yes	4 oz Soil Jar	1	NP
23	Yes	4 oz Soil Jar	1	NP
24	Yes	4 oz Soil Jar	1	NP
25	Yes	4 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: EPG ESS Project ID: 13100393

26	Yes	4 oz Soil Jar	1	NP
27	Yes	4 oz Soil Jar	1	NP
28	Yes	4 oz Soil Jar	1	NP
29	Yes	4 oz Soil Jar	1	NP
30	Yes	4 oz Soil Jar	1	NP
31	Yes	4 oz Soil Jar	1	NP

Completed By: [illegible] Date/Time: 10/18/13

Reviewed By: [illegible] Date/Time: 10/18/13

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

1 of 3 ~~1 of 5~~

Page ~~2~~ of ~~5~~

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other

Is this project for any of the following:
(MA-MCP) Navy USACE Other

Reporting Limits: RLS-1

ESS LAB PROJECT ID: 1310397

Electronic Deliverable: Yes ☒ No ___
Format: Excel ☒ Access ___ PDF ☒ Other

Co. Name	Project #	Project Name (20 Char. or less)
EPG	270-1311	Strawberry Hill

Contact Person	Address
Carter Fahy	1900 Crown Colony Dr. Suite 402

City	State	Zip	PO#
Quincy	MA	02169	

Telephone #	Fax #	Email Address
617-657-0254		cf@envpartners.com

Write Required Analysis: PCB

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	10/18/13	1440	☒		S	5xx		1	G	✓
2	↓	1445	↓		↓	6x		↓	↓	↓
3		1450				31xx				
4		1455				31x				
5		1500				52x				
6		1505				16x				
7		1510				32x				
8		1515				53x				
9		1520				33xx				
10	↓	1525	↓		↓	33x		↓	↓	↓

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 5-6°C Ice

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/18 7:40	[signature]	10/18/13 1940				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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www.esslaboratory.com

CHAIN OF CUSTODY

2 of 3 ~~2 of 5~~ Page 4 of 5

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:
MA RI CT NH NJ NY ME Other

Is this project for any of the following:
MA-MCP Navy USACE Other

Reporting Limits: RCS-1

ESS LAB PROJECT ID: 1310393

Electronic Deliverable Yes X No ___
Format: Excel X Access ___ PDF X Other

Co. Name: EPG.
Project #: 270-1311
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr. Suite 402
City: Quincy
State: MA
Zip: 02169
PO#
Telephone #: 617-657-0254
Fax #
Email Address: cfc@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	Pb											
11	10/18/13	1620	X		S	36X		1	G	X												
12		1622				57X																
13		1625				8XX					X											
14		1627				8X					X											
15		1630				37XX					X											
16		1632				37X Cancelled 10/18/13																Missing Container 10/18/13
17		1635				58X																
18		1640				19XX					X											
19		1642				59X																
20		1645				39XX Cancelled 10/18/13																Missing Container 10/18/13

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 5.6°C

Internal Use Only
[ ] Pickup
[ ] Technicians

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-
Sampled by:
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/18 7:40		10/18/13 1940				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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CHAIN OF CUSTODY

3 of 3

Page ~~3~~ of ~~5~~

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other ___

Is this project for any of the following:
(MA-MCP) Navy USACE Other ___

Reporting Limits: RCS-1

ESS LAB PROJECT ID: 1310393

Electronic Deliverable: Yes X No ___

Format: Excel X Access ___ PDF X Other ___

Co. Name	Project #	Project Name (20 Char. or less)
EPG.	270-1311	Strawberry Hill

Contact Person	Address
Carter Fahy	1900 Crown Colony Dr. Ste 402

City	State	Zip	PO#
Quincy	MA	02169	

Telephone #	Fax #	Email Address
617-657-0254		cf@envpartners.com

Write Required Analysis: PCB

	ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
19	4 12	10/18/13	1530	X		S	54x	0	1	G	
20	17 17		1535				17x				
21	23 23		1540				34x				
22	24 24		1545				55x				
23	25 25		1550				7x				
24	26 26		1555				35xx				
25	27 27		1600				35x				
26	28 28		1605				56x				
27	29 29		1610				18xx				
	30 30		1615				18x Consolidated 10/21/13				

Mixed Container 10/18/13

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 5-6°C Ice

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: 10/19/13

Comments: 31 added (39x) Not on COC Customer emailed 10/21/13 39x is (39xx) Revised Copy 10/21/13

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/18 7:40		10/19/13 PM0				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (270-1311)
ESS Laboratory Work Order Number: 1310392

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:17 am, Oct 21, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

SAMPLE RECEIPT

The following samples were received on October 18, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1310392-01	Tank Stem Gray	Wipe	8082
1310392-02	28x	Soil	8082A
1310392-04	29xx	Soil	8082A
1310392-05	29x	Soil	8082A
1310392-07	4x	Soil	8082A
1310392-08	15x	Soil	8082A
1310392-09	30x	Soil	8082A
1310392-10	5x	Soil	8082A
1310392-12	39x	Soil	8082A
1310392-13	40x	Soil	8082A
1310392-14	62x	Soil	8082A
1310392-15	House	Wipe	8082
1310392-16	PTW	Wipe	8082
1310392-17	VAC	Wipe	8082
1310392-18	Filter	Wipe	8082

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1310392-08 **Surrogate recovery(ies) above upper control limit (S+).**
Decachlorobiphenyl [2C] (176% @ 30-150%)

1310392-09 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1310392-01 through 1310392-18**

Matrices: ( ) Ground Water/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes ( ) No (X)*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: October 21, 2013
Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Tank Stem Gray
Date Sampled: 10/18/13 09:00
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-01
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 10/18/13 20:00

8082 Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1221	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1232	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1242	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1248	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1254	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1260	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1262	ND (1.0)		8082		1	10/19/13 18:29		CJ32001
Aroclor 1268	ND (1.0)		8082		1	10/19/13 18:29		CJ32001

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 28x
Date Sampled: 10/18/13 13:40
Percent Solids: 92
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1221	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1232	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1242	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1248	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1254	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1260	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1262	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738
Aroclor 1268	ND (0.0557)		8082A	2	1	10/19/13 18:48		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29xx
Date Sampled: 10/18/13 13:50
Percent Solids: 91
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0561)		8082A	2	1	10/19/13 19:07		CJ31738
Aroclor 1221	ND (0.0561)		8082A	2	1	10/19/13 19:07		CJ31738
Aroclor 1232	ND (0.0561)		8082A	2	1	10/19/13 19:07		CJ31738
Aroclor 1242	ND (0.0561)		8082A	2	1	10/19/13 19:07		CJ31738
Aroclor 1248	**3.32** (0.561)		8082A	2	10	10/20/13 4:55		CJ31738
Aroclor 1254	**7.90** (0.561)		8082A	2	10	10/20/13 4:55		CJ31738
Aroclor 1260	ND (0.0561)		8082A	2	1	10/19/13 19:07		CJ31738
Aroclor 1262	ND (0.0561)		8082A	2	1	10/19/13 19:07		CJ31738
Aroclor 1268	ND (0.0561)		8082A	2	1	10/19/13 19:07		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 29x
Date Sampled: 10/18/13 13:55
Percent Solids: 93
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1221	ND (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1232	ND (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1242	ND (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1248	**0.250** (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1254	**0.584** (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1260	ND (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1262	ND (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738
Aroclor 1268	ND (0.0549)		8082A	2	1	10/20/13 9:01		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*102 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 4x
Date Sampled: 10/18/13 14:05
Percent Solids: 84
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0617)		8082A	2	1	10/19/13 19:45		CJ31738
Aroclor 1221	ND (0.0617)		8082A	2	1	10/19/13 19:45		CJ31738
Aroclor 1232	ND (0.0617)		8082A	2	1	10/19/13 19:45		CJ31738
Aroclor 1242	ND (0.0617)		8082A	2	1	10/19/13 19:45		CJ31738
Aroclor 1248	**2.88** (0.617)		8082A	2	10	10/20/13 7:26		CJ31738
Aroclor 1254	**6.25** (0.617)		8082A	2	10	10/20/13 7:26		CJ31738
Aroclor 1260	ND (0.0617)		8082A	2	1	10/19/13 19:45		CJ31738
Aroclor 1262	ND (0.0617)		8082A	2	1	10/19/13 19:45		CJ31738
Aroclor 1268	ND (0.0617)		8082A	2	1	10/19/13 19:45		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*105 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 15x
Date Sampled: 10/18/13 14:15
Percent Solids: 86
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0587)		8082A	2	1	10/19/13 20:04		CJ31738
Aroclor 1221	ND (0.0587)		8082A	2	1	10/19/13 20:04		CJ31738
Aroclor 1232	ND (0.0587)		8082A	2	1	10/19/13 20:04		CJ31738
Aroclor 1242	ND (0.0587)		8082A	2	1	10/19/13 20:04		CJ31738
Aroclor 1248	**1.81** (0.587)		8082A	2	10	10/20/13 7:45		CJ31738
Aroclor 1254	**5.43** (0.587)		8082A	2	10	10/20/13 7:45		CJ31738
Aroclor 1260	ND (0.0587)		8082A	2	1	10/19/13 20:04		CJ31738
Aroclor 1262	ND (0.0587)		8082A	2	1	10/19/13 20:04		CJ31738
Aroclor 1268	ND (0.0587)		8082A	2	1	10/19/13 20:04		CJ31738

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*126 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*176 %*	*S+*	*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*105 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 30x
Date Sampled: 10/18/13 14:20
Percent Solids: 91
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1221	ND (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1232	ND (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1242	ND (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1248	**29.6** (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1254	**61.9** (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1260	ND (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1262	ND (5.69)		8082A	2	100	10/20/13 10:36		CJ31738
Aroclor 1268	ND (5.69)		8082A	2	100	10/20/13 10:36		CJ31738

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 5x
Date Sampled: 10/18/13 14:30
Percent Solids: 90
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0567)		8082A	2	1	10/20/13 9:20		CJ31738
Aroclor 1221	ND (0.0567)		8082A	2	1	10/20/13 9:20		CJ31738
Aroclor 1232	ND (0.0567)		8082A	2	1	10/20/13 9:20		CJ31738
Aroclor 1242	ND (0.0567)		8082A	2	1	10/20/13 9:20		CJ31738
Aroclor 1248	**2.68** (0.567)		8082A	2	10	10/20/13 11:20		CJ31738
Aroclor 1254	**5.27** (0.567)		8082A	2	10	10/20/13 11:20		CJ31738
Aroclor 1260	ND (0.0567)		8082A	2	1	10/20/13 9:20		CJ31738
Aroclor 1262	ND (0.0567)		8082A	2	1	10/20/13 9:20		CJ31738
Aroclor 1268	ND (0.0567)		8082A	2	1	10/20/13 9:20		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*121 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*127 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*102 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 39x
Date Sampled: 10/18/13 16:52
Percent Solids: 91
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1221	ND (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1232	ND (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1242	ND (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1248	**0.255** (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1254	**0.424** (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1260	ND (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1262	ND (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738
Aroclor 1268	ND (0.0569)		8082A	2	1	10/20/13 9:58		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*101 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*118 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 40x
Date Sampled: 10/18/13 16:54
Percent Solids: 86
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1221	ND (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1232	ND (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1242	ND (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1248	**0.448** (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1254	**0.954** (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1260	ND (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1262	ND (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738
Aroclor 1268	ND (0.0599)		8082A	2	1	10/19/13 21:19		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*113 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*123 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*126 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: 62x
Date Sampled: 10/18/13 16:56
Percent Solids: 92
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-14
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 10/18/13 20:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1221	ND (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1232	ND (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1242	ND (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1248	**0.229** (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1254	**1.01** (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1260	ND (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1262	ND (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738
Aroclor 1268	ND (0.0557)		8082A	2	1	10/19/13 23:32		CJ31738

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*106 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*99 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*110 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: House
Date Sampled: 10/18/13 16:58
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-15
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 10/18/13 20:00

8082 Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1221	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1232	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1242	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1248	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1254	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1260	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1262	ND (1.0)		8082		1	10/19/13 23:51		CJ32001
Aroclor 1268	ND (1.0)		8082		1	10/19/13 23:51		CJ32001

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*101 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*124 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: PTW
Date Sampled: 10/18/13 17:00
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-16
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 10/18/13 20:00

8082 Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1221	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1232	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1242	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1248	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1254	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1260	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1262	ND (1.0)		8082		1	10/20/13 0:10		CJ32001
Aroclor 1268	ND (1.0)		8082		1	10/20/13 0:10		CJ32001

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*97 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: VAC
Date Sampled: 10/18/13 17:45
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-17
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 10/18/13 20:00

8082 Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1221	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1232	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1242	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1248	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1254	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1260	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1262	ND (1.0)		8082		1	10/20/13 0:29		CJ32001
Aroclor 1268	ND (1.0)		8082		1	10/20/13 0:29		CJ32001

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Filter
Date Sampled: 10/18/13 17:49
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310392
ESS Laboratory Sample ID: 1310392-18
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 10/18/13 20:00

8082 Polychlorinated Biphenyls (PCB)

				MA - RCS1				
Analyte	**Results (MRL)**	**MDL**	**Method**	**Limit**	**DF**	**Analyzed**	**Sequence**	**Batch**
Aroclor 1016	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1221	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1232	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1242	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1248	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1254	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1260	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1262	ND (1.0)		8082		1	10/20/13 0:48		CJ32001
Aroclor 1268	ND (1.0)		8082		1	10/20/13 0:48		CJ32001

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*103 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CJ32001 - 3540										
Blank										
Aroclor 1016	ND	0.05	ug/Wipe							
Aroclor 1221	ND	0.05	ug/Wipe							
Aroclor 1232	ND	0.05	ug/Wipe							
Aroclor 1242	ND	0.05	ug/Wipe							
Aroclor 1248	ND	0.05	ug/Wipe							
Aroclor 1254	ND	0.05	ug/Wipe							
Aroclor 1260	ND	0.05	ug/Wipe							
Aroclor 1262	ND	0.05	ug/Wipe							
Aroclor 1268	ND	0.05	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.0249*		ug/Wipe	*0.02500*		*99*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0218*		ug/Wipe	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0225*		ug/Wipe	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0237*		ug/Wipe	*0.02500*		*95*	*30-150*			
LCS										
Aroclor 1016	0.5	0.05	ug/Wipe	0.5000		104	40-140			
Aroclor 1260	0.5	0.05	ug/Wipe	0.5000		106	40-140			
Surrogate: Decachlorobiphenyl	*0.0274*		ug/Wipe	*0.02500*		*110*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0239*		ug/Wipe	*0.02500*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0240*		ug/Wipe	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0240*		ug/Wipe	*0.02500*		*96*	*30-150*			
LCS Dup										
Aroclor 1016	0.5	0.05	ug/Wipe	0.5000		100	40-140	4	50	
Aroclor 1260	0.5	0.05	ug/Wipe	0.5000		108	40-140	2	50	
Surrogate: Decachlorobiphenyl	*0.0267*		ug/Wipe	*0.02500*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0233*		ug/Wipe	*0.02500*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0230*		ug/Wipe	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0229*		ug/Wipe	*0.02500*		*92*	*30-150*			
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31738 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31738 - 3540										
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31738 - 3540										
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0249*		mg/kg wet	*0.02500*		*99*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ31738 - 3540										
Surrogate: Decachlorobiphenyl [2C]	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
LCS										
Aroclor 1016	0.518	0.0500	mg/kg wet	0.5000		104	40-140			
Aroclor 1260	0.529	0.0500	mg/kg wet	0.5000		106	40-140			
Surrogate: Decachlorobiphenyl	*0.0274*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0239*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0240*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0240*		mg/kg wet	*0.02500*		*96*	*30-150*			
LCS Dup										
Aroclor 1016	0.498	0.0500	mg/kg wet	0.5000		100	40-140	4	30	
Aroclor 1260	0.539	0.0500	mg/kg wet	0.5000		108	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0267*		mg/kg wet	*0.02500*		*107*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0233*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0230*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0229*		mg/kg wet	*0.02500*		*92*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1310392

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
S+	Surrogate recovery(ies) above upper control limit (S+).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1310392

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: EPG
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100392
Date Project Due: 10/21/13
Days For Project: 1 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: **5.6**
   Iced With: **Ice**
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes|No
17. Were samples received intact? Yes|No

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Missing containers for 49X, 50X & 60X.
15 samples ~~rec~~ received not in 10/19/13 (22)

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	1	NP

Completed By: Eva [signature] Date/Time: 10/18/13
Reviewed By: VL Date/Time: 10/18/13

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

1 of 3

Page 1 of 5

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other ___

Is this project for any of the following:
(MA-MCP) Navy USACE Other ___

Reporting Limits: RCS-1

ESS LAB PROJECT ID: 1310392

Electronic Deliverable: Yes ✓ No ___

Format: Excel ✓ Access ___ PDF ✓ Other ___

Co. Name: EPG

Project #: 270-1311

Project Name (20 Char. or less): Strawberry Hill

Contact Person: Carter Fahy

Address: 1900 Crown Colony Dr. Ste 402

City: Quincy

State: MA

Zip: 02169

PO#:

Telephone #: 617-657-0254

Fax #:

Email Address: cct@envpartners.com

Write Required Analysis: PCB

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	10/18/13	0900		X	W	Tank Stem Gray	9	1	G	/
2		1340	X		S	28x				
~~3~~ 3		1345				49x Cancelled 10/18/13				
~~3~~ 4		1350				29xx				
~~4~~ 5		1355				29x				
~~5~~ 6		1400				50x Cancelled 10/18/13				
~~5~~ 7		1405				4x				
~~6~~ 8		1415				15x				
~~7~~ 9		1420				30x				
~~8~~ 10		1430				85x				

Mistag - Container 10/18/13

Mistag - Container 10/18/13

10/18/13

10/21/13

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 5.6 °C Ice

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- Hexane

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/18 7:40	[signature]	10/18/13 1940				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 2 of 3 (2 of 3)

Turn Time ___ Standard Other 2-day
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from: MA RI CT NH NJ NY ME Other ___

~~To this~~ project for any of the following: MA-MCP Navy USACE Other ___

Reporting Limits: RCS-1

ESS LAB PROJECT ID: 1310392

Electronic Deliverable: Yes X No ___
Format: Excel X Access ___ PDF X Other ___

Co. Name: EPG
Project #: 270-1311
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr. Suite 402
City: Quincy
State: MA
Zip: 02169
PO#:
Telephone #: 617-657-0254
Fax #:
Email Address: cfc@envpartners.com

Write Required Analysis: PCB

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
9 11	10/18/13	1650	X		S	60X Cancelled 10/18/13		1	G	X
(9) #10 10		1652				39X				
(10) #13 13		1654				40X				
(11) 14 14		1656				62X				
(12) 15 15		1658		X	W	House				
(13) 16 16		1700		X	W	PTW				
10/18/13 (16)										

Missing Container 10/18/13

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 5.6°C Ice

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___
Sampled by:
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/18/13 7:40	[signature]	10/18/13 1940				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required #
State where samples were collected from: (MA) RI CT NH NJ NY ME Other ___
Is this project for any of the following: (MA-MCP) Navy USACE Other ___

Reporting Limits: RCS-1

ESS LAB PROJECT ID: 1310392

Electronic Deliverable: Yes X No ___
Format: Excel X Access ___ PDF X Other ___

Co. Name: EPG.	Project #: 270-1311	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Dr. Suite 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: 617-657-0254	Fax #:	Email Address: ccf@envpartners.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
(14) ~~17~~ 17	10/18/13	1745		X	W	VAC	9	1	G	X
(15) ~~18~~ 18	↓	17~~1~~49		X	W	Filter	9	1	G	X
10/19/13 10/21/13 (16)										

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 5.6°C Ice

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- Hexane

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/18/13 7:40		10/18/13 1940				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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

November 8, 2013

C. Carter Fahy
Environmental Partners Group, Inc
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

Project Location: Strawberry Hill-Hull, MA
Client Job Number:
Project Number: 270-1001.00
Laboratory Work Order Number: 13J1211

Enclosed are results of analyses for samples received by the laboratory on October 30, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Environmental Partners Group, Inc
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169
ATTN: C. Carter Fahy

REPORT DATE: 11/8/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 270-1001.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13J1211

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

PROJECT LOCATION: Strawberry Hill-Hull, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Upwind	13J1211-01	Air		EPA TO-10A	
Downwind	13J1211-02	Air		EPA TO-10A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Strawberry Hill-Hull, MA
Date Received: 10/30/2013
Field Sample #: Upwind
Sample ID: 13J1211-01
Sample Matrix: Air
Sampled: 10/29/2013 12:55

Sample Description/Location:
Sub Description/Location:
Flow Controller ID:
Sample Type:

Work Order: 13J1211

EPA TO-10A

Analyte	Total µg Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1221 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1232 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1242 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1248 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1254 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1260 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1262 [1]	ND	0.040		1	11/4/13 12:43	MJC
Aroclor-1268 [1]	ND	0.040		1	11/4/13 12:43	MJC

Surrogates	% Recovery	% REC Limits	
Decachlorobiphenyl [1]	102	60-120	11/4/13 12:43
Tetrachloro-m-xylene [1]	91.2	60-120	11/4/13 12:43

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ANALYTICAL RESULTS

Project Location: Strawberry Hill-Hull, MA
Date Received: 10/30/2013
Field Sample #: Downwind
Sample ID: 13J1211-02
Sample Matrix: Air
Sampled: 10/29/2013 12:55

Sample Description/Location:
Sub Description/Location:
Flow Controller ID:
Sample Type:

Work Order: 13J1211

EPA TO-10A

Analyte	Total µg Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1221 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1232 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1242 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1248 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1254 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1260 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1262 [1]	ND	0.040		1	11/4/13 12:56	MJC
Aroclor-1268 [1]	ND	0.040		1	11/4/13 12:56	MJC

Surrogates	% Recovery	% REC Limits	
Decachlorobiphenyl [1]	105	60-120	11/4/13 12:56
Tetrachloro-m-xylene [1]	91.3	60-120	11/4/13 12:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: TO-10 PREP (Soxhlet)-EPA TO-10A

Lab Number [Field ID]	Batch	Initial [Cartridge	Final [mL]	Date
13J1211-01 [Upwind]	B084234	1.00	2.00	11/02/13
13J1211-02 [Downwind]	B084234	1.00	2.00	11/02/13

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	Total µg Results	Total µg RL	ug/m3 Results	ug/m3 RL	Spike Level Total µg	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B084234 - TO-10 PREP (Soxhlet)											
Blank (B084234-BLK1)					Prepared: 11/02/13 Analyzed: 11/04/13						
Aroclor-1016	ND	0.040									
Aroclor-1221	ND	0.040									
Aroclor-1232	ND	0.040									
Aroclor-1242	ND	0.040									
Aroclor-1248	ND	0.040									
Aroclor-1254	ND	0.040									
Aroclor-1260	ND	0.040									
Aroclor-1262	ND	0.040									
Aroclor-1268	ND	0.040									
Surrogate: Decachlorobiphenyl	*0.385*				*0.400*		*96.4*	*60-120*			
Surrogate: Tetrachloro-m-xylene	*0.330*				*0.400*		*82.6*	*60-120*			
LCS (B084234-BS1)					Prepared: 11/02/13 Analyzed: 11/04/13						
Aroclor-1016	0.0935	0.040			0.100		93.5	62.6-140			
Aroclor-1260	0.0934	0.040			0.100		93.4	63.6-141			
Surrogate: Decachlorobiphenyl	*0.387*				*0.400*		*96.7*	*60-120*			
Surrogate: Tetrachloro-m-xylene	*0.337*				*0.400*		*84.3*	*60-120*			
LCS Dup (B084234-BSD1)					Prepared: 11/02/13 Analyzed: 11/04/13						
Aroclor-1016	0.0914	0.040			0.100		91.4	62.6-140	2.24	24.4	
Aroclor-1260	0.0922	0.040			0.100		92.2	63.6-141	1.32	28.6	
Surrogate: Decachlorobiphenyl	*0.364*				*0.400*		*91.1*	*60-120*			
Surrogate: Tetrachloro-m-xylene	*0.327*				*0.400*		*81.8*	*60-120*			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-10A in Air	
Aroclor-1016	AIHA,NY,NJ
Aroclor-1221	AIHA,NY,NJ
Aroclor-1232	AIHA,NY,NJ
Aroclor-1242	AIHA,NY,NJ
Aroclor-1248	AIHA,NY,NJ
Aroclor-1254	AIHA,NY,NJ
Aroclor-1260	AIHA,NY,NJ
Aroclor-1262	AIHA
Aroclor-1268	AIHA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

ESS Laboratory 13J1211

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners Group	Project #:	Project Name (20 Char. or less): Strawberry Hill	
Contact Person: Carter Fahy	Address: 1900 Crown Colony Suite 402		
City: Quincy	State: MA	Zip: 02169	PO#:
Telephone #: (617) 657-0200	Fax #:	Email Address: cf@envpartners.com	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCBs												
01	10/29/13	955-1255	X		~~AIR~~ F	Upwind (9:55-12:55)		1	Cyn	X												
02	10/29/13	955-1255	X		~~AIR~~ F	Downwind (9:55-12:55)		1	↓	X												

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ____
Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: AMP

Comments: Samples collected through 5L per minute air pump

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J NESTEL	10/30/13 11 am	[signature]	10/31/13 11a	[signature]	11/20/13 1 pm	Kenneth Bo 3.5	10/30/13 1815
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

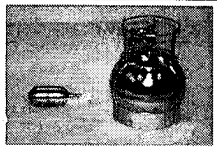
*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

Page 10 of 12 13J1211_1 Contest_Final 11 08 13 0608



www.contestlabs.com

con-test® ANALYTICAL LABORATORY

AIR Only Receipt Checklist

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

CLIENT NAME: Env. Partners Grp. RECEIVED BY: KOB DATE: 10-30-13

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) Are there any samples "On Hold"? Yes (No) Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

6) Location where samples are stored: Air lab

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

7) Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.5°C

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)		
Tedlar Bags		
TO-17 Tubes		
Regulators		
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/(TO-10A)/TO-13) PUFs	2	Low Vol.
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: Lots 102313-09, 102313-08

Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**
Log-In Technician Initials: KOB **Date/Time:** 10-30-13 1815

Doc #278 Rev. 3 August 2013

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

October 30, 2013

C. Carter Fahy
Environmental Partners Group, Inc
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

Project Location: Strawberry Hill-Hull, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13J1064

Enclosed are results of analyses for samples received by the laboratory on October 28, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Environmental Partners Group, Inc
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169
ATTN: C. Carter Fahy

REPORT DATE: 10/30/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13J1064

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

PROJECT LOCATION: Strawberry Hill-Hull, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
102513-Up	13J1064-01	Air		EPA TO-10A	
102513-Down	13J1064-02	Air		EPA TO-10A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Strawberry Hill-Hull, MA
Date Received: 10/28/2013
Field Sample #: 102513-Up
Sample ID: 13J1064-01
Sample Matrix: Air
Sampled: 10/28/2013 15:00

Sample Description/Location:
Sub Description/Location:
Flow Controller ID:
Sample Type:
Air Volume L: 2550

Work Order: 13J1064

EPA TO-10A

Analyte	Total µg Results	Total µg RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1221 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1232 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1242 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1248 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1254 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1260 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1262 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG
Aroclor-1268 [1]	ND	0.040		ND	0.016	1	10/29/13 17:53	PJG

Surrogates	% Recovery	% REC Limits	
Decachlorobiphenyl [1]	96.1	60-120	10/29/13 17:53
Tetrachloro-m-xylene [1]	89.8	60-120	10/29/13 17:53

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Strawberry Hill-Hull, MA
Date Received: 10/28/2013
Field Sample #: 102513-Down
Sample ID: 13J1064-02
Sample Matrix: Air
Sampled: 10/28/2013 15:00

Sample Description/Location:
Sub Description/Location:
Flow Controller ID:
Sample Type:
Air Volume L: 2550

Work Order: 13J1064

EPA TO-10A

Analyte	Total µg Results	Total µg RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1221 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1232 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1242 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1248 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1254 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1260 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1262 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG
Aroclor-1268 [1]	ND	0.040		ND	0.016	1	10/29/13 18:06	PJG

Surrogates	% Recovery	% REC Limits	
Decachlorobiphenyl [1]	95.9	60-120	10/29/13 18:06
Tetrachloro-m-xylene [1]	85.8	60-120	10/29/13 18:06

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Sample Extraction Data

Prep Method: TO-10 PREP (Soxhlet)-EPA TO-10A

Lab Number [Field ID]	Batch	Initial [Cartridge	Final [mL]	Date
13J1064-01 [102513-Up]	B083828	1.00	2.00	10/28/13
13J1064-02 [102513-Down]	B083828	1.00	2.00	10/28/13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	Total µg Results	Total µg RL	ug/m3 Results	ug/m3 RL	Spike Level Total µg	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B083828 - TO-10 PREP (Soxhlet)											
Blank (B083828-BLK1)					Prepared: 10/28/13 Analyzed: 10/29/13						
Aroclor-1016	ND	0.040									
Aroclor-1221	ND	0.040									
Aroclor-1232	ND	0.040									
Aroclor-1242	ND	0.040									
Aroclor-1248	ND	0.040									
Aroclor-1254	ND	0.040									
Aroclor-1260	ND	0.040									
Aroclor-1262	ND	0.040									
Aroclor-1268	ND	0.040									
Surrogate: Decachlorobiphenyl	*0.323*				*0.400*		*80.7*	*60-120*			
Surrogate: Tetrachloro-m-xylene	*0.325*				*0.400*		*81.3*	*60-120*			
LCS (B083828-BS1)					Prepared: 10/28/13 Analyzed: 10/29/13						
Aroclor-1016	0.0757	0.040			0.100		75.7	62.6-140			
Aroclor-1260	0.0829	0.040			0.100		82.9	63.6-141			
Surrogate: Decachlorobiphenyl	*0.360*				*0.400*		*90.1*	*60-120*			
Surrogate: Tetrachloro-m-xylene	*0.305*				*0.400*		*76.2*	*60-120*			
LCS Dup (B083828-BSD1)					Prepared: 10/28/13 Analyzed: 10/29/13						
Aroclor-1016	0.0916	0.040			0.100		91.6	62.6-140	19.0	24.4	
Aroclor-1260	0.0971	0.040			0.100		97.1	63.6-141	15.7	28.6	
Surrogate: Decachlorobiphenyl	*0.394*				*0.400*		*98.4*	*60-120*			
Surrogate: Tetrachloro-m-xylene	*0.355*				*0.400*		*88.7*	*60-120*			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-10A in Air	
Aroclor-1016	AIHA,NY,NJ
Aroclor-1221	AIHA,NY,NJ
Aroclor-1232	AIHA,NY,NJ
Aroclor-1242	AIHA,NY,NJ
Aroclor-1248	AIHA,NY,NJ
Aroclor-1254	AIHA,NY,NJ
Aroclor-1260	AIHA,NY,NJ
Aroclor-1262	AIHA
Aroclor-1268	AIHA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

13J1064

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other 2 day
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
(MA-MCP) Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID

Electronic Deliverable Yes ✓ No ___
Format: Excel ✓ Access ___ PDF ✓ Other _____

Co. Name	Project #	Project Name (20 Char. or less)
EPG		Strawberry Hill

Contact Person	Address
Carter Fahy	1900 Crown Colony Dr. Suite 402

City	State	Zip	PO#
Quincy	MA	02169	

Telephone #	Fax #	Email Address
617-657-0254		cf@envpartners.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
-01	10/25/13	0830-1500	X		F	102513-UP	—	1	G	X
-02	10/25/13	0830-1500	X		F	102513-Down	—	1	G	X

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No

Seals Intact ___ Yes ___ No NA: ___

Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: CCF

Comments: 5L/min pump.

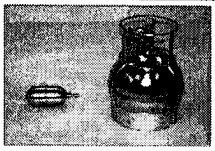
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/28/13 12:55		10/28/13 1715	Kenneth Bu 3.6	10/28/13 1715
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A



www.contestlabs.com

con-test® ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: Environmental Partners **RECEIVED BY:** KOB **DATE:** 10-28-13

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) Are there any samples "On Hold"? Yes (No) Stored where: _____

5) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

6) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

7) Temperature °C by Temp blank _____ **Temperature °C by Temp gun** 3.6°

Containers received at Con-Test

		# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)			
Tedlar Bags			
TO-17 Tubes			
Regulators			
Restrictors			
Hg/Hopcalite Tube (NIOSH 6009)			
(TO-4A/TO-10A/TO-13) PUFs		2	# Low Vol.
PCB Florisil Tubes (NIOSH 5503)			
Air cassette			
PM 2.5/PM 10			
TO-11A Cartridges			
Other			

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: Lots: ~~#~~ 102313-06, -07

Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	KOB ~~T~~ NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**
Log-In Technician Initials: KOB **Date/Time:** 10-28-13 1715

Doc #278 Rev. 3 August 2013

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

9/20/13 (EA)

Turn Time X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 1309443

Electronic Deliverable Yes X No ____
Format: Excel X Access ____ PDF X Other ____

Co. Name: Environmental Partners Corp
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr #402
City: Quincy State: MA Zip: 02169
PO#:
Telephone #: 617-657-0200
Fax #:
Email Address: cfa@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	VOA (1)	SVOA	Pesticides	Herbicides	Flashpoint	Corrosivity/pH	Reactivity Sulfide	Reactivity Cyanide	RCRA 8	TCLP	EPH	Pb
1	9-18-13	1200			SD	Paint Chip	1	1	G	X												
2	↓	1336			S	319A	1	1	G	X												
3.		1430			S	320A	1	1	G	X												
4		1215			S	186A	1,4	7	G,V	X	X	X	X	X	X	X	X	X				
5		1215			S	186B	1	1	G	X												
6		1120			S	241A	1	2	G	X									X	X	X	X
7		1130			S	229A	1	2	G	X									X	X	X	X
8		1236			S	160A - (2) 9/20/13 (EA)	1	~~2~~ 1	G	X									X	X	X	X
9		1236			S	160B	1	1	G	X												
10		1300			S	90A - (2) 9/20/13 (EA)	1	~~2~~ 1	G	X									X	X	X	X

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 1.6 + 1.3 Ice + Ice Packs KH

Internal Use Only
[✓] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by: Stephen Gabriel

(2) Not sure if enough soil for all analyses! (Received only 1 4oz Jar) 9/23/13 (EA)

Comments: (1) LL VOCs frozen 9/20/13 @ 2200 gr (EA)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1pm	[signature]	9/20/13 3:00	[signature]	9/20/13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

Sean Coakley
Atlantic North Creek
92 Merrimac Street
Woburn, MA 01801

RE: Hull MA (N/A)
ESS Laboratory Work Order Number: 1310607

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 11:22 am, Nov 04, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses
CTS - Cranston, RI Sample Crushing Fee

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

SAMPLE RECEIPT

The following samples were received on October 31, 2013 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1310607-01	No 5 Septic Graval	Solid	6010B, 7471B, 8082A, EPH8270, MADEP-EPH
1310607-02	2in Crushed Stone Graval	Solid	6010B, 7471B, 8082A, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: No 5 Septic Graval
Date Sampled: 10/31/13 12:43
Percent Solids: 98

ESS Laboratory Work Order: 1310607
ESS Laboratory Sample ID: 1310607-01
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.3)		6010B		1	JP	11/01/13 17:49	2.26	100	CK30102
Barium	ND (2.3)		6010B		1	JP	11/01/13 17:49	2.26	100	CK30102
Cadmium	ND (0.46)		6010B		1	JP	11/01/13 17:49	2.26	100	CK30102
Chromium	ND (0.9)		6010B		1	JP	11/01/13 17:49	2.26	100	CK30102
Lead	ND (4.5)		6010B		1	JP	11/01/13 17:49	2.26	100	CK30102
Mercury	ND (0.031)		7471B		1	NAR	11/01/13 15:45	0.65	40	CK30119
Selenium	ND (4.5)		6010B		1	JP	11/01/13 17:49	2.26	100	CK30102
Silver	ND (0.46)		6010B		1	JP	11/01/13 17:49	2.26	100	CK30102

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: No 5 Septic Graval
Date Sampled: 10/31/13 12:43
Percent Solids: 98
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310607
ESS Laboratory Sample ID: 1310607-01
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/31/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1221	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1232	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1242	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1248	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1254	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1260	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1262	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105
Aroclor 1268	ND (0.0515)		8082A		1	11/01/13 18:10		CJ33105

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*86 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: No 5 Septic Graval
Date Sampled: 10/31/13 12:43
Percent Solids: 98
Initial Volume: 24.25
Final Volume: 1
Extraction Method: 3540

ESS Laboratory Work Order: 1310607
ESS Laboratory Sample ID: 1310607-01
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 10/31/13 17:28

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (15.9)		MADEP-EPH		1	IBM	11/01/13 14:55	CWK0005	CJ33119
C19-C36 Aliphatics1	ND (15.9)		MADEP-EPH		1	IBM	11/01/13 14:55	CWK0005	CJ33119
C11-C22 Unadjusted Aromatics1	ND (15.9)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
C11-C22 Aromatics1,2	ND (15.9)		EPH8270			IBM	11/01/13 14:50		[CALC]
2-Methylnaphthalene	ND (0.21)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Acenaphthene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Naphthalene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Phenanthrene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Acenaphthylene	ND (0.21)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Anthracene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Benzo(a)anthracene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Benzo(a)pyrene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Benzo(b)fluoranthene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Benzo(g,h,i)perylene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Benzo(k)fluoranthene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Chrysene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Dibenzo(a,h)Anthracene	ND (0.21)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Fluoranthene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Fluorene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Indeno(1,2,3-cd)Pyrene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119
Pyrene	ND (0.42)		EPH8270		1	IBM	11/01/13 14:50	CWK0006	CJ33119

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*78 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*94 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*87 %*		*40-140*
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 2in Crushed Stone Graval
Date Sampled: 10/31/13 12:43
Percent Solids: 97

ESS Laboratory Work Order: 1310607
ESS Laboratory Sample ID: 1310607-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.1)		6010B		1	JP	11/01/13 17:53	2.5	100	CK30102
Barium	**11.7** (2.1)		6010B		1	JP	11/01/13 17:53	2.5	100	CK30102
Cadmium	ND (0.42)		6010B		1	JP	11/01/13 17:53	2.5	100	CK30102
Chromium	**4.2** (0.8)		6010B		1	JP	11/01/13 17:53	2.5	100	CK30102
Lead	**8.4** (4.1)		6010B		1	JP	11/01/13 17:53	2.5	100	CK30102
Mercury	ND (0.029)		7471B		1	NAR	11/01/13 13:26	0.71	40	CK30119
Selenium	ND (4.1)		6010B		1	JP	11/01/13 17:53	2.5	100	CK30102
Silver	ND (0.42)		6010B		1	JP	11/01/13 17:53	2.5	100	CK30102

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 2in Crushed Stone Graval
Date Sampled: 10/31/13 12:43
Percent Solids: 97
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1310607
ESS Laboratory Sample ID: 1310607-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/31/13 18:00
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1221	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1232	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1242	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1248	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1254	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1260	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1262	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105
Aroclor 1268	ND (0.0518)		8082A		1	11/01/13 18:29		CJ33105

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 2in Crushed Stone Graval
Date Sampled: 10/31/13 12:43
Percent Solids: 97
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3540

ESS Laboratory Work Order: 1310607
ESS Laboratory Sample ID: 1310607-02
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 10/31/13 17:28

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (19.0)		MADEP-EPH		1	IBM	11/01/13 15:45	CWK0005	CJ33119
C19-C36 Aliphatics1	ND (19.0)		MADEP-EPH		1	IBM	11/01/13 15:45	CWK0005	CJ33119
C11-C22 Unadjusted Aromatics1	ND (19.0)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
C11-C22 Aromatics1,2	ND (19.0)		EPH8270			IBM	11/01/13 15:37		[CALC]
2-Methylnaphthalene	ND (0.25)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Acenaphthene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Naphthalene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Phenanthrene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Acenaphthylene	ND (0.25)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Anthracene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Benzo(a)anthracene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Benzo(a)pyrene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Benzo(b)fluoranthene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Benzo(g,h,i)perylene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Benzo(k)fluoranthene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Chrysene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Dibenzo(a,h)Anthracene	ND (0.25)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Fluoranthene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Fluorene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Indeno(1,2,3-cd)Pyrene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119
Pyrene	ND (0.51)		EPH8270		1	IBM	11/01/13 15:37	CWK0006	CJ33119

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*57 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*81 %*		*40-140*
Surrogate: O-Terphenyl	*65 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CK30102 - 3050B										
Blank										
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
LCS										
Arsenic	85.6	8.3	mg/kg wet	99.60		86	80-120			
Barium	274	8.3	mg/kg wet	310.0		88	80-120			
Cadmium	165	1.68	mg/kg wet	182.0		91	80-120			
Chromium	126	3.3	mg/kg wet	136.0		93	80-120			
Lead	103	16.7	mg/kg wet	115.0		90	80-120			
Selenium	128	16.7	mg/kg wet	150.0		85	80-120			
Silver	36.9	1.68	mg/kg wet	40.40		91	80-120			
LCS Dup										
Arsenic	82.7	8.3	mg/kg wet	99.60		83	80-120	3	20	
Barium	265	8.3	mg/kg wet	310.0		86	80-120	3	20	
Cadmium	165	1.68	mg/kg wet	182.0		91	80-120	0.3	20	
Chromium	122	3.3	mg/kg wet	136.0		90	80-120	3	20	
Lead	101	16.7	mg/kg wet	115.0		88	80-120	2	20	
Selenium	127	16.7	mg/kg wet	150.0		84	80-120	0.8	20	
Silver	36.3	1.68	mg/kg wet	40.40		90	80-120	2	20	
Batch CK30119 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	22.4	3.25	mg/kg wet	19.90		112	80-120			
LCS Dup										
Mercury	22.2	3.00	mg/kg wet	19.90		112	80-120	0.7	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ33105 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ33105 - 3540										
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ33105 - 3540										
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ33105 - 3540										
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0271*		mg/kg wet	*0.02500*		*109*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0281*		mg/kg wet	*0.02500*		*112*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0259*		mg/kg wet	*0.02500*		*103*	*30-150*			
LCS										
Aroclor 1016	0.519	0.0500	mg/kg wet	0.5000		104	40-140			
Aroclor 1260	0.522	0.0500	mg/kg wet	0.5000		104	40-140			
Surrogate: Decachlorobiphenyl	*0.0282*		mg/kg wet	*0.02500*		*113*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0292*		mg/kg wet	*0.02500*		*117*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0264*		mg/kg wet	*0.02500*		*106*	*30-150*			
LCS Dup										
Aroclor 1016	0.557	0.0500	mg/kg wet	0.5000		111	40-140	7	30	
Aroclor 1260	0.545	0.0500	mg/kg wet	0.5000		109	40-140	4	30	
Surrogate: Decachlorobiphenyl	*0.0288*		mg/kg wet	*0.02500*		*115*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0298*		mg/kg wet	*0.02500*		*119*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0259*		mg/kg wet	*0.02500*		*104*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0290*		mg/kg wet	*0.02500*		*116*	*30-150*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ33119 - 3540										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.49*		mg/kg wet	*2.000*		*75*	*40-140*			
Blank										

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ33119 - 3540										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.66*		mg/kg wet	*2.000*		*83*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.60*		mg/kg wet	*2.000*		*80*	*40-140*			
Surrogate: O-Terphenyl	*1.34*		mg/kg wet	*2.000*		*67*	*40-140*			
LCS										
C19-C36 Aliphatics1	10.4	15.0	mg/kg wet	16.00		65	40-140			
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		71	40-140			
Decane (C10)	0.9	0.5	mg/kg wet	2.000		44	40-140			
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Dodecane (C12)	0.9	0.5	mg/kg wet	2.000		46	40-140			
Eicosane (C20)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Hexadecane (C16)	1.1	0.5	mg/kg wet	2.000		57	40-140			
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Nonane (C9)	0.7	0.5	mg/kg wet	2.000		35	30-140			
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		76	40-140			
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		68	40-140			
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000		76	40-140			
Tetradecane (C14)	1.0	0.5	mg/kg wet	2.000		51	40-140			
Triacontane (C30)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Surrogate: 1-Chlorooctadecane	*1.21*		mg/kg wet	*2.000*		*61*	*40-140*			
LCS										
2-Methylnaphthalene	1.27	0.20	mg/kg wet	2.000		64	40-140			
Acenaphthene	1.34	0.40	mg/kg wet	2.000		67	40-140			
Acenaphthylene	1.33	0.20	mg/kg wet	2.000		66	40-140			
Anthracene	1.50	0.40	mg/kg wet	2.000		75	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ33119 - 3540										
Benzo(a)anthracene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Benzo(a)pyrene	1.79	0.40	mg/kg wet	2.000		89	40-140			
Benzo(b)fluoranthene	1.72	0.40	mg/kg wet	2.000		86	40-140			
Benzo(g,h,i)perylene	1.67	0.40	mg/kg wet	2.000		83	40-140			
Benzo(k)fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140			
C11-C22 Unadjusted Aromatics1	34.1	15.0	mg/kg wet	34.00		100	40-140			
Chrysene	1.60	0.40	mg/kg wet	2.000		80	40-140			
Dibenzo(a,h)Anthracene	1.83	0.20	mg/kg wet	2.000		92	40-140			
Fluoranthene	1.61	0.40	mg/kg wet	2.000		80	40-140			
Fluorene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Indeno(1,2,3-cd)Pyrene	1.56	0.40	mg/kg wet	2.000		78	40-140			
Naphthalene	1.22	0.40	mg/kg wet	2.000		61	40-140			
Phenanthrene	1.61	0.40	mg/kg wet	2.000		80	40-140			
Pyrene	1.60	0.40	mg/kg wet	2.000		80	40-140			
Surrogate: 2-Bromonaphthalene	*1.71*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.64*		mg/kg wet	*2.000*		*82*	*40-140*			
Surrogate: O-Terphenyl	*1.51*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	10.9	15.0	mg/kg wet	16.00		68	40-140	6	25	
C9-C18 Aliphatics1	9.1	15.0	mg/kg wet	12.00		76	40-140	6	25	
Decane (C10)	0.9	0.5	mg/kg wet	2.000		47	40-140	6	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		81	40-140	7	25	
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		50	40-140	8	25	
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140	8	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140	7	25	
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		64	40-140	10	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140	6	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		77	40-140	8	25	
Nonane (C9)	0.7	0.5	mg/kg wet	2.000		36	30-140	5	25	
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		81	40-140	7	25	
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		74	40-140	9	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		81	40-140	7	25	
Tetradecane (C14)	1.1	0.5	mg/kg wet	2.000		56	40-140	10	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		80	40-140	6	25	
Surrogate: 1-Chlorooctadecane	*1.38*		mg/kg wet	*2.000*		*69*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.27	0.20	mg/kg wet	2.000		64	40-140	0.06	25	
Acenaphthene	1.35	0.40	mg/kg wet	2.000		67	40-140	0.7	25	
Acenaphthylene	1.40	0.20	mg/kg wet	2.000		70	40-140	5	25	
Anthracene	1.48	0.40	mg/kg wet	2.000		74	40-140	1	25	
Benzo(a)anthracene	1.61	0.40	mg/kg wet	2.000		80	40-140	2	25	

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ33119 - 3540										
Benzo(a)pyrene	1.78	0.40	mg/kg wet	2.000		89	40-140	0.6	25	
Benzo(b)fluoranthene	1.71	0.40	mg/kg wet	2.000		85	40-140	0.6	25	
Benzo(g,h,i)perylene	1.64	0.40	mg/kg wet	2.000		82	40-140	1	25	
Benzo(k)fluoranthene	1.64	0.40	mg/kg wet	2.000		82	40-140	1	25	
C11-C22 Unadjusted Aromatics1	33.7	15.0	mg/kg wet	34.00		99	40-140	1	25	
Chrysene	1.58	0.40	mg/kg wet	2.000		79	40-140	2	25	
Dibenzo(a,h)Anthracene	1.78	0.20	mg/kg wet	2.000		89	40-140	3	25	
Fluoranthene	1.60	0.40	mg/kg wet	2.000		80	40-140	0.5	25	
Fluorene	1.45	0.40	mg/kg wet	2.000		73	40-140	1	25	
Indeno(1,2,3-cd)Pyrene	1.53	0.40	mg/kg wet	2.000		77	40-140	2	25	
Naphthalene	1.22	0.40	mg/kg wet	2.000		61	40-140	0.4	25	
Phenanthrene	1.58	0.40	mg/kg wet	2.000		79	40-140	2	25	
Pyrene	1.61	0.40	mg/kg wet	2.000		80	40-140	0.4	25	
Surrogate: 2-Bromonaphthalene	*1.81*		mg/kg wet	*2.000*		*91*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: O-Terphenyl	*1.49*		mg/kg wet	*2.000*		*74*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310607

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Atlantic North Creek
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100607
Date Project Due: 11/4/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **3.1**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? ~~**No**~~ Yes CCT 10/31/13
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**

ESS Sample IDs: 1310607-1 AC
Sub Lab: CTS
Analysis: Cmsh
TAT: $ CCT 10/31/13 2 day

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP

Completed By: [signature] Date/Time: 10/31/13 1659
Reviewed By: [signature] Date/Time: 10/31/13 17:00

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other 2 Days
If faster than 5 days, prior approval by laboratory is required #_____
State where samples were collected from: MA RI CT NH NJ NY ME Other _____
Is this project for any of the following: MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1310607

Electronic Deliverable Yes ✓ No ___
Format: Excel ___ Access ___ PDF ✓ Other _____

Co. Name: North Atlantic Creek
Project #:
Project Name (20 Char. or less): Hull MA
Contact Person: Sean Coakley
Address: 92 Merrimac st
City: Woburn State: MA Zip: 01801 PO#: 526
Telephone #: (617) 908-1328
Fax #:
Email Address: info@atlanticpowercleaning.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	CTS Cus (1)	EPH w/PAH (1)	PCB (1)	RCRA 8 metals (1)
1	10/31/13	12:43			SD	#5 Septic Gravel					X	X	X
2	10/31/13	12:43			SD	2" crushed Stone, Gravel				X	X	X	X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 3.1°C
Bag Ice
BB 10/31/13 1550

Internal Use Only
[✓] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments: (1) Per Client 10/31/13

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	10/31/13 12:45	Bill Burson	10/31/13 1245	Bill Burson	10/31/13 1550	[signature]	10/31/13 1625
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

Sean Coakley
Atlantic North Creek
92 Merrimac Street
Woburn, MA 01801

RE: Hull MA (N/A)
ESS Laboratory Work Order Number: 1310496

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:44 pm, Oct 29, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses
CTS - Cranston, RI Sample Crushing Fee

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

SAMPLE RECEIPT

The following samples were received on October 24, 2013 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1310496-01	Compost Organic Soil Blend	Soil	6010B, 7471B, 8082A, EPH8270, MADEP-EPH
1310496-02	3/4 Stone from South Shore	Solid	6010B, 7471B, 8082A, EPH8270, MADEP-EPH
1310496-03	3/4 Stone from P.A Land	Solid	6010B, 7471B, 8082A, EPH8270, MADEP-EPH

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

PROJECT NARRATIVE

MADEP-EPH Extractable Petroleum Hydrocarbons

CWJ0313-CCV2	**Continuing Calibration recovery is below lower control limit (C-).**
	Benzo(g,h,i)perylene (78% @ 80-120%)
CWJ0342-CCV2	**Continuing Calibration recovery is above upper control limit (C+).**
	Dibenzo(a,h)Anthracene (122% @ 80-120%)

Total Metals Solid

1310496-02	**Elevated Method Reporting Limits due to sample matrix (EL).**
	Selenium
1310496-03	**Elevated Method Reporting Limits due to sample matrix (EL).**
	Selenium
CJ32511-BSD1	**Blank Spike recovery is below lower control limit (B-).**
	Selenium (79% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: Compost Organic Soil Blend
Date Sampled: 10/24/13 15:39
Percent Solids: 68

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**7.3** (2.6)		6010B		1	KJK	10/25/13 19:20	2.85	100	CJ32511
Barium	**46.0** (2.6)		6010B		1	KJK	10/25/13 19:20	2.85	100	CJ32511
Cadmium	ND (0.52)		6010B		1	KJK	10/25/13 19:20	2.85	100	CJ32511
Chromium	**11.4** (1.0)		6010B		1	KJK	10/25/13 19:20	2.85	100	CJ32511
Lead	**85.1** (5.2)		6010B		1	KJK	10/25/13 19:20	2.85	100	CJ32511
Mercury	**0.099** (0.047)		7471B		1	KJK	10/26/13 14:50	0.62	40	CJ32533
Selenium	ND (5.2)		6010B		1	KJK	10/25/13 19:20	2.85	100	CJ32511
Silver	ND (0.52)		6010B		1	KJK	10/25/13 19:20	2.85	100	CJ32511

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: Compost Organic Soil Blend
Date Sampled: 10/24/13 15:39
Percent Solids: 68
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1221	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1232	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1242	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1248	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1254	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1260	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1262	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817
Aroclor 1268	ND (0.0771)		8082A		1	10/26/13 20:32		CJ32817

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: Compost Organic Soil Blend
Date Sampled: 10/24/13 15:39
Percent Solids: 68
Initial Volume: 24
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 10/25/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (23.0)		MADEP-EPH		1	VSC	10/25/13 14:51	CWJ0312	CJ32402
C19-C36 Aliphatics1	**28.6** (23.0)		MADEP-EPH		1	VSC	10/25/13 14:51	CWJ0312	CJ32402
C11-C22 Unadjusted Aromatics1	**28.7** (23.0)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
C11-C22 Aromatics1,2	**28.7** (23.0)		EPH8270			VSC	10/25/13 18:47		[CALC]
2-Methylnaphthalene	ND (0.31)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Acenaphthene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Naphthalene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Phenanthrene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Acenaphthylene	ND (0.31)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Anthracene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Benzo(a)anthracene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Benzo(a)pyrene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Benzo(b)fluoranthene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Benzo(g,h,i)perylene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Benzo(k)fluoranthene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Chrysene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Dibenzo(a,h)Anthracene	ND (0.31)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Fluoranthene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Fluorene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Indeno(1,2,3-cd)Pyrene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402
Pyrene	ND (0.61)		EPH8270		1	VSC	10/25/13 18:47	CWJ0331	CJ32402

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*44 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*79 %*		*40-140*
Surrogate: O-Terphenyl	*62 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 3/4 Stone from South Shore
Date Sampled: 10/24/13 15:39
Percent Solids: 100

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-02
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**2.4** (1.6)		6010B		1	KJK	10/25/13 19:24	3.12	100	CJ32511
Barium	**12.6** (1.6)		6010B		1	KJK	10/25/13 19:24	3.12	100	CJ32511
Cadmium	ND (0.32)		6010B		1	KJK	10/25/13 19:24	3.12	100	CJ32511
Chromium	**11.2** (0.6)		6010B		1	KJK	10/25/13 19:24	3.12	100	CJ32511
Lead	**6.1** (3.2)		6010B		1	KJK	10/25/13 19:24	3.12	100	CJ32511
Mercury	ND (0.029)		7471B		1	KJK	10/26/13 14:58	0.69	40	CJ32533
Selenium	**EL** ND (6.4)		6010B		2	SVD	10/28/13 15:19	3.12	100	CJ32511
Silver	ND (0.32)		6010B		1	KJK	10/25/13 19:24	3.12	100	CJ32511

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 3/4 Stone from South Shore
Date Sampled: 10/24/13 15:39
Percent Solids: 100
Initial Volume: 10
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-02
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1221	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1232	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1242	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1248	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1254	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1260	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1262	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817
Aroclor 1268	ND (0.100)		8082A		1	10/26/13 20:51		CJ32817

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*96 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*113 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*96 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 3/4 Stone from South Shore
Date Sampled: 10/24/13 15:39
Percent Solids: 100
Initial Volume: 25.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-02
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 10/25/13 10:00

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (14.8)		MADEP-EPH		1	IBM	10/28/13 12:19	CWJ0341	CJ32402
C19-C36 Aliphatics1	ND (14.8)		MADEP-EPH		1	IBM	10/28/13 12:19	CWJ0341	CJ32402
C11-C22 Unadjusted Aromatics1	ND (14.8)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
C11-C22 Aromatics1,2	ND (14.8)		EPH8270			IBM	10/28/13 12:02		[CALC]
2-Methylnaphthalene	ND (0.20)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Acenaphthene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Naphthalene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Phenanthrene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Acenaphthylene	ND (0.20)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Anthracene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Benzo(a)anthracene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Benzo(a)pyrene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Benzo(b)fluoranthene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Benzo(g,h,i)perylene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Benzo(k)fluoranthene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Chrysene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Dibenzo(a,h)Anthracene	ND (0.20)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Fluoranthene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Fluorene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Indeno(1,2,3-cd)Pyrene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402
Pyrene	ND (0.39)		EPH8270		1	IBM	10/28/13 12:02	CWJ0342	CJ32402

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*53 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*74 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*59 %*		*40-140*
Surrogate: O-Terphenyl	*55 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 3/4 Stone from P.A Land
Date Sampled: 10/24/13 15:39
Percent Solids: 100

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-03
Sample Matrix: Solid
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**2.7** (1.8)		6010B		1	KJK	10/25/13 19:30	2.75	100	CJ32511
Barium	**15.0** (1.8)		6010B		1	KJK	10/25/13 19:30	2.75	100	CJ32511
Cadmium	ND (0.37)		6010B		1	KJK	10/25/13 19:30	2.75	100	CJ32511
Chromium	**12.9** (0.7)		6010B		1	KJK	10/25/13 19:30	2.75	100	CJ32511
Lead	**7.4** (3.6)		6010B		1	KJK	10/25/13 19:30	2.75	100	CJ32511
Mercury	ND (0.031)		7471B		1	KJK	10/26/13 15:01	0.65	40	CJ32533
Selenium	**EL** ND (7.3)		6010B		2	SVD	10/28/13 15:24	2.75	100	CJ32511
Silver	ND (0.37)		6010B		1	KJK	10/25/13 19:30	2.75	100	CJ32511

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 3/4 Stone from P.A Land
Date Sampled: 10/24/13 15:39
Percent Solids: 100
Initial Volume: 10
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-03
Sample Matrix: Solid
Units: mg/kg dry
Analyst: TAJ
Prepared: 10/25/13 17:30
Cleanup Method: 3665A

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1221	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1232	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1242	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1248	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1254	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1260	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1262	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817
Aroclor 1268	ND (0.100)		8082A		1	10/26/13 21:10		CJ32817

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*104 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA
Client Sample ID: 3/4 Stone from P.A Land
Date Sampled: 10/24/13 15:39
Percent Solids: 100
Initial Volume: 12.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1310496
ESS Laboratory Sample ID: 1310496-03
Sample Matrix: Solid
Units: mg/kg dry

Prepared: 10/28/13 17:02

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (30.3)		MADEP-EPH		1	IBM	10/29/13 11:23	CWJ0341	CJ32834
C19-C36 Aliphatics1	ND (30.3)		MADEP-EPH		1	IBM	10/29/13 11:23	CWJ0341	CJ32834
C11-C22 Unadjusted Aromatics1	ND (30.3)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
C11-C22 Aromatics1,2	ND (30.3)		EPH8270			IBM	10/29/13 13:20		[CALC]
2-Methylnaphthalene	ND (0.40)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Acenaphthene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Naphthalene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Phenanthrene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Acenaphthylene	ND (0.40)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Anthracene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Benzo(a)anthracene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Benzo(a)pyrene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Benzo(b)fluoranthene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Benzo(g,h,i)perylene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Benzo(k)fluoranthene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Chrysene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Dibenzo(a,h)Anthracene	ND (0.40)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Fluoranthene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Fluorene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Indeno(1,2,3-cd)Pyrene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834
Pyrene	ND (0.81)		EPH8270		1	IBM	10/29/13 13:20	CWJ0353	CJ32834

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*63 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*73 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CJ32511 - 3050B										
Blank										
Arsenic	ND	2.5	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
LCS										
Arsenic	87.3	7.6	mg/kg wet	99.60		88	80-120			
Barium	278	7.6	mg/kg wet	310.0		90	80-120			
Cadmium	161	1.52	mg/kg wet	182.0		88	80-120			
Chromium	123	3.0	mg/kg wet	136.0		91	80-120			
Lead	103	15.2	mg/kg wet	115.0		90	80-120			
Selenium	128	15.2	mg/kg wet	150.0		85	80-120			
Silver	37.1	1.52	mg/kg wet	40.40		92	80-120			
LCS Dup										
Arsenic	80.7	7.6	mg/kg wet	99.60		81	80-120	8	20	
Barium	259	7.6	mg/kg wet	310.0		84	80-120	7	20	
Cadmium	147	1.52	mg/kg wet	182.0		81	80-120	9	20	
Chromium	114	3.0	mg/kg wet	136.0		84	80-120	8	20	
Lead	96.8	15.2	mg/kg wet	115.0		84	80-120	6	20	
Selenium	118	15.2	mg/kg wet	150.0		79	80-120	8	20	B-
Silver	33.9	1.52	mg/kg wet	40.40		84	80-120	9	20	
Batch CJ32533 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	23.7	3.19	mg/kg wet	19.90		119	80-120			
LCS Dup										
Mercury	21.8	3.25	mg/kg wet	19.90		110	80-120	8	20	
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32817 - 3540C										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32817 - 3540C										
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32817 - 3540C										
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CJ32817 - 3540C										
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0256*		mg/kg wet	*0.02500*		*102*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0255*		mg/kg wet	*0.02500*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0188*		mg/kg wet	*0.02500*		*75*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0208*		mg/kg wet	*0.02500*		*83*	*30-150*			
LCS										
Aroclor 1016	0.469	0.0500	mg/kg wet	0.5000		94	40-140			
Aroclor 1260	0.491	0.0500	mg/kg wet	0.5000		98	40-140			
Surrogate: Decachlorobiphenyl	*0.0266*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0264*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0204*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0216*		mg/kg wet	*0.02500*		*86*	*30-150*			
LCS Dup										
Aroclor 1016	0.566	0.0500	mg/kg wet	0.5000		113	40-140	19	30	
Aroclor 1260	0.519	0.0500	mg/kg wet	0.5000		104	40-140	6	30	
Surrogate: Decachlorobiphenyl	*0.0278*		mg/kg wet	*0.02500*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0276*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0213*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ32402 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.31*		mg/kg wet	*2.000*		*65*	*40-140*			
Blank										

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ32402 - 3546										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.51*		mg/kg wet	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.44*		mg/kg wet	*2.000*		*72*	*40-140*			
Surrogate: O-Terphenyl	*1.39*		mg/kg wet	*2.000*		*70*	*40-140*			
LCS										
C19-C36 Aliphatics1	11.0	15.0	mg/kg wet	16.00		69	40-140			
C9-C18 Aliphatics1	9.1	15.0	mg/kg wet	12.00		76	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		48	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		51	40-140			
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		68	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		38	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		59	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Surrogate: 1-Chlorooctadecane	*1.41*		mg/kg wet	*2.000*		*70*	*40-140*			
LCS										
2-Methylnaphthalene	1.13	0.20	mg/kg wet	2.000		56	40-140			
Acenaphthene	1.23	0.40	mg/kg wet	2.000		62	40-140			
Acenaphthylene	1.23	0.20	mg/kg wet	2.000		62	40-140			
Anthracene	1.42	0.40	mg/kg wet	2.000		71	40-140			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ32402 - 3546										
Benzo(a)anthracene	1.57	0.40	mg/kg wet	2.000		78	40-140			
Benzo(a)pyrene	1.69	0.40	mg/kg wet	2.000		84	40-140			
Benzo(b)fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Benzo(g,h,i)perylene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Benzo(k)fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140			
C11-C22 Unadjusted Aromatics1	30.5	15.0	mg/kg wet	34.00		90	40-140			
Chrysene	1.57	0.40	mg/kg wet	2.000		79	40-140			
Dibenzo(a,h)Anthracene	1.70	0.20	mg/kg wet	2.000		85	40-140			
Fluoranthene	1.61	0.40	mg/kg wet	2.000		80	40-140			
Fluorene	1.29	0.40	mg/kg wet	2.000		65	40-140			
Indeno(1,2,3-cd)Pyrene	1.59	0.40	mg/kg wet	2.000		80	40-140			
Naphthalene	1.09	0.40	mg/kg wet	2.000		55	40-140			
Phenanthrene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Pyrene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Surrogate: 2-Bromonaphthalene	*1.61*		mg/kg wet	*2.000*		*81*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.47*		mg/kg wet	*2.000*		*74*	*40-140*			
Surrogate: O-Terphenyl	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	10.9	15.0	mg/kg wet	16.00		68	40-140	0.7	25	
C9-C18 Aliphatics1	8.2	15.0	mg/kg wet	12.00		69	40-140	10	25	
Decane (C10)	0.8	0.5	mg/kg wet	2.000		40	40-140	18	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		82	40-140	0.7	25	
Dodecane (C12)	0.9	0.5	mg/kg wet	2.000		45	40-140	14	25	
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140	1	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.9	25	
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		66	40-140	3	25	
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140	0.7	25	
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140	0.3	25	
Nonane (C9)	0.6	0.5	mg/kg wet	2.000		31	30-140	20	25	
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		82	40-140	0.6	25	
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		75	40-140	0.1	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		82	40-140	1	25	
Tetradecane (C14)	1.1	0.5	mg/kg wet	2.000		53	40-140	11	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		80	40-140	0.4	25	
Surrogate: 1-Chlorooctadecane	*1.44*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.12	0.20	mg/kg wet	2.000		56	40-140	0.4	25	
Acenaphthene	1.29	0.40	mg/kg wet	2.000		64	40-140	5	25	
Acenaphthylene	1.27	0.20	mg/kg wet	2.000		63	40-140	3	25	
Anthracene	1.37	0.40	mg/kg wet	2.000		69	40-140	3	25	
Benzo(a)anthracene	1.56	0.40	mg/kg wet	2.000		78	40-140	0.3	25	

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ32402 - 3546										
Benzo(a)pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140	0.2	25	
Benzo(b)fluoranthene	1.64	0.40	mg/kg wet	2.000		82	40-140	1	25	
Benzo(g,h,i)perylene	1.39	0.40	mg/kg wet	2.000		70	40-140	1	25	
Benzo(k)fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	0	25	
C11-C22 Unadjusted Aromatics1	30.9	15.0	mg/kg wet	34.00		91	40-140	1	25	
Chrysene	1.57	0.40	mg/kg wet	2.000		78	40-140	0.2	25	
Dibenzo(a,h)Anthracene	1.67	0.20	mg/kg wet	2.000		84	40-140	1	25	
Fluoranthene	1.59	0.40	mg/kg wet	2.000		80	40-140	1	25	
Fluorene	1.31	0.40	mg/kg wet	2.000		66	40-140	1	25	
Indeno(1,2,3-cd)Pyrene	1.58	0.40	mg/kg wet	2.000		79	40-140	0.6	25	
Naphthalene	1.08	0.40	mg/kg wet	2.000		54	40-140	1	25	
Phenanthrene	1.47	0.40	mg/kg wet	2.000		74	40-140	0.6	25	
Pyrene	1.61	0.40	mg/kg wet	2.000		80	40-140	2	25	
Surrogate: 2-Bromonaphthalene	*1.73*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.62*		mg/kg wet	*2.000*		*81*	*40-140*			
Surrogate: O-Terphenyl	*1.45*		mg/kg wet	*2.000*		*73*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Batch CJ32834 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.25*		mg/kg wet	*2.000*		*63*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ32834 - 3546										
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*43.7*		mg/L	*50.00*		*87*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.6*		mg/L	*50.00*		*83*	*40-140*			
Surrogate: O-Terphenyl	*1.43*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS										
C19-C36 Aliphatics1	9.9	15.0	mg/kg wet	16.00		62	40-140			
C9-C18 Aliphatics1	8.7	15.0	mg/kg wet	12.00		72	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		50	40-140			
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Dodecane (C12)	0.9	0.5	mg/kg wet	2.000		46	40-140			
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		65	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		76	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		39	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Tetradecane (C14)	1.0	0.5	mg/kg wet	2.000		52	40-140			
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Surrogate: 1-Chlorooctadecane	*1.46*		mg/kg wet	*2.000*		*73*	*40-140*			
LCS										
2-Methylnaphthalene	1.23	0.20	mg/kg wet	2.000		61	40-140			
Acenaphthene	1.31	0.40	mg/kg wet	2.000		66	40-140			
Acenaphthylene	1.34	0.20	mg/kg wet	2.000		67	40-140			
Anthracene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Benzo(a)anthracene	1.49	0.40	mg/kg wet	2.000		75	40-140			
Benzo(a)pyrene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Benzo(b)fluoranthene	1.56	0.40	mg/kg wet	2.000		78	40-140			
Benzo(g,h,i)perylene	1.61	0.40	mg/kg wet	2.000		80	40-140			
Benzo(k)fluoranthene	1.58	0.40	mg/kg wet	2.000		79	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ32834 - 3546										
C11-C22 Unadjusted Aromatics1	28.5	15.0	mg/kg wet	34.00		84	40-140			
Chrysene	1.47	0.40	mg/kg wet	2.000		73	40-140			
Dibenzo(a,h)Anthracene	1.72	0.20	mg/kg wet	2.000		86	40-140			
Fluoranthene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Fluorene	1.40	0.40	mg/kg wet	2.000		70	40-140			
Indeno(1,2,3-cd)Pyrene	1.48	0.40	mg/kg wet	2.000		74	40-140			
Naphthalene	1.16	0.40	mg/kg wet	2.000		58	40-140			
Phenanthrene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Pyrene	1.51	0.40	mg/kg wet	2.000		75	40-140			
Surrogate: 2-Bromonaphthalene	*41.9*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*39.7*		mg/L	*50.00*		*79*	*40-140*			
Surrogate: O-Terphenyl	*1.42*		mg/kg wet	*2.000*		*71*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	9.8	15.0	mg/kg wet	16.00		61	40-140	0.9	25	
C9-C18 Aliphatics1	8.6	15.0	mg/kg wet	12.00		72	40-140	0.5	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		48	40-140	3	25	
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		77	40-140	3	25	
Dodecane (C12)	0.9	0.5	mg/kg wet	2.000		45	40-140	2	25	
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		74	40-140	3	25	
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		77	40-140	3	25	
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		63	40-140	3	25	
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000		77	40-140	3	25	
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		74	40-140	3	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		38	30-140	4	25	
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		77	40-140	4	25	
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140	3	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		78	40-140	3	25	
Tetradecane (C14)	1.0	0.5	mg/kg wet	2.000		52	40-140	0.9	25	
Triacontane (C30)	1.5	0.5	mg/kg wet	2.000		76	40-140	4	25	
Surrogate: 1-Chlorooctadecane	*1.32*		mg/kg wet	*2.000*		*66*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.20	0.20	mg/kg wet	2.000		60	40-140	2	25	
Acenaphthene	1.30	0.40	mg/kg wet	2.000		65	40-140	1	25	
Acenaphthylene	1.32	0.20	mg/kg wet	2.000		66	40-140	1	25	
Anthracene	1.35	0.40	mg/kg wet	2.000		67	40-140	7	25	
Benzo(a)anthracene	1.42	0.40	mg/kg wet	2.000		71	40-140	5	25	
Benzo(a)pyrene	1.57	0.40	mg/kg wet	2.000		78	40-140	6	25	
Benzo(b)fluoranthene	1.50	0.40	mg/kg wet	2.000		75	40-140	4	25	
Benzo(g,h,i)perylene	1.49	0.40	mg/kg wet	2.000		74	40-140	8	25	
Benzo(k)fluoranthene	1.45	0.40	mg/kg wet	2.000		72	40-140	9	25	
C11-C22 Unadjusted Aromatics1	28.2	15.0	mg/kg wet	34.00		83	40-140	1	25	

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CJ32834 - 3546										
Chrysene	1.37	0.40	mg/kg wet	2.000		68	40-140	7	25	
Dibenzo(a,h)Anthracene	1.60	0.20	mg/kg wet	2.000		80	40-140	8	25	
Fluoranthene	1.41	0.40	mg/kg wet	2.000		70	40-140	4	25	
Fluorene	1.34	0.40	mg/kg wet	2.000		67	40-140	5	25	
Indeno(1,2,3-cd)Pyrene	1.38	0.40	mg/kg wet	2.000		69	40-140	7	25	
Naphthalene	1.13	0.40	mg/kg wet	2.000		56	40-140	3	25	
Phenanthrene	1.43	0.40	mg/kg wet	2.000		72	40-140	5	25	
Pyrene	1.43	0.40	mg/kg wet	2.000		72	40-140	5	25	
Surrogate: 2-Bromonaphthalene	*40.5*		mg/L	*50.00*		*81*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*39.8*		mg/L	*50.00*		*80*	*40-140*			
Surrogate: O-Terphenyl	*1.33*		mg/kg wet	*2.000*		*66*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

Notes and Definitions

U	Analyte included in the analysis, but not detected
EL	Elevated Method Reporting Limits due to sample matrix (EL).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Atlantic North Creek
Client Project ID: Hull MA

ESS Laboratory Work Order: 1310496

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Atlantic North Creek
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13100496
Date Project Due: 10/28/13
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **5.7**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? ~~**No**~~ yes
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**

ESS Sample IDs: 02, 03
Sub Lab: CTS
Analysis: Sample Crushing
TAT: ASAP

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP

Completed By: [signature] Date/Time: 10/24/13 1711
Reviewed By: ED Date/Time: 10/24/13 17:22

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time 3:30 Standard Other 2 Days
If faster than 5 days, prior approval by laboratory is required #

Reporting Limits

ESS LAB PROJECT ID 1310496

State where samples were collected from:
MA RI CT NH NJ NY ME Other

Electronic Deliverable Yes X No

Is this project for any of the following:
MA-MCP Navy USACE Other

Format: Excel Access PDF X Other

Co. Name	Project #	Project Name (20 Char. or less)
Atlantic North Creek	Hull MA	

Contact Person	Address
Sean Coakley	92 Merrimac St

City	State	Zip	PO#
Woburn, MA		01801	Box 526

Telephone #	Fax #	Email Address
(617) 908 1328		info@atlanticpowerclean.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	1	CTS Sample Chips	EPH	PCB	RCRA 6 metals
1	10/24/13	3:39			S	compost organic soil blend	1	1	G			X	X	X
2	10/24/13	3:39			SD	3/4 stone from South Shore	1	1	G		X	X	X	X
3	10/24/13	3:39			SD	3/4 stone from P.A Landers	1	1	G		X	X	X	X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only

Seals Intact Yes No NA: [ ] Pickup

Cooler Temp 5.7 bagged ice 10/24 m [ ] Technicians

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-

Sampled by:

Comments: ① Per Client 10/24/13

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/24/13 3:40		10/24 1540		10/24 1700		10/24/13 17:00
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 2 of 2 9/20/13

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1309443

Electronic Deliverable Yes X No ___
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners Corp
Project #:
Project Name (20 Char. or less): Strawberry Hill
Contact Person: Carter Fahy
Address: 1900 Crown Colony Dr. #402
City: Quincy State: MA Zip: 02169 PO#:
Telephone #: 617-657-0200 Fax #: Email Address: ccf@envpartners.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB	RCRA8	EPH	TCLP	Pb
11	9-19-13	1330			S	40A	1	1	G	X				
12		1330				40B	1	1	G	X				
13		1500				41A	1	1	G	X				
14		1500				41B	1	1	G	X				
15		1503				42A	1	1	G	X				
16		1503				42B	1	1	G	X				
17		1535				18A	1	1	G	X				
18		1537				19A	1	1	G	X				
19		1541				20A *	1	2	G	X	X	X	X	X
20		1545				21A	1	1	G	X				

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 1.6+1.3 Ice+Ice Packs KH
Internal Use Only [✓] Pickup [ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
Sampled by: Stephen Gabriel
Comments: @LL VOCs frozen 9/20/13 @ 2000 per

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
DBN	9/20/13 1pm	[signature]	9-20-13 13:00	[signature]	9-20-13 16:30	[signature]	9/20/13 2100
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

21 - Trip Blank 9/20/13

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1311503

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 12:45 pm, Dec 05, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311503

SAMPLE RECEIPT

The following samples were received on November 26, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1311503-01	Mustang	Wipe	8082
1311503-02	Case	Wipe	8082
1311503-03	V28	Wipe	8082
1311503-04	V357	Wipe	8082
1311503-05	V34	Wipe	8082
1311503-06	V303	Wipe	8082
1311503-07	APC Small	Wipe	8082
1311503-08	APC Large	Wipe	8082

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311503

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311503

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311503

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1311503-01 through 1311503-08**

Matrices: ( ) Ground Water/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air (X) Other: Wipe

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: December 05, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Mustang
Date Sampled: 11/26/13 12:05
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-01
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 12:34		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 12:34		CK32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*105 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Case
Date Sampled: 11/26/13 12:25
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-02
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 12:52		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 12:52		CK32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*105 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: V28
Date Sampled: 11/26/13 12:35
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-03
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 13:11		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 13:11		CK32706

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*102 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: V357
Date Sampled: 11/26/13 12:40
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-04
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 13:30		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 13:30		CK32706

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: V34
Date Sampled: 11/26/13 12:45
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-05
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 13:49		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 13:49		CK32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*113 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*111 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: V303
Date Sampled: 11/26/13 12:50
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-06
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 14:08		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 14:08		CK32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*110 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*100 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: APC Small
Date Sampled: 11/26/13 12:57
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-07
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 14:27		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 14:27		CK32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*111 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*106 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: APC Large
Date Sampled: 11/26/13 13:00
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1311503
ESS Laboratory Sample ID: 1311503-08
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 11/27/13 18:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1221	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1232	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1242	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1248	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1254	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1260	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1262	ND (1.00)		8082		1	11/30/13 14:46		CK32706
Aroclor 1268	ND (1.00)		8082		1	11/30/13 14:46		CK32706

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*110 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*105 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311503

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CK32706 - 3540C										
Blank										
Aroclor 1016	ND	1.00	ug/Wipe							
Aroclor 1221	ND	1.00	ug/Wipe							
Aroclor 1232	ND	1.00	ug/Wipe							
Aroclor 1242	ND	1.00	ug/Wipe							
Aroclor 1248	ND	1.00	ug/Wipe							
Aroclor 1254	ND	1.00	ug/Wipe							
Aroclor 1260	ND	1.00	ug/Wipe							
Aroclor 1262	ND	1.00	ug/Wipe							
Aroclor 1268	ND	1.00	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.372*		ug/Wipe	*0.5000*		*74*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.365*		ug/Wipe	*0.5000*		*73*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.408*		ug/Wipe	*0.5000*		*82*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.426*		ug/Wipe	*0.5000*		*85*	*30-150*			
LCS										
Aroclor 1016	12.1	1.00	ug/Wipe	10.00		121	40-140			
Aroclor 1260	11.0	1.00	ug/Wipe	10.00		110	40-140			
Surrogate: Decachlorobiphenyl	*0.388*		ug/Wipe	*0.5000*		*78*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.365*		ug/Wipe	*0.5000*		*73*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.467*		ug/Wipe	*0.5000*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.449*		ug/Wipe	*0.5000*		*90*	*30-150*			
LCS Dup										
Aroclor 1016	11.8	1.00	ug/Wipe	10.00		118	40-140	3	50	
Aroclor 1260	11.0	1.00	ug/Wipe	10.00		110	40-140	0.5	50	
Surrogate: Decachlorobiphenyl	*0.397*		ug/Wipe	*0.5000*		*79*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.390*		ug/Wipe	*0.5000*		*78*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.458*		ug/Wipe	*0.5000*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.439*		ug/Wipe	*0.5000*		*88*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1311503

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1311503

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13110503
Date Project Due: 12/3/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **0.3**		16. Are ESS labels on correct containers?	Yes | No
Iced With: **Ice**		17. Were samples received intact?	Yes | No
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	Hexane
2	Yes	2 oz Soil Jar	1	Hexane
3	Yes	2 oz Soil Jar	1	Hexane
4	Yes	2 oz Soil Jar	1	Hexane
5	Yes	2 oz Soil Jar	1	Hexane
6	Yes	2 oz Soil Jar	1	Hexane
7	Yes	2 oz Soil Jar	1	Hexane
8	Yes	2 oz Soil Jar	1	Hexane

Completed By: _____ Date/Time: 11/26/13 1608
Reviewed By: _____ Date/Time: 11/26/13 1625

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 1311503

Electronic Deliverable Yes X No ____
Format: Excel X Access ___ PDF X Other _____

Co. Name: Environmental Partners
1900 Crown Colony
Suite 402
Quincy, MA 02169

Project #

Project Name (20 Char. or less): Strawberry Hill

Contact Person: Carter Fahy

Address

City

State

Zip

PO#

Telephone #: 617-657-0200

Fax #

Email Address: cct@envpartners.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	11-26-13	1205			W	Mustang	9	1	G	X
2		1225			W	Case	9	1	G	X
3		1235			W	V28	9	1	G	X
4		1240			W	V357	9	1	G	X
5		1245			W	V34	9	1	G	X
6		1250			W	V303	9	1	G	X
7		1257			W	APC small	9	1	G	X
8		1300			W	APC Large	9	1	G	X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 0.3 ICE KH

Internal Use Only
[✓] Pickup
[ ] Technicians _____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- Hexane

Sampled by: Stephen Gabriel

Comments: Hexane preserved wipes, used square template

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	11/26/13 1:55	[signature]	11-26-13 13:55	[signature]	11-26-13 15:52	[signature]	11/26/13 1604
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

CERTIFICATE OF ANALYSIS

C. Carter Fahy, P.E., LSP, CHMM
Environmental Partners Group
1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

RE: Strawberry Hill (N/A)
ESS Laboratory Work Order Number: 1312132

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:16 pm, Dec 13, 2013

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibratins, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1312132

SAMPLE RECEIPT

The following samples were received on December 06, 2013 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1312132-01	V28	Wipe	8082
1312132-02	V34	Wipe	8082
1312132-03	Bobcat	Wipe	8082

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1312132

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1312132

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1312132

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1312132-01 through 1312132-03**

Matrices: ( ) Ground Water/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air (X) Other: Wipe

CAM Protocol (check all that apply below):

( ) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH CAM IV A	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) 8330 Explosives CAM VIII A	( ) TO-15 VOC CAM IX B
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	(X) 8082 PCB CAM V A	( ) 6860 Perchlorate CAM VIII B	( ) 9014 Total Cyanide/PAC CAM VI A	

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (X) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (X) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (X) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ( )
E	a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (X) No ( )

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (X) No ( )*
	Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.***	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (X) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes (X) No ( )*

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____ Date: December 13, 2013

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: V28
Date Sampled: 12/06/13 11:25
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1312132
ESS Laboratory Sample ID: 1312132-01
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 12/6/13 17:01

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1221	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1232	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1242	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1248	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1254	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1260	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1262	ND (1.00)		8082		1	12/07/13 10:37		CL30503
Aroclor 1268	ND (1.00)		8082		1	12/07/13 10:37		CL30503

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*107 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: V34
Date Sampled: 12/06/13 11:30
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1312132
ESS Laboratory Sample ID: 1312132-02
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 12/6/13 17:01

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1221	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1232	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1242	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1248	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1254	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1260	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1262	ND (1.00)		8082		1	12/07/13 10:56		CL30503
Aroclor 1268	ND (1.00)		8082		1	12/07/13 10:56		CL30503

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*114 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*117 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
Client Sample ID: Bobcat
Date Sampled: 12/06/13 11:45
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1312132
ESS Laboratory Sample ID: 1312132-03
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: SEP
Prepared: 12/6/13 17:01

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1221	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1232	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1242	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1248	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1254	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1260	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1262	ND (1.00)		8082		1	12/07/13 11:15		CL30503
Aroclor 1268	ND (1.00)		8082		1	12/07/13 11:15		CL30503

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*103 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*119 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*117 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1312132

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CL30503 - 3540C										
Blank										
Aroclor 1016	ND	1.00	ug/Wipe							
Aroclor 1221	ND	1.00	ug/Wipe							
Aroclor 1232	ND	1.00	ug/Wipe							
Aroclor 1242	ND	1.00	ug/Wipe							
Aroclor 1248	ND	1.00	ug/Wipe							
Aroclor 1254	ND	1.00	ug/Wipe							
Aroclor 1260	ND	1.00	ug/Wipe							
Aroclor 1262	ND	1.00	ug/Wipe							
Aroclor 1268	ND	1.00	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.317*		ug/Wipe	*0.5000*		*63*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.295*		ug/Wipe	*0.5000*		*59*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.384*		ug/Wipe	*0.5000*		*77*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.407*		ug/Wipe	*0.5000*		*81*	*30-150*			
LCS										
Aroclor 1016	10.3	1.00	ug/Wipe	10.00		103	40-140			
Aroclor 1260	9.51	1.00	ug/Wipe	10.00		95	40-140			
Surrogate: Decachlorobiphenyl	*0.448*		ug/Wipe	*0.5000*		*90*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.429*		ug/Wipe	*0.5000*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.475*		ug/Wipe	*0.5000*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.478*		ug/Wipe	*0.5000*		*96*	*30-150*			
LCS Dup										
Aroclor 1016	10.3	1.00	ug/Wipe	10.00		103	40-140	0.3	50	
Aroclor 1260	9.42	1.00	ug/Wipe	10.00		94	40-140	0.9	50	
Surrogate: Decachlorobiphenyl	*0.430*		ug/Wipe	*0.5000*		*86*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.407*		ug/Wipe	*0.5000*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.458*		ug/Wipe	*0.5000*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.459*		ug/Wipe	*0.5000*		*92*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill
ESS Laboratory Work Order: 1312132

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Environmental Partners Group
Client Project ID: Strawberry Hill

ESS Laboratory Work Order: 1312132

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Enviornmental partners group
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13120132
Date Project Due: 12/13/13
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **3.4**
   Iced With: **Ice**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
2	Yes	2 oz Soil Jar	1	NP
3	Yes	2 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 12/6/13 1620
Reviewed By: _____ Date/Time: 12/6/13 16:32

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA RI CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 131232

Electronic Deliverable Yes X No ____
Format: Excel X Access ____ PDF X Other ____

Co. Name: Environmental Partners, 1900 Crown Colony, Suite 402, Quincy, MA 02169

Project #

Project Name (20 Char. or less): Strawberry Hill

Contact Person: Carter Fahy

City ____ State ____ Zip ____

PO# ____

Telephone #: 617-657-0200

Fax # ____

Email Address: ccf@envpartners.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PCB
1	12-6-13	11:25			W	V-28	9	1	G	X
2	12-6-13	11:30			W	V-34	9	1	G	X
3	12-6-13	11:45			W	Bobcat	9	1	G	X

Write Required Analysis

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 3.4 ICE Kit

Internal Use Only
[✓] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HC1, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- Hexane

Sampled by: Stephen Gabriel

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	12-6-13 1:30			COLER	12-6-13 14:27	[signature]	12-6-13 14:27
[signature]	12-6-13 16:10	[signature]	12/6/13 1615				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

Environmental Partners GROUP
A partnership for engineering solutions.

January 22, 2014

Mr. & Mrs. Paul Peaslee
37 Prospect Avenue
Hull, MA 02045

RE: Class A-2 Response Action Outcome
37 Prospect Avenue
RTN 4-24815

Dear Mr. & Mrs. Peaslee:

Enclosed is a Class A-2 Response Action Outcome (RAO) Statement which documents the remedial activities which occurred on your property and closes out the site in the DEP's hazardous waste site database. An IRA Completion Report was previously submitted for the site in December, 2013. The RAO statement is very similar to the IRA Completion Report; however, it also includes documentation of the off-site disposal of the PCB-impacted soil and debris. This report has also been filed with the Massachusetts Department of Environmental Protection (DEP) Southeast Regional Office.

Should you have any questions, please do not hesitate to call me.

Sincerely,

C. Carter Fahy, P.E., LSP
Project Manager

Encl: Class A-2 RAO Report

Cc: Blake Lukis, Aquarion Water Company

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

4 - 24815

INFORMATIONAL NOTICE TO PROPERTY OWNERS

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: 37 Prospect Avenue

2. City/Town: Hull 3. ZIP Code: 02045-0000

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Mr. & Mrs. Peaslee

2. Address of Property For Which This Notice is Being Provided Owned by Property Owner named in B1:

a. Street Address: 37 Prospect Avenue

b. City/Town: Hull c. ZIP Code: 02045-0000

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☑ 2. Upon Submittal of a Response Action Outcome (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material <u>is not</u> Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

AFFECTED ENVIRONMENTAL MEDIA	PRINCIPAL CHEMICAL(S) PRESENT
☑ 1. Soil	PCB's
☐ 2. Groundwater	
☐ 3. Surface Water	
☐ 4. Sediment	
☐ 5. Indoor Air	
☐ 6. Other: _____ (specify)	

E. ATTACHMENTS PROVIDED WITH THIS NOTICE. AS REQUIRED BY 310 CMR 40.1406:

- ☑ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous is or is likely to be Present.
- ☑ 2. A Copy of the Phase II Completion Site Assessment or Response Action Outcome Conclusions.

F. CONTACT INFORMATION RELATED TO THE PARTY PROVIDING THIS NOTICE:

1. Contact Name: Blake Lukis 2. Street: 900 Main Street

3. City/Town: Hingham 4. State: MA 5. ZIP Code: 02043-0000

6. Telephone: (781) 740-6694 7. Email: blukis@aquarionwater.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

4 - 24815

INFORMATIONAL NOTICE TO PROPERTY OWNERS

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not, as previously suspected, present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report **(Section E).** These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/dep/cleanup/oview.htm.

For more information regarding this notice, you may contact the party listed in **Section F** on the reverse side of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See http://mass.gov/dep/about/region/schedule.htm if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

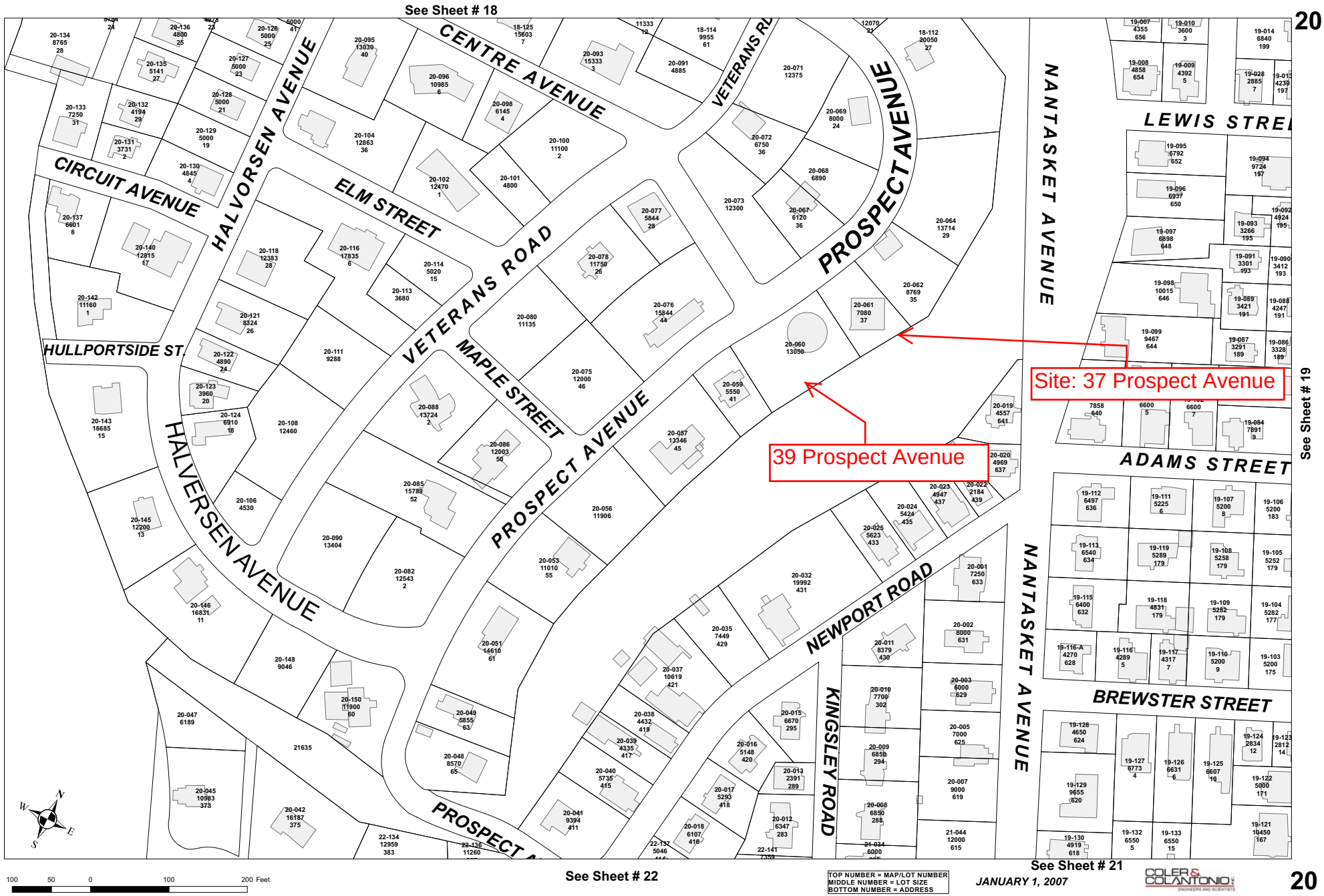

Figure 1: Site Map
RTN 4-24815

Environmental Partners GROUP
A partnership for engineering solutions.

January 22, 2014

Philip E. Lemnios, Town Manager
Town Hall
235 Atlantic Avenue
Hull, MA 02045

RE: 37 Prospect Avenue
RTN 4-24815
Class A-2 Response Action Outcome

Dear Mr. Lemnios:

Please be advised that, for the above-referenced site, a Class A-2 Response Action Outcome (RAO) Report has been filed with the Massachusetts Department of Environmental Protection (DEP) Southeast Regional Office. This letter is in accordance with the Massachusetts Contingency Plan public notification requirements defined by 310 CMR 40.1403(3)(f). The report details the excavation and off-site disposal of approximately 100 cubic yards of PCB-impacted soils at 37 Prospect Avenue. The excavation was backfilled with clean soil and seeded. No further actions are planned/required at the site.

The report is available for your review at our office and at the DEP Southeast Regional Office at 20 Riverside Drive, Lakeville, MA. Should you have any questions, please do not hesitate to call me.

Sincerely,

C. Carter Fahy, P.E., LSP
Project Manager

Cc: Ms. Joyce Sullivan, Hull Public Health Director
Blake Lukis, Aquarion Water Company